

Value Added Course Report

**Machine Learning with Scikit-
Learn, Keras and Tensorflow**

21.02.2022 – 26.02.2022



(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)
S.P.G.Chidambara Nadar - C.Nagammal Campus

S.P.G.C. Nagar, K.Vellakulam - 625 701 (Near VIRUDHUNAGAR).

Guidelines for Value-Added Courses:

1. Academic Year : 2021 - 2022
2. Regulation : R2020
3. Department Name : Computer Science and Engineering
4. Name of the Value-added course : Machine Learning with Scikit-Learn, Keras and Tensorflow
5. No. of Credits : 2
6. Category : ~~Theory/Lab/Hands-on/Skill based etc~~
7. Name and Details of the Joint-organization (industry/NGO etc) if any : Quantanics TechServ Pvt. Ltd., Madurai.
8. Resource person details : Mr.Farhadh Manaz & Mr.K.Vasanth,
Junior AI Developer,
Quantanics TechServ Pvt. Ltd., Madurai
9. Three Member Committee details : Dr.R.Muthuselvi, Dr.G.Nirmala,
Dr.P.Praveen Kumar
10. VAC Coordinator Details : Dr.P.Praveen Kumar Dr.R.Ramya
11. Duration (30 h mandatory) : 42 Hours
12. Period (From-To) : 21.02.2022 to 26.02.2022
13. Venue : Artificial Intelligence and IoT Lab

Guidelines / Assessment of VAC:

1. Internal 40 Marks. Preferably Assignments such as mini projects, presentations, worksheets, etc.
2. External 60 Marks. MCQs type.
MCQs Type question paper pattern : Part A - 30 x 1 = 30 Marks
Part B - 15 x 2 = 30 Marks
Total (IM + EM): 100 Marks
Passing Criteria: 50 Marks
No revaluation and no re-exam will be entertained.
3. Mode of External Exam: Online proctored mode
4. Duration of the Exam: 1 h 30 min


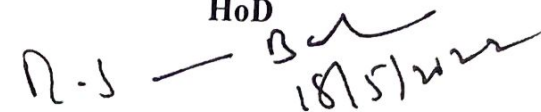
Mark Statement

Department: CSE
Year: II

Regulation: 2020
Semester: IV

Sl.No.	Roll No.	Reg. No.	Student Name	Internal Marks (40)	External Marks (60)	Total (100)
1	20UAD008	920420UAD008	SHRIDHARAN.R.B	32	49	81
2	20UAD013	920420UAD013	VIGNESWARAN.R.K	32	48	80
3	20UAD021	920420UAD021	PREMKUMAR.G	32	41	73
4	20UAD023	920420UAD023	YUVA SIVASAKTHI.G	36	49	85
5	20UAD024	920420UAD024	SHRI RAJESHWARAN.M	35	47	82
6	20UAD026	920420UAD026	TILAK.N.G	35	49	84
7	20UAD028	920420UAD028	JEEVITHARAJ.D	36	43	79
8	20UAD029	920420UAD029	KIPSON.A.J	32	48	80
9	20UAD032	920420UAD032	DHARSHINI.V	36	49	85
10	20UAD035	920420UAD035	RAGESH.M	32	47	79
11	20UAD037	920420UAD037	DHARESH KUMAR.N.S	37	49	86
12	20UAD040	920420UAD040	SURYA.A	35	47	82
13	20UAD042	920420UAD042	JEEVARAJAN.R	37	49	86
14	20UAD046	920420UAD046	GEORGE JERING.T	32	46	78
15	20UCS002	920420UCS002	SAJIYA BEGUM.A	35	37	72
16	20UCS009	920420UCS009	SRIMATHI.S	35	41	76
17	20UCS010	920420UCS010	BAVA DHARANI.B	36	54	90
18	20UCS017	920420UCS017	VARUN.B	37	49	86
19	20UCS036	920420UCS036	GIRIVASAN.S.V	36	41	77
20	20UCS039	920420UCS039	SABARI KANTH.A	33	28	61
21	20UCS048	920420UCS048	VENKATESH KANNAN.M.S	37	38	75
22	20UCS060	920420UCS060	SAHANARINI.S	36	46	82
23	20UCS070	920420UCS070	SANTHIYA.E	35	50	85
24	20UCS079	920420UCS079	MALAIAPPAN SRIKANTH.S	36	48	84
25	20UCS082	920420UCS082	BASIL TAMIL SELVAN.E	37	45	82
26	20UCS095	920420UCS095	SARVASH.S.S	37	42	79
27	20UCS104	920420UCS104	YASHWANT RAM.G.A	37	45	82
28	20UCS111	920420UCS111	GAJENDRAN.R	33	43	76
29	20UCS112	920420UCS112	ASHWATHKUMAR.S.S	33	43	76


VAC Coordinator


HoD

Dean (Academic Courses)

Encl:

1. Institution Approval Copy
2. Circular
3. Syllabus Copy with Course outcomes
4. BoS Approval

KAMARAJ

COLLEGE OF ENGINEERING & TECHNOLOGY



S.P.G.Chidambara Nadar - C. Nagammal Campus,
S.P.G.C. Nagar, K. Vellakulam - 625 701, Near VIRUDHUNAGAR, Madurai District.
Accredited by NAAC with 'A' Grade

Submitted to the SECRETARY for approval through the PRINCIPAL

Book No.

CSE

SL No. **93**

Date 19/02/2022

- 1) Name of the object / item / service : * Approval may please be granted to conduct Value Added Course on Machine Learning with Serials for Keras & Tensorflow (Minimum 30 Sl)
- 2) Purpose (Replacement / upgradation / New) : or (Participation / Presentation) or (Service / Renewal / New) * To gain hands on skill on Machine Learning
- 3) Specifications : * 45 hours, from 21/02/22 to 26/02/22
- 4) Approx. Value per object / item (Min. Quote / Reasons for Higher Quote) : * Course for 3 cse/it eng interested stud
- 5) No. of Quotations Received : 1 - Quantarics Techno Pvt Ltd
- 6) No. / Type of objects / items / service needed : 1000 ~~1000~~ 101957 for each student (after negotiation)
- 7) Total Value (incl. tax) : 101957 Quotation

Murali
HOD

[Signature]
PRINCIPAL

Signature of Faculty

OFFICE USE

- 1) Budget allotted : Fees for course including N
- 2) Amount committed / Spent sofar : Arrange the Quantarics Techno
- 3) Balance available : Company Payment to meet Secretary

[Signature]

OM
U/v

TREASURER

[Signature]

Secretary

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Ref: KCET/CSE/EVEN/2021-22

16.2.2022

Circular

The Department of Computer Science and Engineering is organizing Value added courses associated with industries for second year B.E-CSE and B.Tech-ADS during 21.2.2022 to 26.2.2022 and for third year B.E-CSE students during 14.03.2022 to 29.03.2022.

Objective:

- To build technical skill of the students.

Course Outcome:

- Able to enhance the technical knowledge through which the students to fine-tune their career prospect, improve preparedness for campus placement & gain competitive edge.

The following venues are fixed for the conduct of Value Added Courses:

S.No	Name of the course	Venue	Class	Dates
1	Red Hat Linux certified system administration	Programming lab	II CSE & ADS	21.2.2022 - 26.2.2022
2	Spring BOOT	Network and Security Lab	II CSE & ADS	21.2.2022 - 26.2.2022
3	Machine Learning with Scikit-Learn, Keras & Tensorflow	IOT Lab	II CSE & ADS	21.2.2022 - 26.2.2022
4	Django Framework	Modern Application Development lab	II CSE & ADS	21.2.2022 - 26.2.2022
5	AWS cloud	Modern Application Lab	III CSE	14.03.2022, 15.03.2022, 18.03.2022, 19.03.2022, 28.03.2022 and 29.03.2022
6	Flutter	IOS Lab	III CSE	14.03.2022, 15.03.2022, 18.03.2022, 19.03.2022, 28.03.2022 and 29.03.2022
7	Fundamentals of Block Chain and Crypto currency	IOT Lab	III CSE	14.03.2022, 15.03.2022, 18.03.2022, 19.03.2022, 28.03.2022 and 29.03.2022


 Value Added Course- Coordinator


 HoD-CSE

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Value Added Course on "Machine Learning with Scikit-Learn, Keras and Tensorflow"

21.02.2022 to 26.02.2022

Machine Learning with Scikit-Learn, Keras and Tensorflow

42 HOURS

Objectives

- To understand the basic theory underlying machine learning and artificial intelligence.
- To formulate machine learning problems corresponding to different applications
- To make use of Jetson Nano for model selection, tuning parameters, collection and processing Datasets.
- To acquire knowledge about the utilization of Jetson nano, Deep learning models and video processing techniques in real time.
- To acquire knowledge about the utilization of Jetson nano, Deep learning models and audio processing techniques in real time.
- To be able to apply machine learning algorithms to solve problems of moderate complexity.

UNIT 1: GETTING START WITH AI

(7)

What is Artificial Intelligence – Datasets – Data Science - Machine Learning walkthrough – Learning types – How to use google Colaboratory – Python Packages – Numpy, Pandas, Matplotlib - Neural Networks – Deep Learning

UNIT 2: PYTHON PACKAGES AND MACHINE LEARNING TECHNIQUES (7)

Detection – Classification – Segmentation – Estimation – AI Real-world applications - Python Packages – Scikit-Learn, Keras - Regression algorithms (Linear regression, Multi Linear regression, Logistic regression) – Ideas related to projects in Regression.

UNIT 3: MODEL GENERATION AND INTRODUCTION TO JETSON NANO(7)

Classification algorithms - Clustering algorithms – Training the Model / Model Generation using regression, classification, clustering - Ideas related to projects in Classification and Clustering - Introduction to Jetson Nano – Basic Configurations - How to collect bulk images – How to annotate the images – Setting up examples in Jetson Nano.

UNIT 4: OBJECT DETECTION & VIDEO CLASSIFICATION

(7)

Image Detection in Jetson Nano – Digit Recognition – Face Detection – Color Picker and Color Detection – Eye Detection – Driver Drowsiness Detection – Deployment / Inference using generated regression, classification, and clustering models in Jetson nano - Video Classification using colab.

UNIT 5: REAL TIME PROCESS IN AUDIO ANALYTICS

(7)

TensorFlow – Setting up TensorFlow – Loss Functions – Epochs – Object detection using TensorFlow – Speech Recognition – Speech recognition-based guessing game – Basic Personal Voice Assistance – Audio Classification – Problem statement for team.

UNIT 6: REAL TIME PROJECTS

(7)

Real time projects in Classification, Clustering, Regression, Object Identification and Anomaly detection - Delivery and presenting own projects by teams – Evaluation of projects – Doubts and discussions – Assessment.

OUTCOMES

At the end of the course, the students will be able to

- CO1: Explain Artificial Intelligence architectures and figure out the problems regarding Computer Vision.
- CO2: Illustrate different machine learning problems corresponding to different applications.
- CO3: Make use of Jetson Nano for Model selection, tuning parameters, collection and processing datasets in real time.
- CO4: Apply the concepts of Deep learning models for video processing using Jetson nano in real time.
- CO5: Apply the concepts of Deep learning models for audio processing using Jetson nano in real time.
- CO6: Apply the algorithms to a real-world problem by optimizing the models learned and report on the expected accuracy that can be achieved by applying the models.



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Department of Computer Science and Engineering

VALUE ADDED COURSES - Minutes

Value Addition Courses are very important to bridge the gap between the academic and industry needs. These courses which help a particular individual to develop their own skills in their chosen field of the study are conducted by professionals and industry experts. They help students stand apart from the rest in the job market by adding further value to their resume.

A meeting was conducted on 02.02.2022 at 10.30am in Visual Computing Lab to discuss the various points about Value Added Courses.

I.Members present:

1. Dr.A.Meenakshi, Head & Associate Professor *M. Meenakshi*
2. Value Added Committee Members
 - a. Dr.R.Muthuselvi, P-CSE & Chairperson II ADS *R. Muthuselvi*
 - b. Dr.P.Praveen Kumar, AP-CSE & Chairperson II CSE A *P. Praveen Kumar*
 - c. Dr.G.Nirmala, AP-CSE & Chairperson II CSE B *G. Nirmala*
3. Chairpersons
 - a. Dr.M.Indra Devi, P-CSE & Chairperson III CSE A *M. Indra Devi*
 - b. Mr.B.Muhtukrishnavinayagam, AP-CSE & Chairperson III CSE B *B. Muhtukrishnavinayagam*
 - c. Dr.R.Ramya, AP-CSE & Chairperson IV CSE A *R. Ramya*
 - d. Dr.A.Anandh, Associate Professor & Chairperson IV CSE B *A. Anandh*

II.Agenda

1. Guide lines for VAC
2. Staff members' domain interest and Students options
3. Identification of value added courses and industries
4. Fixing the venue and dates

III.Minutes

1. Guidelines of VAC are discussed.

- The students may optionally undergo value added courses offered by experts from industry / other institutions (Academic / Research) / institution faculty on specialized topics.
- Every 15 period course will be given 1 credit.
- If the value added course is a Theory, then the contact hours in a day shall not exceed four periods.
- The courses shall be conducted without affecting the regular academic schedule.

- Candidates can complete such courses during 3rd to 8th semesters as and when these courses are offered by departments.
- A candidate will also be permitted to register such course offered by other departments.
- The Department / Course in-charge / Faculty / Expert concerned shall conduct one assessment at the end of the course
- The Head of the Department shall form a committee to monitor the progress of the course.
- Candidates can take a maximum of two one-credit courses / one two- credit course during an academic year if offered.
- Credits earned under this category will be over and above the total credit requirement as prescribed in the Employability Enhancement Courses category excluding the actual credits required for project works.

2. Staff members' domain interest and Students options are obtained.

- Staff members' domain interests are obtained and various courses are suggested. Options from II and III year students are obtained based on the suggestion.

3. Value added courses and industries are identified.

The following industries are identified to conduct the courses

S.NO	COURSES OFFERED	NAME OF THE COMPANY
1	Redhat Linux	School of Linux, Madurai
2	Machine Learning with Scikit-Learn, Keras and Tensorflow	Quantanics TechServ Pvt. Ltd., Madurai.
3	Spring Boot	Silicon Software Services, Chennai
4	Django Framework	Lamdatech Softics, Virudhunagar
5	AWS cloud	School of Linux Madurai
6	Flutter	Networkz Systems, Madurai
7	Fundamentals of Block Chain and Cryptocurrency	Incriz Techlutions LLP, Chennai

4. Fixing the venues and dates

The following venues are fixed for the conduct of Value Added Courses

S.No	Name of the course	Venue	Class	Dates
1	Red Hat Linux certified system administration	Programming lab	II CSE & ADS	21.2.2022 - 26.2.2022
2	Spring BOOT	Network and Security Lab	II CSE & ADS	21.2.2022 - 26.2.2022
3	Machine Learning with Scikit-Learn, Keras & Tensorflow	IOT Lab	II CSE & ADS	21.2.2022 - 26.2.2022
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7	Fundamentals of Block Chain and Crypto currency	IOT Lab	III CSE	14.03.2022, 15.03.2022, 18.03.2022, 19.03.2022, 28.03.2022 and 29.03.2022



Value Added Course- Coordinator



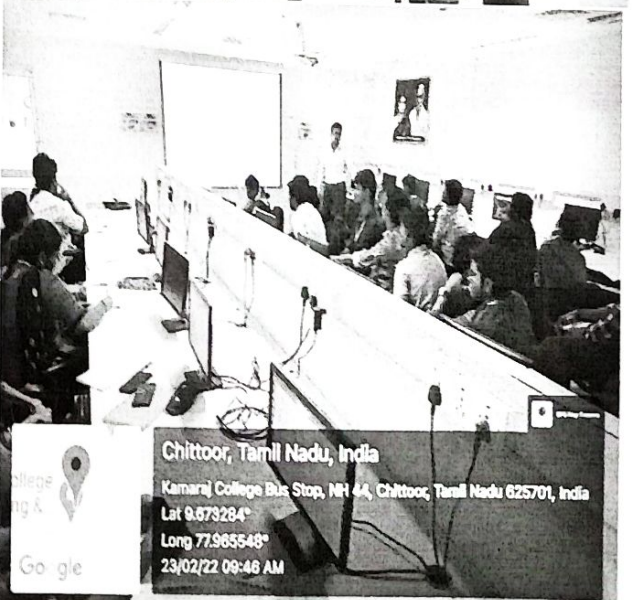
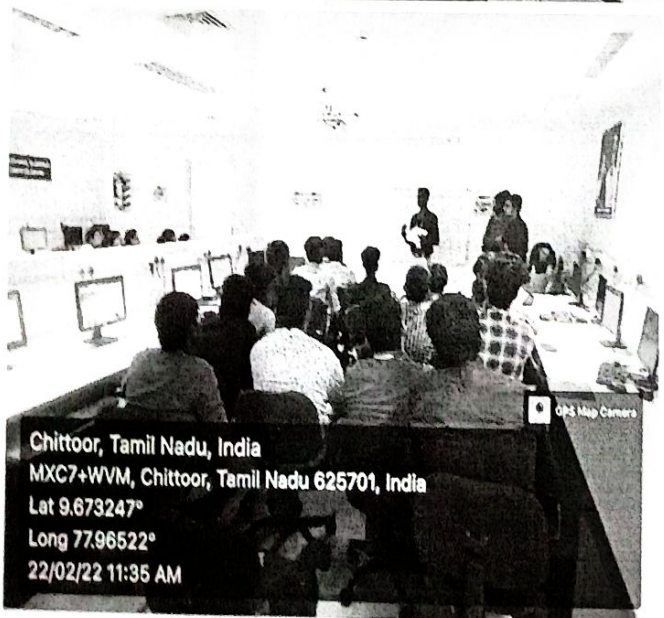
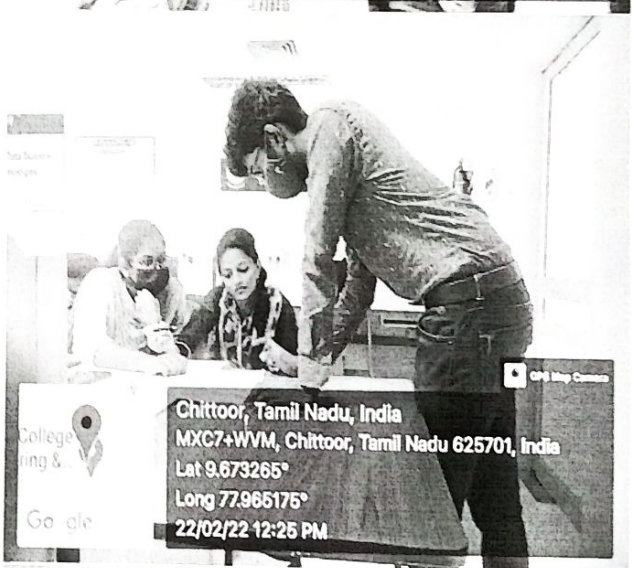
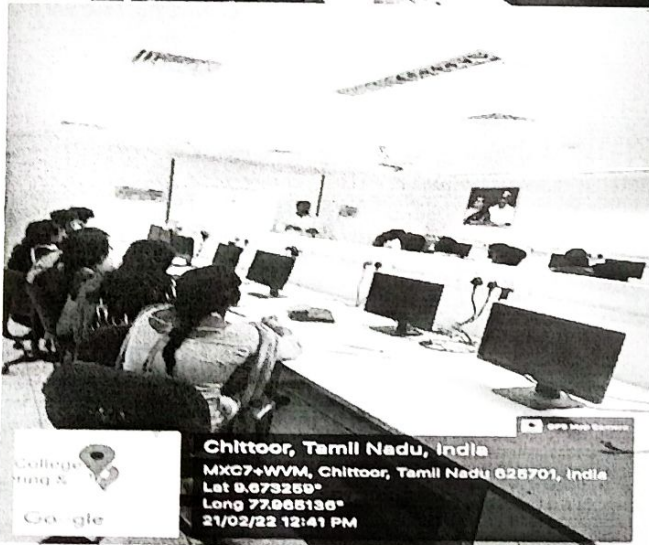
HoD-CSE

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Value Added Course on "Machine Learning with Scikit-Learn, Keras and Tensorflow"

21.02.2022 to 26.02.2022

Resource Person : Mr.Farhadh Manaz & Mr.K.Vasanth,
Junior AI Developer, Quantanics TechServ Pvt. Ltd., Madurai.





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MXC7+WVM, Madurai, 625701, India
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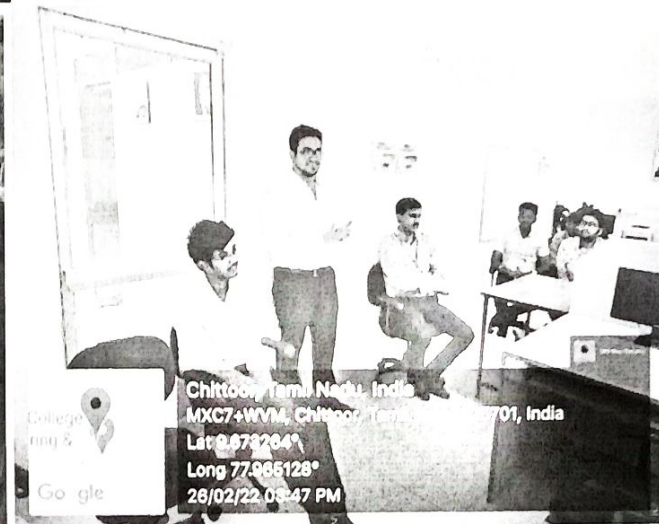
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Quantanics TechServ Pvt Ltd
Madurai



Course Completion Certificate

This is to certify that Mr. / Ms. VIGINESWARAN-R.K
has attended the Value Added Course offered by **Quantanics
TechServ Pvt. Ltd**, Madurai on **Machine Learning with Scikit-Learn,
Keras and Tensorflow** from **21.02.2022 to 26.02.2022** in association
with the Department of Computer Science and Engineering, Kamaraj
College of Engineering and Technology, near Virudhunagar.

Assessment Marks: 80 %

A. Keravan
Director

[Signature]
Coordinator (s)

[Signature]
HoD - CSE


[Signature]
Principal

Department of Computer Science and Engineering

VALUE ADDED COURSES- EXAM SCHEDULE

The Value Added Courses test is planned to conduct from 16.3.2022 - 25.4.2022

S.NO	DATE	COURSE NAME
1	16.3.2022 (6.30 P.M-8.30 P.M)	Redhat Linux
2	16.3.2022 (7 P.M-8.30 P.M)	Machine Learning with Scikit-Learn, Keras and Tensorflow
3	17.3.2022 (7 P.M-8.30P.M)	Spring Boot
4	17.3.2022 (6 PM-7.30 PM)	Django Framework
5	23.4.2022(7 P.M-8.30 P.M)	Flutter
6	19.4.2022 (7 P.M-8.30 P.M)	Fundamentals of Block Chain and Crypto currency
7	25.4.2022 (7 P.M-8.30 P.M)	AWS cloud


Value Added Course- Coordinator


HoD-CSE

Machine Learning with Scikit-Learn, Keras & Tensorflow - Assessment - 16.03.2022

Organised by the Department of CSE in association with Quantanics TechServ Pvt Ltd.

* Required

* This form will record your name, please fill your name.

PART A

30 * 1 Mark = 30 Marks

1

What is generated in convolutional layer of a CNN ? *
(1 Point)

- A. Feature detector
- B. Feature Map
- C. Feature Matrix
- D. Featured image

2

Machine Learning is a subset of *
(1 Point)

- Artificial Intelligence
- Deep Learning
- Reinforcement Learning
- Data Science

3

PyTorch belongs to *
(1 Point)

- A. Google
- B. Microsoft
- C. Facebook
- D. Nvidia

4

What is the most significant phase in a genetic algorithm?
*
(1 Point)

- Selection
- Mutation
- Crossover
- Fitness function

5

Why engine files are built during Inferencing a model ? *
(1 Point)

- A. To get a good frame rate
- B. To get good accuracy
- C. To optimize the model for the system requirements
- D. All of the above

6

State true or false: PCA can be used for dimensionality reduction. *
(1 Point)

- A. True
- B. False

7

Which one of the following is not a Deep learning model *
(1 Point)

- A. Mobilenet
- B. VGG - 16
- C. Inception
- D. Tenet - 19

8

Which one of the following is a regression task? *
(1 Point)

- Predict the age of a person
- Predict the country from where the person comes from
- Predict whether the price of petroleum will increase tomorrow
- Predict whether a document is related to science

9

What is "Classification" in Machine Learning? *
(1 Point)

- A.Mapping a group of inputs to discrete outputs
- B.Classifying an input to a given set of categories
- C.Predicting labels for input images
- D.All of the above

10

How to print "Hello World" in Python? *
(1 Point)

- A.Echo "Hello World"
- B.print("Hello World")
- C.p("Hello World")
- D.echo("Hello

11

Which is a categorical feature? *
(1 Point)

- Weight of a person
- Price of a book
- Medium of study
- Temperature in a place

12

What is Transfer Learning? *
(1 Point)

- A. Use a pre-trained model so that we don't have to train at all
- B. Use a pre-trained model so that we only need to train on new datasets
- C. Do not use a pre-trained model, because that will reduce the accuracy of specific tasks
- D. Both options A and B

13

Which is not an algorithm? *
(1 Point)

- A. Linear Regression
- B. Naive Bayes
- C. K Nearest Neighbour
- D. Recognition

14

What are the possible inputs in an ML algorithm? *
(1 Point)

- A. Graphs
- B. Logs
- C. None of the above
- D. All of the above

15

Epoch is a *
(1 Point)

- A. Unit of weight
- B. A specific amount of time in seconds
- C. Time taken to go through all nodes once
- D. Time taken to go through all data once

16

What is the difference between Training and Inference? *
(1 Point)

- A. Training is more compute intensive
- B. Inference is more compute intensive
- C. Both require the same amount of computation
- D. Depends on model and dataset

17

ReLU stands for *
(1 Point)

- A.Rectified Logarithmic Unit
- B.Rectified Linear Unit
- C.Repressed Logarithmic Unit
- D.Recurrent Linear Unit

18

In regression the output is *
(1 Point)

- Discrete
- Continuous
- Can be discrete or continuous
- Neither discrete not continuous

19

Real Time Decisions,Game AI,Learning Tasks,Skill Acqition and Robot Navigation are applications of *
(1 Point)

- A.Unsupervised Learning : Regression
- B.Supervised Learning : Classification
- C.Reinforcement Learning
- D.Learning and Techniques

20

In which kind of Machine Learning, an AI system is presented with labeled data? *
(1 Point)

- A. Supervised Learning
- B. Unsupervised Learning
- C. Reinforcement Learning
- D. Learning and Techniques

21

Which one of the following is an unsupervised learning algorithm? *
(1 Point)

- A. KNN
- B. K Means
- C. RFC
- D. SVM

22

In general, to have a well defined learning problem, we must identify which of the following? *
(1 Point)

- A. The class of tasks
- B. The measure of performance to be improved
- C. The source of experience
- D. All of the above

23

In linear regression, the parameters are *
(1 Point)

- integers
- in the range [0,1]
- value in real space
- value in complex space

24

Select the Successful applications of ML. *
(1 Point)

- A.Learning to recognize spoken words
- B.Learning to drive an autonomous vehicle
- C.Learning to classify new astronomical structures
- D.Learning to play world class backgammon
- E.All of the above

25

Targeted marketing, Recommended Systems, and Customer Segmentation are applications in which of the following? *
(1 Point)

- A. Supervised Learning: Classification
- B. Unsupervised Learning: Clustering
- C. Unsupervised Learning: Regression
- D. Reinforcement Learning

26

Decision trees can not be used when the variables are categorical. *
(1 Point)

- True
- False

27

For an image recognition problem (such as recognizing a cat in a photo), which architecture of neural network has been found to be better suited for the tasks? *
(1 Point)

- Perceptron
- RNN
- CNN
- Multilayer Perceptron

28

After training an SVM, we *
(1 Point)

- can discard all examples which are not support vectors and can still classify new examples
- can not discard all examples which are not support vectors and can still classify new examples
- can discard all examples which are support vectors and can still classify new examples
- have to retain all examples that are used during training to classify new examples

29

In unsupervised learning, *
(1 Point)

- Number of groups may be known
- Feature of groups may be known
- Both the number and feature of groups may be known
- Neither the number and feature of groups may be known

30

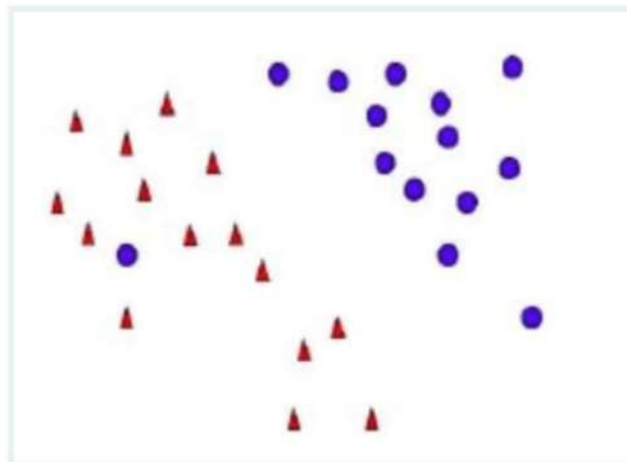
The term machine learning was coined in which year? *
(1 Point)

- A. 1958
- B. 1959
- C. 1960
- D. 1961

PART B

15 * 2 Marks = 30 Marks

31



The curve which is used to separate the data present in the given figure is *
(2 Points)

- Quadratic
- Cubic
- Linear
- Given Data is not sufficient

32

What are the two types of Supervised Learning? *
(2 Points)

- A. Classification
- B. Clustering
- C. Progression
- D. Regression

33

One of the most common uses of Machine Learning today is in the domain of Robotics. Robotic tasks include a multitude of ML methods tailored towards navigation, robotic control and a number of other tasks. Robotic control includes controlling the actuators available to the robotic system. An example of this is control of a painting arm in automotive industries. The robotic arm must be able to paint every corner in the automotive parts while minimizing the quantity of paint wasted in the process. Which of the following learning paradigms would you select for training such a robotic arm? *

(2 Points)

- Supervised Learning
- Unsupervised Learning
- Reinforcement Learning
- Hybrid Learning

34

In which of the applications, dimensionality reduction can be used? *

(2 Points)

- Data Compression
- Data Visualization
- Both
- None

I am the marketing consultant of a leading e-commerce website. I have been given a task

of making a system that recommends products to users based on their activity on Facebook. I realize

that user-interests could be highly variable. Hence I decide to

a. First, cluster the users into communities of like-minded people and

b. Second, train separate models for each community to predict which product category (e.g.

electronic gadgets, cosmetics, etc.) would be the most relevant to that community.

The first task is a/an _____ learning problem while the second is a/an

_____ problem. *

(2 Points)

- Supervised and unsupervised
- Unsupervised and supervised
- Unsupervised and unsupervised
- Supervised and supervised

What is the sequence of steps followed in training a perceptron?

1. For a sample input, compute an output

2. Initialize weights of perceptron randomly

3. Go to the next batch of dataset

4. If the prediction does not match the output, change the weights *

(2 Points)

- A) 2,1,4,3
- B) 1,4,3,2
- C) 1,2,3,4
- D) 2,3,4,1

37

Which of the following is a supervised learning problem? *
(2 Points)

- A) Grouping people in a social network.
- B) Predicting credit approval based on historical data
- C) Predicting rainfall based on historical data
- D) all of the above

38

Linear Regression is a machine learning algorithm based on ____.*
(2 Points)

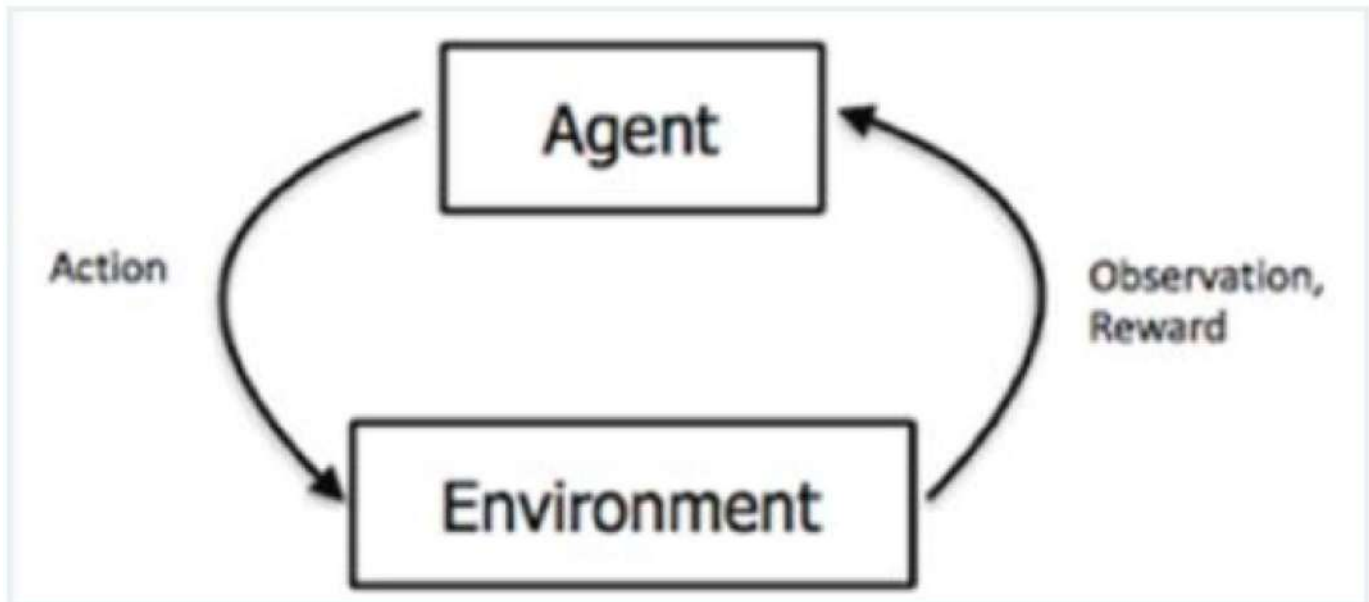
- A) unsupervised learning
- B) supervised learning.
- C) reinforcement learning
- D) deep learning

39

Which of the following are examples of classification? *
(2 Points)

- Predicting gender using writing style
- Predicting temperature of a location
- Predicting whether there will be flood or not
- Predicting the sales of next month

Identify the type of learning in the following figure. *
(2 Points)



- Supervised Learning
- Unsupervised Learning
- Reinforcement Learning
- Deep Learning

What does the term 'outlier' mean? *
(2 Points)

- A score that is left out of the analysis because of missing data
- The arithmetic mean
- An extreme value at either end of a distribution
- A type of variable that cannot be quantified

42

PANDAS stands for _____ *
(2 Points)

- a. Panel Data Analysis
- b. Panel Data analyst
- c. Panel Data
- d. Panel Dashboard

43

Symbol that is used to create list in python *
(2 Points)

- {}
- ()
- []
- < >

44

Which one is true in multiple linear regression? *
(2 Points)

- It contains single independent variable and single dependent variable
- It contains single independent variable and multiple dependent variables
- It contains multiple independent variables and single dependent variable
- It contains multiple independent variables and multiple dependent variables

45

Annotation refers to *
(2 Points)

- Labeled data
- Outlier data
- Missing values
- Trained data

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 Microsoft Forms

Attendance sheet

Machine Learning with Scikit-Learn, Keras & Tensorflow

Total No. of Students: 30

Date: 21/02/2022

Attended Students: 27

Trainers Name:

Manaz
Vasanth

✓
Day 1/2/3/4/5/6

S.No	Dept.	Section	Roll No	Student Name	Signature		
					9AM-10.40 AM	11 AM-12.40PM	1.30PM-4PM
1.	AD		20UAD008	SHRIDHARAN.R.B	<i>R.B. Shridharan</i>	<i>R.B. Shridharan</i>	<i>R.B. Shridharan</i>
2.	AD		20UAD013	VIGNESWARAN.R.K	<i>R.K. Vigneshwaran</i>	<i>R.K. Vigneshwaran</i>	<i>R.K. Vigneshwaran</i>
3.	AD		20UAD014	JAYANTHAN.R	ML	ML	ML
4.	AD		20UAD021	PREMKUMAR.G	<i>G. Premkumar</i>	<i>G. Premkumar</i>	<i>G. Premkumar</i>
5.	AD		20UAD023	YUVA SIVASAKTHI.G	<i>G. Yuvasakthi</i>	<i>G. Yuvasakthi</i>	<i>G. Yuvasakthi</i>
6.	AD		20UAD024	SHRI RAJESHWARAN.M	<i>M. Sri Rajeshwaran</i>	<i>M. Sri Rajeshwaran</i>	<i>M. Sri Rajeshwaran</i>
7.	AD		20UAD026	TILAK.N.G	<i>N.G. Tilak</i>	<i>N.G. Tilak</i>	<i>N.G. Tilak</i>
8.	AD		20UAD028	JEEVITHARAJ.D	<i>D. Jeevitharaj</i>	<i>D. Jeevitharaj</i>	<i>D. Jeevitharaj</i>
9.	AD		20UAD029	KIPSON.A.J	<i>A.J. Kipson</i>	<i>A.J. Kipson</i>	<i>A.J. Kipson</i>
10.	AD		20UAD032	DHARSHINI.V	OD	OD	OD
11.	AD		20UAD035	RAGESH.M	<i>M. Ragesh</i>	<i>M. Ragesh</i>	<i>M. Ragesh</i>
12.	AD		20UAD037	DHARESH KUMAR.N.S	<i>N.S. Dhareesh Kumar</i>	<i>N.S. Dhareesh Kumar</i>	<i>N.S. Dhareesh Kumar</i>
13.	AD		20UAD040	SURYA.A	<i>A. Surya</i>	<i>A. Surya</i>	<i>A. Surya</i>

S.No	Dept.	Section	Roll No	Student Name	Signature		
					9AM-10.40 AM	11 AM-12.40PM	1.30PM - 4PM
14.	AD		20UAD042	JEEVARAJAN .P			
15.	AD		20UAD046	GEORGE JERING.T	AB	AB	AB
16.	CSE	A	20UCS010	BAVA DHARANI.B			
17.	CSE	A	20UCS017	VARUN.B	B.Varun	B.Varun	B.Varun
18.	CSE	A	20UCS039	SABARI KANTH.A			
19.	CSE	A	20UCS060	SAHANARINI.S			
20.	CSE	A	20UCS082	BASIL TAMIL SELVAN.E			
21.	CSE	A	20UCS111	GAJENDRAN.R			
22.	CSE	B	20UCS002	SAJIYA BEGUM.A			
23.	CSE	B	20UCS009	SRIMATHI.S			
24.	CSE	B	20UCS036	GIRIVASAN.S.V			
25.	CSE	B	20UCS048	VENKATESHKANNAN.M.S			
26.	CSE	B	20UCS070	SANTHIYA.E			
27.	CSE	B	20UCS079	MALAIAPPAN SRIKANTH.S			
28.	CSE	B	20UCS095	SARVASH.S.S			
29.	CSE	B	20UCS104	YASHWANT RAM.G.A			
30.	CSE	B	20UCS112	ASHWATHKUMAR.S.S	AB	AB	AB

Trainer(s)

Course Coordinator(s)

VAC Co-ordinator

HOD/CSE

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Attendance sheet

Machine Learning with Scikit-Learn, Keras & Tensorflow

Total No. of Students: 30

Date: 22/02/2022

Attended Students: 28

Trainers Name:

1. Mr. Manaz.
2. Mr. Vasanth.

Day 1 / ~~2/3/4/5/6~~

S.No	Dept.	Section	Roll No	Student Name	Signature		
					9AM-10.40 AM	11 AM-12.40PM	1.30PM-4PM
1.	AD		20UAD008	SHRIDHARAN.R.B	<i>R.B. Shridharan</i>	<i>R.B. Shridharan</i>	<i>R.B. Shridharan</i>
2.	AD		20UAD013	VIGNESWARAN.R.K	<i>Pr. Vign</i>	<i>Pr. Vign</i>	<i>Pr. Vign</i>
3.	AD		20UAD014	JAYANTHAN.R	<i>ML</i>	<i>ML</i>	<i>ML</i>
4.	AD		20UAD021	PREMKUMAR.G	<i>AB</i>	<i>AB</i>	<i>AB</i>
5.	AD		20UAD023	YUVA SIVASAKTHI.G	<i>G. Yuva</i>	<i>G. Yuva</i>	<i>G. Yuva</i>
6.	AD		20UAD024	SHRI RAJESHWARAN.M	<i>M. Sri Rajesh</i>	<i>M. Sri Rajesh</i>	<i>M. Sri Rajesh</i>
7.	AD		20UAD026	TILAK.N.G	<i>M. Tilak</i>	<i>M. Tilak</i>	<i>M. Tilak</i>
8.	AD		20UAD028	JEEVITHARAJ.D	<i>Jeevitha Raj</i>	<i>Jeevitha Raj</i>	<i>Jeevitha Raj</i>
9.	AD		20UAD029	KIPSON.A.J	<i>Kipson</i>	<i>Kipson</i>	<i>Kipson</i>
10.	AD		20UAD032	DHARSHINI.V	<i>Dharshini</i>	<i>Dharshini</i>	<i>Dharshini</i>
11.	AD		20UAD035	RAGESH.M	<i>Ragesh</i>	<i>Ragesh</i>	<i>Ragesh</i>
12.	AD		20UAD037	DHARESH KUMAR.N.S	<i>N.S. Dharesh Kumar</i>	<i>N.S. Dharesh Kumar</i>	<i>N.S. Dharesh Kumar</i>
13.	AD		20UAD040	SURYA.A	<i>Surya A</i>	<i>Surya A</i>	<i>Surya A</i>

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					9AM-10.40 AM	11 AM-12.40PM	1.30PM - 4PM
14.	AD		20UAD042	JEEVARAJAN.R			
15.	AD		20UAD046	GEORGE JERING.T	I. George Jering	I. George Jering	I. George Jering
16.	CSE	A	20UCS010	BAVA DHARANI.B			
17.	CSE	A	20UCS017	VARUN.B	B.Varun	B.Varun	B.Varun
18.	CSE	A	20UCS039	SABARI KANTH.A			
19.	CSE	A	20UCS060	SAHANARINI.S	Sah R.S	Sah R.S	Sah R.S
20.	CSE	A	20UCS082	BASIL TAMIL SELVAN.E			
21.	CSE	A	20UCS111	GAJENDRAN.R	R.Gajendran	R.Gajendran	R.Gajendran
22.	CSE	B	20UCS002	SAJIYA BEGUM.A	S. Sajiya	S. Sajiya	S. Sajiya
23.	CSE	B	20UCS009	SRIMATHI.S	S. Sri	S. Sri	S. Sri
24.	CSE	B	20UCS036	GIRIVASAN.S.V	Girivasary	Girivasary	Girivasary
25.	CSE	B	20UCS048	VENKATESHKANNAN.M.S	M.S.Venkatesh Kannan	M.S.Venkatesh Kannan	M.S.Venkatesh Kannan
26.	CSE	B	20UCS070	SANTHIYA.E	E. Sri	E. Sri	E. Sri
27.	CSE	B	20UCS079	MALAIAPPAN SRIKANTH.S			
28.	CSE	B	20UCS095	SARVASH.S.S	Sarvas	Sarvas	Sarvas
29.	CSE	B	20UCS104	YASHWANT RAM.G.A			
30.	CSE	B	20UCS112	ASHWATHKUMAR.S.S	S.S. Ashwath Kumar	S.S. Ashwath Kumar	S.S. Ashwath Kumar

Trainer(s)

Course Coordinator(s)

VAC Co-ordinator

HOD/CSE

Attendance sheet

Machine Learning with Scikit-Learn, Keras & Tensorflow

Total No. of Students: 30

Date: 23/02/2022

Attended Students: 28

Trainers Name:

1. Mr. Manaz H
2. Mrs. Vasanth K

Day 1/2/3/4/5/6

S.No	Dept.	Section	Roll No	Student Name	Signature		
					9AM-10.40 AM	11 AM-12.40PM	1.30PM-4PM
1.	AD		20UAD008	SHRIDHARAN.R.B	<i>R.B. Shridharan</i>	<i>R.B. Shridharan</i>	<i>R.B. Shridharan</i>
2.	AD		20UAD013	VIGNESWARAN.R.K	<i>R.K. Vigneshwaran</i>	<i>R.K. Vigneshwaran</i>	<i>R.K. Vigneshwaran</i>
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9.	AD		20UAD029	KIPSON.A.J	<i>A.J. Kipson</i>	<i>A.J. Kipson</i>	<i>A.J. Kipson</i>
10.	AD		20UAD032	DHARSHINI.V	<i>V. Dharsini</i>	<i>V. Dharsini</i>	<i>V. Dharsini</i>
11.	AD		20UAD035	RAGESH.M	<i>M. Ragesh</i>	<i>M. Ragesh</i>	<i>M. Ragesh</i>
12.	AD		20UAD037	DHARESH KUMAR.N.S	<i>N.S. Dharesh Kumar</i>	<i>N.S. Dharesh Kumar</i>	<i>N.S. Dharesh Kumar</i>
13.	AD		20UAD040	SURYA.A	<i>A. Surya</i>	<i>A. Surya</i>	<i>A. Surya</i>

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15.	AD		20UAD046	GEORGE JERING.T	George Jering-T	George Jering-T	George Jering-T
16.	CSE	A	20UCS010	BAVA DHARANI.B			
17.	CSE	A	20UCS017	VARUN.B	B.Varun	B.Varun	B.Varun
18.	CSE	A	20UCS039	SABARI KANTH.A			
19.	CSE	A	20UCS060	SAHANARINI.S			
20.	CSE	A	20UCS082	BASIL TAMIL SELVAN.E	OD	OD	OD
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22.	CSE	B	20UCS002	SAJIYA BEGUM.A			
23.	CSE	B	20UCS009	SRIMATHI.S			
24.	CSE	B	20UCS036	GIRIVASAN.S.V			
25.	CSE	B	20UCS048	VENKATESHKANNAN.M.S	M.S.Venkatesh Kannan	M.S.Venkatesh Kannan	M.S.Venkatesh Kannan
26.	CSE	B	20UCS070	SANTHIYA.E			
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28.	CSE	B	20UCS095	SARVASH.S.S			
29.	CSE	B	20UCS104	YASHWANT RAM.G.A			
30.	CSE	B	20UCS112	ASHWATHKUMAR.S.S			

Trainer(s)

Course Coordinator(s)

VAC Co-ordinator

HOD/CSE

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Attendance sheet

Machine Learning with Scikit-Learn, Keras & Tensorflow

Total No. of Students: 30

Date: 24/02/2022

Attended Students: 27

Trainers Name: 1. Mr. H. Manaz
 2. Mr. K. Vasanth

Day 1/2/3/4/5/6

S.No	Dept.	Section	Roll No	Student Name	Signature		
					9AM-10.40 AM	11 AM-12.40PM	1.30PM-4PM
1.	AD		20UAD008	SHRIDHARAN.R.B	<i>R.B. Shridharan</i>	<i>R.B. Shridharan</i>	<i>R.B. Shridharan</i>
2.	AD		20UAD013	VIGNESWARAN.R.K	<i>R.K. Vigneshwaran</i>	<i>R.K. Vigneshwaran</i>	<i>R.K. Vigneshwaran</i>
3.	AD		20UAD014	JAYANTHAN.R	ML	ML	ML
4.	AD		20UAD021	PREMKUMAR.G	<i>G. Premkumar</i>	<i>G. Premkumar</i>	<i>G. Premkumar</i>
5.	AD		20UAD023	YUVA SIVASAKTHI.G	<i>G. Yuvasivasakthi</i>	<i>G. Yuvasivasakthi</i>	<i>G. Yuvasivasakthi</i>
6.	AD		20UAD024	SHRI RAJESHWARAN.M	<i>M. Shri Rajeshwaran</i>	<i>M. Shri Rajeshwaran</i>	<i>M. Shri Rajeshwaran</i>
7.	AD		20UAD026	TILAK.N.G	<i>N.G. Tilak</i>	<i>N.G. Tilak</i>	<i>N.G. Tilak</i>
8.	AD		20UAD028	JEEVITHARAJ.D	<i>D. Jeevitharaj</i>	<i>D. Jeevitharaj</i>	<i>D. Jeevitharaj</i>
9.	AD		20UAD029	KIPSON.A.J	<i>A.J. Kipson</i>	<i>A.J. Kipson</i>	<i>A.J. Kipson</i>
10.	AD		20UAD032	DHARSHINI.V	<i>V. Dharsini</i>	<i>V. Dharsini</i>	<i>V. Dharsini</i>
11.	AD		20UAD035	RAGESH.M	<i>M. Ragesh</i>	<i>M. Ragesh</i>	<i>M. Ragesh</i>
12.	AD		20UAD037	DHARESH KUMAR.N.S	<i>N.S. Dharesh Kumar</i>	<i>N.S. Dharesh Kumar</i>	<i>N.S. Dharesh Kumar</i>
13.	AD		20UAD040	SURYA.A	<i>A. Surya</i>	<i>A. Surya</i>	<i>A. Surya</i>

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15.	AD		20UAD046	GEORGE JERING.T	George Jering	George Jering	George Jering
16.	CSE	A	20UCS010	BAVA DHARANI.B			
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19.	CSE	A	20UCS060	SAHANARINI.S			
20.	CSE	A	20UCS082	BASIL TAMIL SELVAN.E	OD	OD	OD
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23.	CSE	B	20UCS009	SRIMATHI.S			
24.	CSE	B	20UCS036	GIRIVASAN.S.V			
25.	CSE	B	20UCS048	VENKATESHKANNAN.M.S	M.S.Venkatesh Kumar	M.S.Venkatesh Kumar	M.S.Venkatesh Kumar
26.	CSE	B	20UCS070	SANTHIYA.E			
27.	CSE	B	20UCS079	MALAIAPPAN SRIKANTH.S			
28.	CSE	B	20UCS095	SARVASH.S.S			
29.	CSE	B	20UCS104	YASHWANT RAM.G.A			
30.	CSE	B	20UCS112	ASHWATHKUMAR.S.S	S.S.Ashwath Kumar	S.S.Ashwath Kumar	S.S.Ashwath Kumar

Trainer(s)

Course Coordinator(s)

for

VAC Co-ordinator

HOD/CSE



(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)
 S.P.G.Chidambara Nadar - C.Nagammal Campus
 S.P.G.C. Nagar, K.Vellakulam - 625 701 (Near VIRUDHUNAGAR).

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Attendance sheet

Machine Learning with Scikit-Learn, Keras & Tensorflow

Total No. of Students: 30

Date: 25/02/22

Attended Students: 27

Trainers Name: 1. Mr. FARHAD H MANAZ H

2. Mr. K. Vasanth.

Day 1/2/3/4/5/6

S.No	Dept.	Section	Roll No	Student Name	Signature		
					9AM-10.40 AM	11 AM-12.40PM	1.30PM-4PM
1.	AD		20UAD008	SHRIDHARAN.R.B	R.B.	R.B.	R.B.
2.	AD		20UAD013	VIGNESWARAN.R.K	R.K.	R.K.	R.K.
3.	AD		20UAD014	JAYANTHAN.R	ML	ML	ML
4.	AD		20UAD021	PREMKUMAR.G	G.	G.	G.
5.	AD		20UAD023	YUVA SIVASAKTHI.G	G.	G.	G.
6.	AD		20UAD024	SHRI RAJESHWARAN.M	M.	M.	M.
7.	AD		20UAD026	TILAK.N.G	N.G.	N.G.	N.G.
8.	AD		20UAD028	JEEVITHARAJ.D	D.	D.	D.
9.	AD		20UAD029	KIPSON.A.J	A.J.	A.J.	A.J.
10.	AD		20UAD032	DHARSHINI.V	V.	V.	V.
11.	AD		20UAD035	RAGESH.M	M.	M.	M.
12.	AD		20UAD037	DHARESH KUMAR.N.S	N.S.	N.S.	N.S.
13.	AD		20UAD040	SURYA.A	A.	A.	A.

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19.	CSE	A	20UCS060	SAHANARINI.S			
20.	CSE	A	20UCS082	BASIL TAMIL SELVAN.E	OD	OD	OD
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22.	CSE	B	20UCS002	SAJIYA BEGUM.A			
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29.	CSE	B	20UCS104	YASHWANT RAM.G.A			
30.	CSE	B	20UCS112	ASHWATHKUMAR.S.S	AB	AB	AB

K. V. Kup
Trainer(s)

S. J. Jany
Course Coordinator(s)

S. S. Sripika
VAC Co-ordinator

Murali
HOD/CSE

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Attendance sheet

Machine Learning with Scikit-Learn, Keras & Tensorflow

Total No. of Students: 30

Date: 26/2/22

Attended Students: 27

Trainers Name: 1. Mr. Farhadh Manaz. H

2. Mrs. K. Vasanth

Day 1/2/3/4/5/6

S.No	Dept.	Section	Roll No	Student Name	Signature		
					9AM-10.40 AM	11 AM-12.40PM	1.30PM-4PM
1.	AD		20UAD008	SHRIDHARAN.R.B	R.B.	R.B.	R.B.
2.	AD		20UAD013	VIGNESWARAN.R.K	Pr.vign	Pr.vign	Pr.vign
3.	AD		20UAD014	JAYANTHAN.R	ML	ML	ML
4.	AD.		20UAD021	PREMKUMAR.G	AB	AB	AB
5.	AD		20UAD023	YUVA SIVASAKTHI.G	G.Vinay	G.Vinay	G.Vinay
6.	AD		20UAD024	SHRI RAJESHWARAN.M	M.Rajesh	M.Rajesh	M.Rajesh
7.	AD		20UAD026	TILAK.N.G	T.N.G.	T.N.G.	T.N.G.
8.	AD		20UAD028	JEEVITHARAJ.D	Jeevitha Raj	Jeevitha Raj	Jeevitha Raj
9.	AD		20UAD029	KIPSON.A.J	A.J.	A.J.	A.J.
10.	AD		20UAD032	DHARSHINI.V	D.V.	D.V.	D.V.
11.	AD		20UAD035	RAGESH.M	R.M.	R.M.	R.M.
12.	AD		20UAD037	DHARESH KUMAR.N.S	N.S. Dharsh	N.S. Dharsh	N.S. Dharsh
13.	AD		20UAD040	SURYA.A	A.A.	A.A.	A.A.

S.No	Dept.	Section	Roll No	Student Name	Signature		
					9AM-10.40 AM	11 AM-12.40PM	1.30PM-4PM
14.	AD		20UAD042	JEEVARAJAN - R			
15.	AD		20UAD046	GEORGE JERING.T			
16.	CSE	A	20UCS010	BAVA DHARANI.B			
17.	CSE	A	20UCS017	VARUN.B			
18.	CSE	A	20UCS039	SABARI KANTH.A			
19.	CSE	A	20UCS060	SAHANARINI.S			
20.	CSE	A	20UCS082	BASIL TAMIL SELVAN.E	OD	OD	OD
21.	CSE	A	20UCS111	GAJENDRAN.R			
22.	CSE	B	20UCS002	SAJIYA BEGUM.A			
23.	CSE	B	20UCS009	SRIMATHI.S			
24.	CSE	B	20UCS036	GIRIVASAN.S.V			
25.	CSE	B	20UCS048	VENKATESHKANNAN.M.S			
26.	CSE	B	20UCS070	SANTHIYA.E			
27.	CSE	B	20UCS079	MALAIAPPAN SRIKANTH.S			
28.	CSE	B	20UCS095	SARVASH.S.S			
29.	CSE	B	20UCS104	YASHWANT RAM.G.A			
30.	CSE	B	20UCS112	ASHWATHKUMAR.S.S			

Trainer(s)

Course Coordinator(s)

VAC Co-ordinator

HOD/CSE

TILAK.N.G(AD) (15)



Time to complete: 02:28 Points: 49/60

PART A

30 * 1 Mark = 30 Marks

1. What is generated in convolutional layer of a CNN ?

1 / 1 pt

Auto-graded A. Feature detector B. Feature Map  C. Feature Matrix D. Featured image

2. Machine Learning is a subset of

1 / 1 pt

Auto-graded Artificial Intelligence  Deep Learning Reinforcement Learning Data Science

3. PyTorch belongs to

1 / 1 pt

Auto-graded A. Google B. Microsoft C. Facebook  D. Nvidia

4. What is the most significant phase in a genetic algorithm?

1 / 1 pt
Auto-graded

Selection

Mutation

Crossover ✓

Fitness function

5. Why engine files are built during Inferencing a model ?

1 / 1 pt
Auto-graded

A. To get a good frame rate

B. To get good accuracy

C. To optimize the model for the system requirements

D. All of the above ✓

6. State true or false: PCA can be used for dimensionality reduction.

1 / 1 pt
Auto-graded

A. True ✓

B. False

7. Which one of the following is not a Deep learning model

1 / 1 pt
Auto-graded

A. Mobilenet

B. VGG - 16

C. Inception

D. Tenet - 19 ✓

8. Which one of the following is a regression task?

0 / 1 pt
Auto-graded

Predict the age of a person ✓

Predict the country from where the person comes from

Predict whether the price of petroleum will increase tomorrow

Predict whether a document is related to science ✗

9. What is "Classification" in Machine Learning?

1 / 1 pt

Auto-graded

- A. Mapping a group of inputs to discrete outputs
- B. Classifying an input to a given set of categories
- C. Predicting labels for input images

D. All of the above



10. How to print "Hello World" in Python?

1 / 1 pt

Auto-graded

A. Echo "Hello World"

B. `print("Hello World")`



C. `p("Hello World")`

D. `echo("Hello`

11. Which is a categorical feature?

1 / 1 pt

Auto-graded

Weight of a person

Price of a book

Medium of study



Temperature in a place

12. What is Transfer Learning?

0 / 1 pt

Auto-graded

A. Use a pre-trained model so that we don't have to train at all

B. Use a pre-trained model so that we only need to train on new datasets



C. Do not use a pre-trained model, because that will reduce the accuracy of specific tasks

D. Both options A and B



13. Which is not an algorithm?

1 / 1 pt

Auto-graded

- A.Linear Regression
- B.Naive Bayes
- C.K Nearest Neighbour
- D.Recognition ✓

14. What are the possible inputs in an ML algorithm?

1 / 1 pt

Auto-graded

- A.Graphs
- B.Logs
- C.None of the above ✓
- D.All of the above

15. Epoch is a

0 / 1 pt

Auto-graded

- A.Unit of weight
- B.A specific amount of time in seconds
- C.Time taken to go through all nodes once ✗
- D.Time taken to go through all data once ✓

16. What is the difference between Training and Inference?

1 / 1 pt

Auto-graded

- A.Training is more compute intensive ✓
- B.Inference is more compute intensive
- C.Both require the same amount of computation
- D.Depends on model and dataset

17. ReLU stands for

1 / 1 pt

Auto-graded

- A.Rectified Logarithmic Unit
- B.Rectified Linear Unit ✓
- C.Repressed Logarithmic Unit
- D.Recurrent Linear Unit

18. In regression the output is

1 / 1 pt

Auto-graded

- Discrete
- Continuous ✓
- Can be discrete or continuous
- Neither discrete not continuous

19. Real Time Decisions,Game AI,Learning Tasks,Skill Acqiuition and Robot Navigation are applications of

1 / 1 pt

Auto-graded

- A.Unsupervised Learning : Regression
- B.Supervised Learning : Classification
- C.Reinforcement Learning ✓
- D.Learning and Techniques

20. In which kind of Machine Learning, an AI system is presented with labeled data?

1 / 1 pt

Auto-graded

- A.Supervised Learning ✓
- B.Unsupervised Learning
- C.Reinforcement Learning
- D.Learning and Techniques

21. Which one of the following is an unsupervised learning algorithm?

1 / 1 pt

Auto-graded

- A. KNN
- B. K Means ✓
- C. RFC
- D. SVM

22. In general, to have a well defined learning problem, we must identify which of the following?

1 / 1 pt
Auto-graded

- A.The class of tasks
- B.The measure of performance to be improved
- C.The source of experience
- D.All of the above ✓

23. In linear regression, the parameters are

0 / 1 pt
Auto-graded

- integers ✗
- in the range [0,1]
- value in real space ✓
- value in complex space

24. Select the Successful applications of ML.

0 / 1 pt
Auto-graded

- A.Learning to recognize spoken words
- B.Learning to drive an autonomous vehicle
- C.Learning to classify new astronomical structures ✗
- D.Learning to play world class backgammon
- E.All of the above ✓

25. Targeted marketing, Recommended Systems, and Customer Segmentation are applications in which of the following?

1 / 1 pt
Auto-graded

- A.Supervised Learning: Classification
- B.Unsupervised Learning: Clustering ✓
- C.Unsupervised Learning: Regression
- D.Reinforcement Learning

26. Decision trees can not be used when the variables are categorical.

0 / 1 pt
Auto-graded

- True ✓
- False ✗

27. For an image recognition problem (such as recognizing a cat in a photo), which architecture of neural network has been found to be better suited for the tasks?

1 / 1 pt
Auto-graded

- Perceptron
- RNN
- CNN ✓
- Multilayer Perceptron

28. After training an SVM, we

1 / 1 pt
Auto-graded

- can discard all examples which are not support vectors and can still classify new examples ✓
- can not discard all examples which are not support vectors and can still classify new examples
- can discard all examples which are support vectors and can still classify new examples
- have to retain all examples that are used during training to classify new examples

29. In unsupervised learning,

0 / 1 pt
Auto-graded

- Number of groups may be known
- Feature of groups may be known ✗
- Both the number and feature of groups may be known
- Neither the number and feature of groups may be known ✓

30. The term machine learning was coined in which year?

1 / 1 pt

Auto-graded

A. 1958

B. 1959



C. 1960

D. 1961

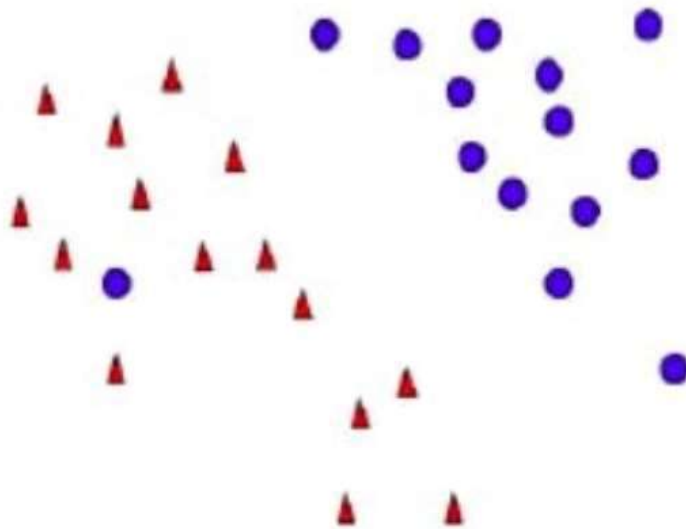
PART B

15 * 2 Marks = 30 Marks

31. The curve which is used to separate the data present in the given figure is

2 / 2 pts

Auto-graded



Quadratic

Cubic

Linear



Given Data is not sufficient

32. What are the two types of Supervised Learning?

2 / 2 pts

Auto-graded

- A. Classification ✓
- B. Clustering
- C. Progression
- D. Regression ✓

33. One of the most common uses of Machine Learning today is in the domain of Robotics. Robotic tasks include a multitude of ML methods tailored towards navigation, robotic control and a number of other tasks. Robotic control includes controlling the actuators available to the robotic system. An example of this is control of a painting arm in automotive industries. The robotic arm must be able to paint every corner in the automotive parts while minimizing the quantity of paint wasted in the process. Which of the following learning paradigms would you select for training such a robotic arm?

2 / 2 pts

Auto-graded

- Supervised Learning
- Unsupervised Learning
- Reinforcement Learning ✓
- Hybrid Learning

34. In which of the applications, dimensionality reduction can be used?

0 / 2 pts

Auto-graded

- Data Compression
- Data Visualization
- Both ✓
- None ✗

35. I am the marketing consultant of a leading e-commerce website. I have been given a task of making a system that recommends products to users based on their activity on Facebook. I realize that user-interests could be highly variable. Hence I decide to

- First, cluster the users into communities of like-minded people and
- Second, train separate models for each community to predict which product category (e.g. electronic gadgets, cosmetics, etc.) would be the most relevant to that community.

The first task is a/an _____ learning problem while the second is a/an _____ problem.

2 / 2 pts
Auto-graded

Supervised and unsupervised

Unsupervised and supervised ✓

Unsupervised and unsupervised

Supervised and supervised

36. What is the sequence of steps followed in training a perceptron?

2 / 2 pts
Auto-graded

1. For a sample input, compute an output
2. Initialize weights of perceptron randomly
3. Go to the next batch of dataset
4. If the prediction does not match the output, change the weights

A) 2,1,4,3 ✓

B) 1,4,3,2

C) 1,2,3,4

D) 2,3,4,1

37. Which of the following is a supervised learning problem?

2 / 2 pts

Auto-graded

- A) Grouping people in a social network.
- B) Predicting credit approval based on historical data ✓
- C) Predicting rainfall based on historical data ✓
- D) all of the above

38. Linear Regression is a machine learning algorithm based on ____.

2 / 2 pts

Auto-graded

- A) unsupervised learning
- B) supervised learning. ✓
- C) reinforcement learning
- D) deep learning

39. Which of the following are examples of classification?

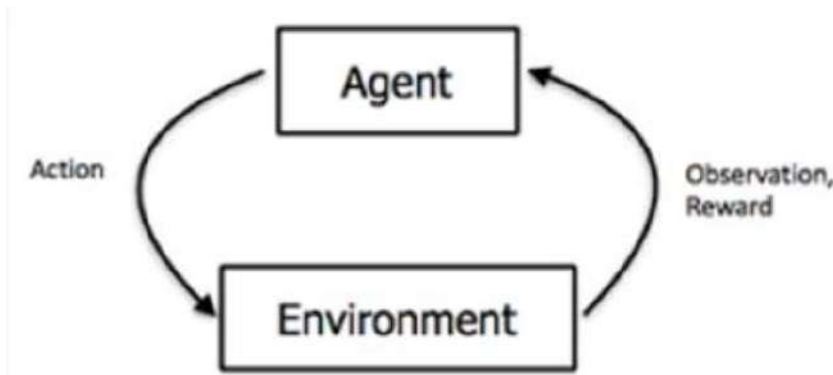
2 / 2 pts

Auto-graded

- Predicting gender using writing style ✓
- Predicting temperature of a location
- Predicting whether there will be flood or not ✓
- Predicting the sales of next month

40. Identify the type of learning in the following figure.

0 / 2 pts
Auto-graded



- Supervised Learning
- Unsupervised Learning
- Reinforcement Learning ✓
- Deep Learning ✗

41. What does the term 'outlier' mean?

2 / 2 pts
Auto-graded

- A score that is left out of the analysis because of missing data
- The arithmetic mean
- An extreme value at either end of a distribution ✓
- A type of variable that cannot be quantified

42. PANDAS stands for _____

2 / 2 pts
Auto-graded

- a. Panel Data Analysis ✓
- b. Panel Data analyst
- c. Panel Data
- d. Panel Dashboard

43. Symbol that is used to create list in python

2 / 2 pts
Auto-graded

- {}
- ()
- [] ✓
- < >

44. Which one is true in multiple linear regression?

2 / 2 pts

Auto-graded

- It contains single independent variable and single dependent variable
- It contains single independent variable and multiple dependent variables
- It contains multiple independent variables and single dependent variable ✓
- It contains multiple independent variables and multiple dependent variables

45. Annotation refers to

2 / 2 pts

Auto-graded

- Labeled data ✓
- Outlier data
- Missing values
- Trained data



Machine Learning with Scikit-Learn, Keras & Tensorflow - Assessment - 16.03.2022

29

Responses

45.2

Average Score

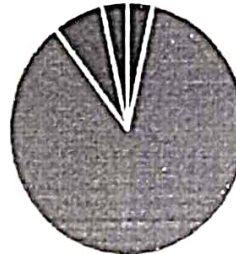
Active

Status

1. What is generated in convolutional layer of a CNN ? (1 point)

86% of respondents (25 of 29) answered this question correctly.

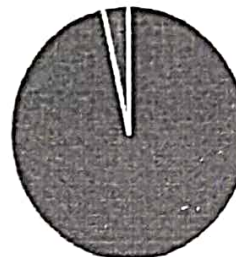
- A. Feature detector 1
- B. Feature Map 25 ✓
- C. Feature Matrix 2
- D. Featured image 1



2. Machine Learning is a subset of (1 point)

97% of respondents (28 of 29) answered this question correctly.

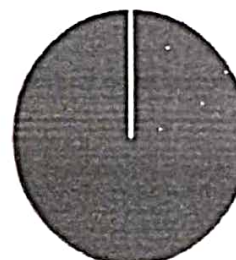
- Artificial Intelligence 28 ✓
- Deep Learning 1
- Reinforcement Learning 0
- Data Science 0



3. PyTorch belongs to (1 point)

100% of respondents (29 of 29) answered this question correctly.

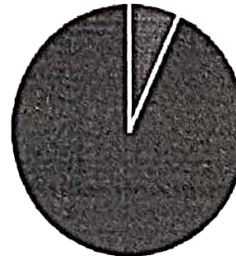
- A. Google 0
- B. Microsoft 0
- C. Facebook 29 ✓
- D. Nvidia 0



4. What is the most significant phase in a genetic algorithm?
(1 point)

93% of respondents (27 of 29) answered this question correctly.

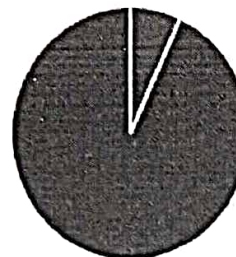
- Selection 0
- Mutation 2
- Crossover 27 ✓
- Fitness function 0



5. Why engine files are built during Inferencing a model ? (1 point)

93% of respondents (27 of 29) answered this question correctly.

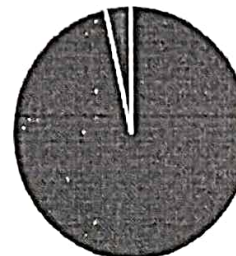
- A. To get a good frame rate 0
- B. To get good accuracy 0
- C. To optimize the model for t... 2
- D. All of the above 27 ✓



6. State true or false: PCA can be used for dimensionality reduction. (1 point)

97% of respondents (28 of 29) answered this question correctly.

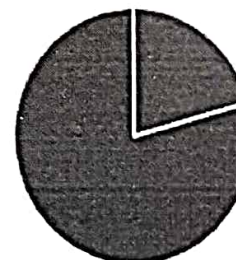
- A. True 28 ✓
- B. False 1



7. Which one of the following is not a Deep learning model (1 point)

79% of respondents (23 of 29) answered this question correctly.

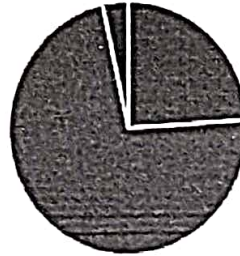
- A. Mobilenet 0
- B. VGG - 16 0
- C. Inception 6
- D. Tenet - 19 23 ✓



8. Which one of the following is a regression task? (1 point)

24% of respondents (7 of 29) answered this question correctly.

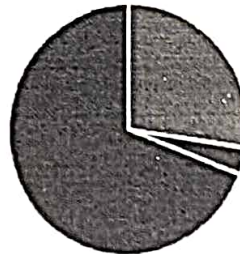
- Predict the age of a person 7 ✓
- Predict the country from wher... 0
- Predict whether the price of p... 21
- Predict whether a document is... 1



9. What is "Classification" in Machine Learning? (1 point)

69% of respondents (20 of 29) answered this question correctly.

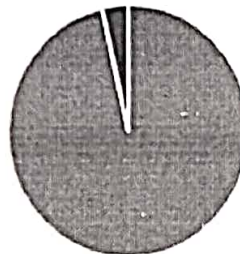
- A.Mapping a group of inputs t... 0
- B.Classifying an input to a giv... 8
- C.Predicting labels for input i... 1
- D.All of the above 20 ✓



10. How to print "Hello World" in Python? (1 point)

97% of respondents (28 of 29) answered this question correctly.

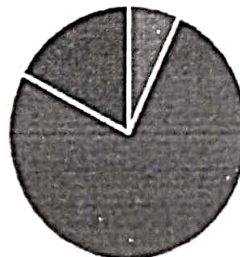
- A.Echo "Hello World" 0
- B.print("Hello World") 28 ✓
- C.p("Hello World") 1
- D.echo("Hello 0



11. Which is a categorical feature? (1 point)

76% of respondents (22 of 29) answered this question correctly.

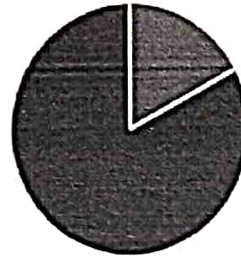
- Weight of a person 0
- Price of a book 2
- Medium of study 22 ✓
- Temperature in a place 5



12. What is Transfer Learning? (1 point)

17% of respondents (5 of 29) answered this question correctly.

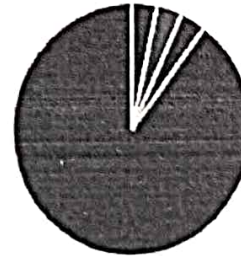
- A. Use a pre-trained model so ... 0
- B. Use a pre-trained model so t... 5 ✓
- C. Do not use a pre-trained mo... 0
- D. Both options A and B 24



13. Which is not an algorithm? (1 point)

90% of respondents (26 of 29) answered this question correctly.

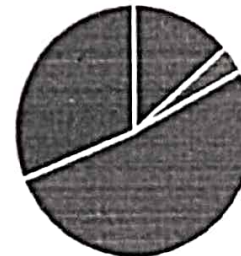
- A. Linear Regression 1
- B. Naive Bayes 1
- C. K Nearest Neighbour 1
- D. Recognition 26 ✓



14. What are the possible inputs in an ML algorithm? (1 point)

52% of respondents (15 of 29) answered this question correctly.

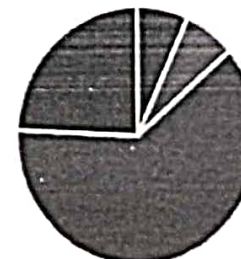
- A. Graphs 4
- B. Logs 1
- C. None of the above 15 ✓
- D. All of the above 9



15. Epoch is a (1 point)

24% of respondents (7 of 29) answered this question correctly.

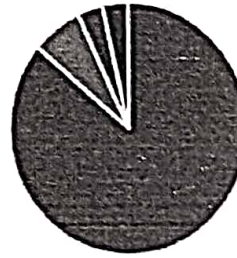
- A. Unit of weight 2
- B. A specific amount of time in ... 2
- C. Time taken to go through al... 18
- D. Time taken to go through al... 7 ✓



16. What is the difference between Training and Inference? (1 point)

86% of respondents (25 of 29) answered this question correctly.

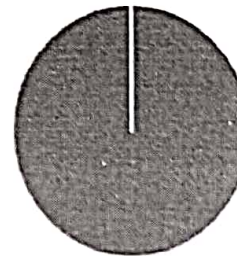
- A.Training is more compute in... 25 ✓
- B.Inference is more compute i... 2
- C.Both require the same amou... 1
- D.Depends on model and dat... 1



17. ReLU stands for (1 point)

100% of respondents (29 of 29) answered this question correctly.

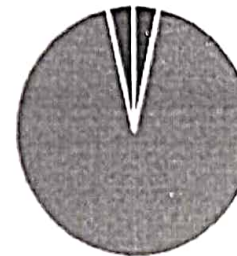
- A.Rectified Logarithmic Unit 0
- B.Rectified Linear Unit 29 ✓
- C.Repressed Logarithmic Unit 0
- D.Recurrent Linear Unit 0



18. In regression the output is (1 point)

93% of respondents (27 of 29) answered this question correctly.

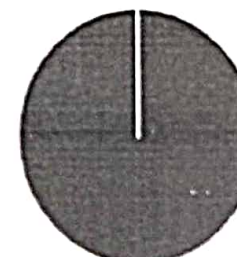
- A. Discrete 1
- B. Continuous 27 ✓
- C. Can be discrete or continuous 1
- D. Neither discrete not continuous 0



19. Real Time Decisions,Game AI,Learning Tasks,Skill Acqution and Robot Navigation are applications of (1 point)

100% of respondents (29 of 29) answered this question correctly.

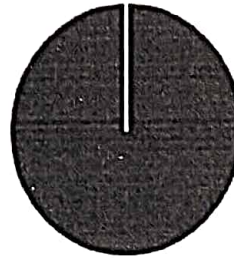
- A.Unsupervised Learning : Reg... 0
- B.Supervised Learning : Classif... 0
- C.Reinforcement Learning 29 ✓
- D.Learning and Techniques 0



20. In which kind of Machine Learning, an AI system is presented with labeled data? (1 point)

100% of respondents (29 of 29) answered this question correctly.

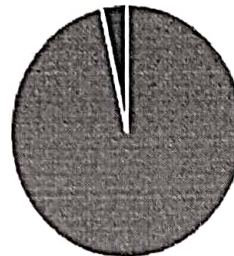
- A. Supervised Learning 29 ✓
- B. Unsupervised Learning 0
- C. Reinforcement Learning 0
- D. Learning and Techniques 0



21. Which one of the following is an unsupervised learning algorithm? (1 point)

97% of respondents (28 of 29) answered this question correctly.

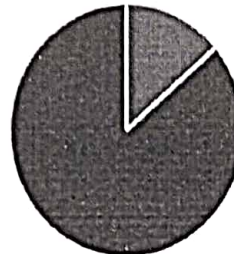
- A. KNN 0
- B. K Means 28 ✓
- C. RFC 0
- D. SVM 1



22. In general, to have a well defined learning problem, we must identify which of the following? (1 point)

86% of respondents (25 of 29) answered this question correctly.

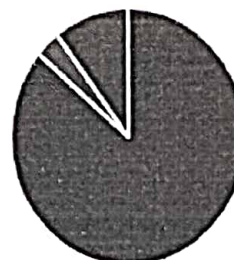
- A. The class of tasks 0
- B. The measure of performanc... 4
- C. The source of experience 0
- D. All of the above 25 ✓



23. In linear regression, the parameters are (1 point)

10% of respondents (3 of 29) answered this question correctly.

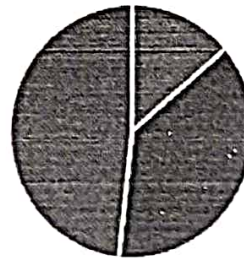
- integers 25
- in the range [0,1] 1
- value in real space 3 ✓
- value in complex space 0



24. Select the Successful applications of ML. (1 point)

48% of respondents (14 of 29) answered this question correctly.

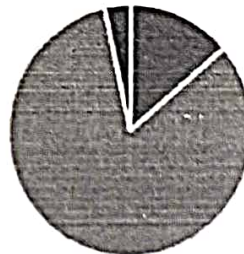
- A.Learning to recognize spoke... 0
- B.Learning to drive an autono... 4
- C.Learning to classify new astr... 11
- D.Learning to play world class ... 0
- E.All of the above 14 ✓



25. Targeted marketing, Recommended Systems, and Customer Segmentation are applications in which of the following? (1 point)

83% of respondents (24 of 29) answered this question correctly.

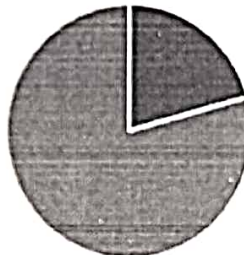
- A.Supervised Learning: Classifi... 4
- B.Unsupervised Learning: Clus... 24 ✓
- C.Unsupervised Learning: Regr... 0
- D.Reinforcement Learning 1



26. Decision trees can not be used when the variables are categorical. (1 point)

21% of respondents (6 of 29) answered this question correctly.

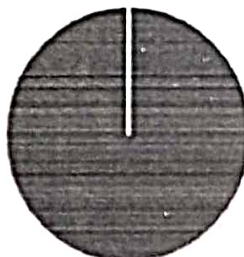
- True 6 ✓
- False 23



27. For an image recognition problem (such as recognizing a cat in a photo), which architecture ofneural network has been found to be better suited for the tasks? (1 point)

100% of respondents (29 of 29) answered this question correctly.

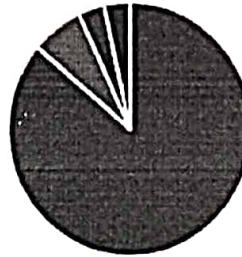
- Perceptron 0
- RNN 0
- CNN 29 ✓
- Multilayer Perceptron 0



28. After training an SVM, we (1 point)

86% of respondents (25 of 29) answered this question correctly.

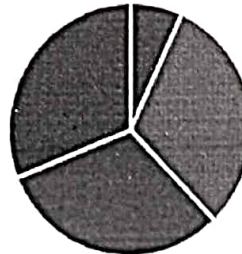
- can discard all examples whic... 25 ✓
- can not discard all examples w... 2
- can discard all examples whic... 1
- have to retain all examples tha... 1



29. In unsupervised learning, (1 point)

31% of respondents (9 of 29) answered this question correctly.

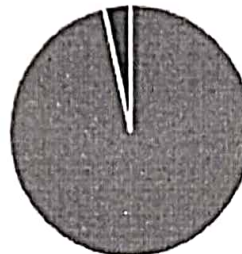
- Number of groups may be kn... 2
- Feature of groups may be kno... 9
- Both the number and feature ... 9
- Neither the number and featu... 9 ✓



30. The term machine learning was coined in which year? (1 point)

97% of respondents (28 of 29) answered this question correctly.

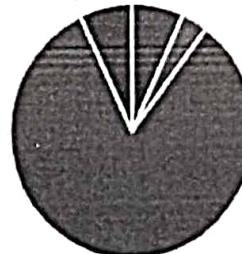
- A. 1958 0
- B.1959 28 ✓
- C.1960 1
- D.1961 0



31. The curve which is used to separate the data present in the given figure is (2 points)

83% of respondents (24 of 29) answered this question correctly.

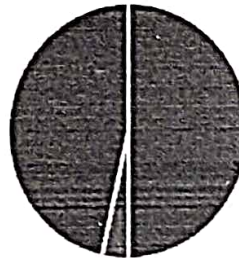
- Quadratic 2
- Cubic 1
- Linear 24 ✓
- Given Data is not sufficient 2



32. What are the two types of Supervised Learning? (2 points)

90% of respondents (26 of 29) answered this question correctly.

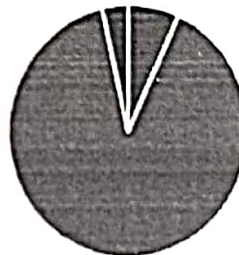
- A. Classification 28 ✓
- B. Clustering 2
- C. Progression 0
- D. Regression 26 ✓



33. One of the most common uses of Machine Learning today is in the domain of Robotics. Robotic tasks include a multitude of ML methods tailored towards navigation, robotic control and a number of other tasks. Robotic control includes controlling the actuators available to the robotic system. An example of this is control of a painting arm in automotive industries. The robotic arm must be able to paint every corner in the automotive parts while minimizing the quantity of paint wasted in the process. Which of the following learning paradigms would you select for training such a robotic arm? (2 points)

90% of respondents (26 of 29) answered this question correctly.

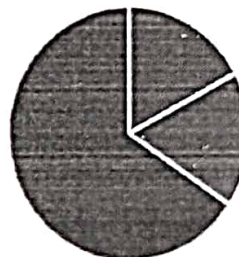
- Supervised Learning 2
- Unsupervised Learning 0
- Reinforcement Learning 26 ✓
- Hybrid Learning 1



34. In which of the applications, dimensionality reduction can be used? (2 points)

17% of respondents (5 of 29) answered this question correctly.

- Data Compression 5
- Data Visualization 0
- Both 5 ✓
- None 19



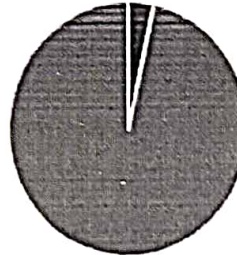
35. I am the marketing consultant of a leading e-commerce website. I have been given a task of making a system that recommends products to users based on their activity on Facebook. I realize that user-interests could be highly variable. Hence I decide to

- First, cluster the users into communities of like-minded people and
- Second, train separate models for each community to predict which product category (e.g. electronic gadgets, cosmetics, etc.) would be the most relevant to that community.

The first task is a/an _____ learning problem while the second is a/an _____ problem. (2 points)

97% of respondents (28 of 29) answered this question correctly.

- Supervised and unsupervised 1
- Unsupervised and supervised 28 ✓
- Unsupervised and unsupervised 0
- Supervised and supervised 0

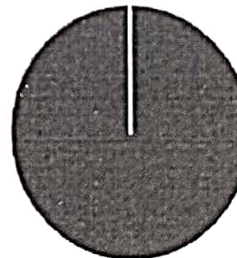


36. What is the sequence of steps followed in training a perceptron?

- For a sample input, compute an output
- Initialize weights of perceptron randomly
- Go to the next batch of dataset
- If the prediction does not match the output, change the weights (2 points)

100% of respondents (29 of 29) answered this question correctly.

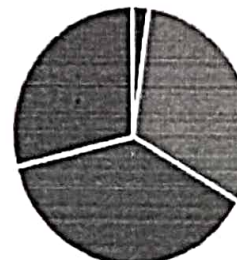
- A) 2,1,4,3 29 ✓
- B) 1,4,3,2 0
- C) 1,2,3,4 0
- D) 2,3,4,1 0



37. Which of the following is a supervised learning problem? (2 points)

48% of respondents (14 of 29) answered this question correctly.

- A) Grouping people in a social... 1
- B) Predicting credit approval b... 14 ✓
- C) Predicting rainfall based on... 17 ✓
- D) all of the above 13



38. Linear Regression is a machine learning algorithm based on _____. (2 points)

100% of respondents (29 of 29) answered this question correctly.

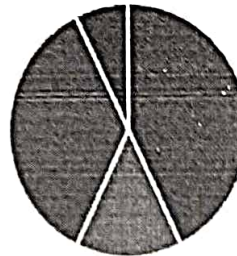
- A) unsupervised learning 0
- B) supervised learning. 29 ✓
- C) reinforcement learning 0
- D) deep learning 0



39. Which of the following are examples of classification? (2 points)

55% of respondents (16 of 29) answered this question correctly.

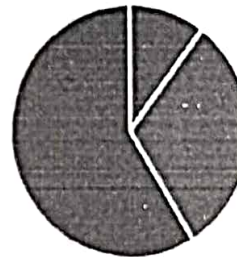
- Predicting gender using writin... 24 ✓
- Predicting temperature of a lo... 8
- Predicting whether there will ... 20 ✓
- Predicting the sales of next m... 4



40. Identify the type of learning in the following figure. (2 points)

31% of respondents (9 of 29) answered this question correctly.

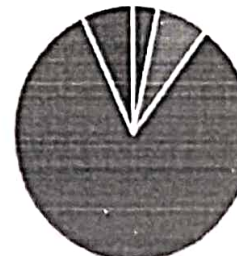
- Supervised Learning 3
- Unsupervised Learning 0
- Reinforcement Learning 9 ✓
- Deep Learning 17



41. What does the term 'outlier' mean? (2 points)

83% of respondents (24 of 29) answered this question correctly.

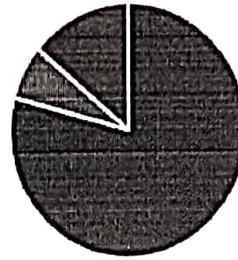
- A score that is left out of the a... 1
- The arithmetic mean 2
- An extreme value at either en... 24 ✓
- A type of variable that cannot ... 2



42. PANDAS stands for _____ (2 points)

79% of respondents (23 of 29) answered this question correctly.

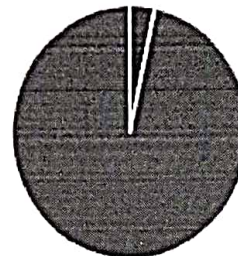
- a. Panel Data Analysis 23 ✓
- b. Panel Data analyst 2
- c. Panel Data 4
- d. Panel Dashboard 0



43. Symbol that is used to create list in python (2 points)

97% of respondents (28 of 29) answered this question correctly.

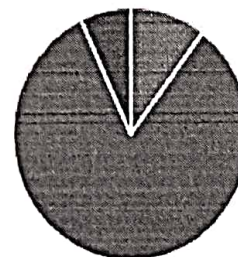
- {} 1
- () 0
- [] 28 ✓
- < > 0



44. Which one is true in multiple linear regression? (2 points)

83% of respondents (24 of 29) answered this question correctly.

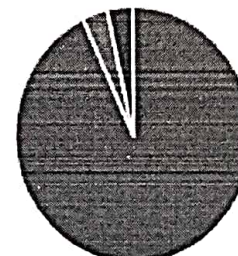
- It contains single independent... 0
- It contains single independent... 3
- It contains multiple independe... 24 ✓
- It contains multiple independe... 2



45. Annotation refers to (2 points)

93% of respondents (27 of 29) answered this question correctly.

- Labeled data 27 ✓
- Outlier data 1
- Missing values 0
- Trained data 1





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 S.P.G.Chidambare Nedar - C.Nagammal Campus
 S.P.G.C, Nagar, K.Velikulam - 625 701 (Near VIRUDHUNAGAR).

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Value Added Course on "Machine Learning with Scikit-Learn, Keras and Tensorflow"

21.02.2022 to 26.02.2022

S.No	Roll Number	Name	Project Title	Project Demo (25)	Project Presentation (15)	Total (40)
1	20UAD037	DHARESH KUMAR.N.S	Intelligent Ammunition Classifier	25	12	37
2	20UAD042	JEEVARAJAN.R		25	12	37
3	20UCS017	VARUN.B		25	12	37
4	20UCS082	BASIL TAMIL SELVAN.E	Object Classification using CNN	25	12	37
5	20UCS111	GAJENDRAN.R		21	12	33
6	20UCS112	ASHWATHKUMAR.S.S		21	12	33
7	20UCS039	SABARI KANTH.A	Pet Classification using CNN	21	12	33
8	20UAD046	GEORGE JERING.T		21	11	32
9	20UAD013	VIGNESWARAN.R.K		21	11	32
10	20UAD029	KIPSON.A.J	Ear Pods Vs Smart Phone Classification for Tech Service using CNN	21	11	32
11	20UAD040	SURYA.A		23	12	35
12	20UAD024	SHRI RAJESHWARAN.M		23	12	35
13	20UAD026	TILAK.N.G	Timepiece Classifier	23	12	35
14	20UCS048	VENKATESH KANNAN.M.S		25	12	37
15	20UCS095	SARVASH.S.S		25	12	37
16	20UCS104	YASHWANT RAM.G.A	Gadget Classification of Mobiles and Laptops	25	12	37
17	20UCS002	SAJIYA BEGUM.A		23	12	35
18	20UCS009	SRIMATHI.S		23	12	35
19	20UCS070	SANTHIYA.E	Fruit Classifier	23	12	35
20	20UAD032	DHARSHINI.V		25	11	36
21	20UAD023	YUVA SIVASAKTHI.G		25	11	36

S.No	Roll Number	Name	Project Title	Project Demo (25)	Project Presentation (15)	Total (40)
22	20UCS010	BAVA DHARANI.B	Shirt Pant Classification	25	11	36
23	20UCS060	SAHANARINI.S		25	11	36
24	20UCS036	GIRIVASAN.S.V	Intelligent Animal Classifier for Forest Department	25	11	36
25	20UCS079	MALAIAPPAN SRIKANTH.S		25	11	36
26	20UAD028	JEEVITHARAJ.D		25	11	36
27	20UAD008	SHRIDHARAN.R.B	Planes and Rockets Classification	21	11	32
28	20UAD021	PREMKUMAR.G		21	11	32
29	20UAD035	RAGESH.M		21	11	32


Coordinator (s)


HoD / CSE

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Value Added Course on

"Machine Learning with Scikit-Learn, Keras and Tensorflow"

21.02.2022 to 26.02.2022

S.No	Roll Number	Name	Marks (60)
1	20UAD008	SHRIDHARAN.R.B	49
2	20UAD013	VIGNESWARAN.R.K	48
3	20UAD021	PREMKUMAR.G	41
4	20UAD023	YUVA SIVASAKTHI.G	49
5	20UAD024	SHRI RAJESHWARAN.M	47
6	20UAD026	TILAK.N.G	49
7	20UAD028	JEEVITHARAJ.D	43
8	20UAD029	KIPSON.A.J	48
9	20UAD032	DHARSHINI.V	49
10	20UAD035	RAGESH.M	47
11	20UAD037	DHARESH KUMAR.N.S	49
12	20UAD040	SURYA.A	47
13	20UAD042	JEEVARAJAN.R	49
14	20UAD046	GEORGE JERING.T	46
15	20UCS002	SAJIYA BEGUM.A	37
16	20UCS009	SRIMATHI.S	41
17	20UCS010	BAVA DHARANI.B	54
18	20UCS017	VARUN.B	49
19	20UCS036	GIRIVASAN.S.V	41
20	20UCS039	SABARI KANTH.A	28
21	20UCS048	VENKATESH KANNAN.M.S	38
22	20UCS060	SAHANARINI.S	46
23	20UCS070	SANTHIYA.E	50
24	20UCS079	MALAIAPPAN SRIKANTH.S	48
25	20UCS082	BASIL TAMIL SELVAN.E	45
26	20UCS095	SARVASH.S.S	42
27	20UCS104	YASHWANT RAM.G.A	45
28	20UCS111	GAJENDRAN.R	43
29	20UCS112	ASHWATHKUMAR.S.S	43

A. Ramy
 Coordinator (s)

Menar
 HoD / CSE



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 S.P.G.C. Nagar, K.Vellakulam - 625 701 (Near VIRUDHUNAGAR).

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Value Added Course on "Machine Learning with Scikit-Learn, Keras and Tensorflow"

21.02.2022 to 26.02.2022

S.No	Roll Number	Name	Internal (40)	External (60)	Total (100)
1	20UAD008	SHRIDHARAN.R.B	32	49	81
2	20UAD013	VIGNESWARAN.R.K	32	48	80
3	20UAD021	PREMKUMAR.G	32	41	73
4	20UAD023	YUVA SIVASAKTHI.G	36	49	85
5	20UAD024	SHRI RAJESHWARAN.M	35	47	82
6	20UAD026	TILAK.N.G	35	49	84
7	20UAD028	JEEVITHARAJ.D	36	43	79
8	20UAD029	KIPSON.A.J	32	48	80
9	20UAD032	DHARSHINI.V	36	49	85
10	20UAD035	RAGESH.M	32	47	79
11	20UAD037	DHARESH KUMAR.N.S	37	49	86
12	20UAD040	SURYA.A	35	47	82
13	20UAD042	JEEVARAJAN.R	37	49	86
14	20UAD046	GEORGE JERING.T	32	46	78
15	20UCS002	SAJIYA BEGUM.A	35	37	72
16	20UCS009	SRIMATHI.S	35	41	76
17	20UCS010	BAVA DHARANI.B	36	54	90
18	20UCS017	VARUN.B	37	49	86
19	20UCS036	GIRIVASAN.S.V	36	41	77
20	20UCS039	SABARI KANTH.A	33	28	61
21	20UCS048	VENKATESH KANNAN.M.S	37	38	75
22	20UCS060	SAHANARINI.S	36	46	82
23	20UCS070	SANTHIYA.E	35	50	85
24	20UCS079	MALAIAPPAN SRIKANTH.S	36	48	84
25	20UCS082	BASIL TAMIL SELVAN.E	37	45	82
26	20UCS095	SARVASH.S.S	37	42	79
27	20UCS104	YASHWANT RAM.G.A	37	45	82
28	20UCS111	GAJENDRAN.R	33	43	76
29	20UCS112	ASHWATHKUMAR.S.S	33	43	76

[Signature]
 Coordinator (s)

[Signature]
 HoD / CSE

Machine Learning with Scikit-Learn, Keras & Tensorflow - 21.02.2022

28
Responses

01:15
Average time to complete

Active
Status

1. Name of the Participant (Eg:Mr/Ms/)

28
Responses

Latest Responses

"MR.A.SURYA"

"Ashwath"

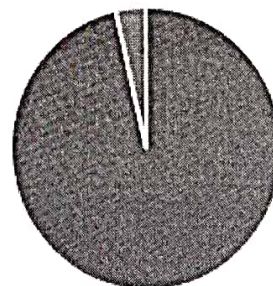
"Yashwant Ram"

2 respondents (8%) answered **kumar** for this question.

ASAJIYA BEGUM Tamil
sivasakthi Jeevitha raj Basil Mshri Rajeshwaran Selvan
Yashwant Ram Kipson Aj **kumar G** MSVenkatesh kannan
R MsBava Dharani Tilak NG MsSahana riniS
Mr DHARESH Prem Jeevarajan

2. Designation

- Student 27
- Staff 1



3. Roll No

28

Responses

Latest Responses

"20UAD040"

"20ucs112"

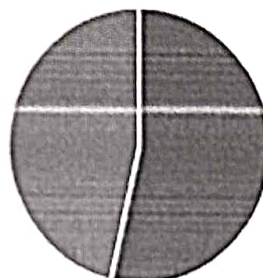
"20ucs104"

1 respondents (4%) answered 20ucs082 for this question.

20UAD026 20uad023 20uad008 T0706214 20uad021
20ucs104 20UAD035
20UCS002 20UCS017 20ucs082 20UAD013 20UCS048
20uad029 20uad042 20UAD037 20UCS060 20ucs095
20ucs009 20UCS070 20ucs036

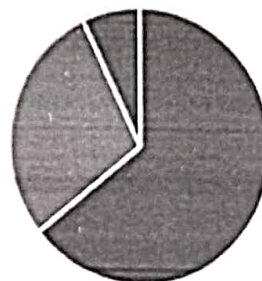
4. Department

- Computer Science and Engine... 15
- Artificial Intelligence and Data... 13



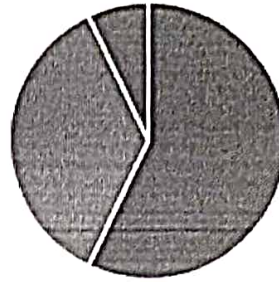
5. Were objectives of the Program met?

- Completely agree 18
- Strongly agree 8
- Agree 2
- Partly Agree 0
- Disagree 0



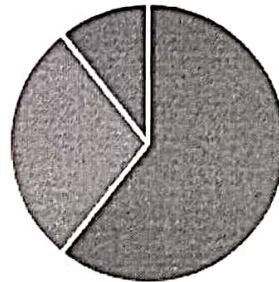
6. Was the Program sequence well planned?

- Completely agree 16
- Strongly agree 10
- Agree 2
- Partly Agree 0
- Disagree 0



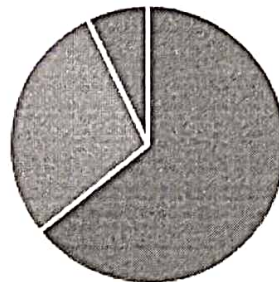
7. Were the lectures clear and easy to understand?

- Completely agree 17
- Strongly agree 8
- Agree 3
- Partly Agree 0
- Disagree 0



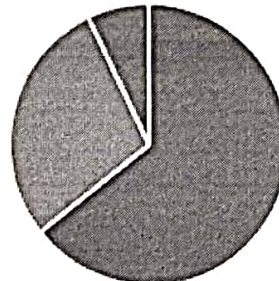
8. Whether the instructors encouraged the interaction?

- Completely agree 18
- Strongly agree 8
- Agree 2
- Partly Agree 0
- Disagree 0



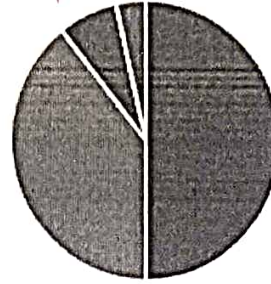
9. The information delivered at this Program was highly beneficial.

- Completely agree 18
- Strongly agree 8
- Agree 2
- Partly Agree 0
- Disagree 0



10. Organization of the Program was Good

● Completely agree	14
● Strongly agree	11
● Agree	2
● Partly Agree	0
● Disagree	1



11. Comments/Suggestions

22
Responses

Latest Responses
"NO COMMENTS"
"No"
"--"

4 respondents (20%) answered **No** for this question.

explanation about projects

Good **No** **google colab**
students **code**
directly execute **Nil** **simple examples**
Great **examples of each topic**

Mural

Respondent



2

JEEVITHARAJ.D(AD) 

00:42
Time to complete



1. Name of the Participant (Eg:Mr/Ms/) *

Jeevitha raj

2. Designation *

Student

Staff

3. Roll No *

20uad028

4. Department *

Computer Science and Engineering

Artificial Intelligence and Data Science

5. Were objectives of the Program met? *

Completely agree

Strongly agree

Agree

Partly Agree

Disagree

6. Was the Program sequence well planned? *

Completely agree

Strongly agree

Agree

Partly Agree

Disagree

7. Were the lectures clear and easy to understand? *

Completely agree

Strongly agree

Agree

Partly Agree

Disagree

8. Whether the instructors encouraged the interaction? *

Completely agree

Strongly agree

Agree

Partly Agree

Disagree

9. The information delivered at this Program was highly beneficial. *

- Completely agree
- Strongly agree
- Agree
- Partly Agree
- Disagree

10. Organization of the Program was Good *

- Completely agree
- Strongly agree
- Agree
- Partly Agree
- Disagree

11. Comments/Suggestions

Machine Learning with Scikit-Learn, Keras & Tensorflow - 22.02.2022

26
Responses

01:06
Average time to complete

Active
Status

1. Name of the Participant (Eg:Mr/Ms/)

26
Responses

Latest Responses

"George jerin"

"MR.A.SURYA"

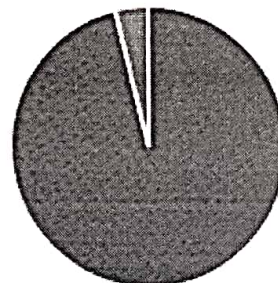
"A.SABARI KANTH"

2 respondents (8%) answered S for this question.

Rajeshwaran ASABARI KANTH SAHANARINI
kannan Jeevitha Raj Ms S Ms DHARSHINIV George jerin
Mshri Mr MsBava Dharani
Yashwant Ram G Yuva sivasakthi ASAJIYA BEGUM
Jeevarajan DHARESH KUMAR Tilak ng Venkatesh

2. Designation

- Student 25
- Staff 1



3. Roll No

26
Responses

Latest Responses

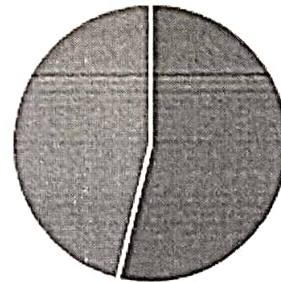
"20uad046"
"20UAD040"
"20UCS039"

1 respondents (4%) answered 20uad023 for this question.

20UAD029
20UCS070 20uad042 20ucs017 20uad013
20uad024 20ucs104 20uad023 20UAD037 20UCS079
20ucs009 20UCS002 20UAD035 20UCS060 T0706214
20UAD032 20ucs095 20UAD040 20UCS048 20ucs010

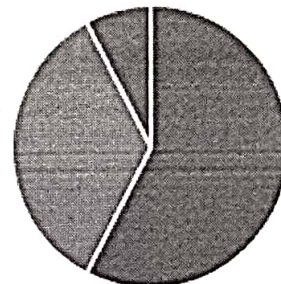
4. Department

- Computer Science and Engine... 14
- Artificial Intelligence and Data... 12



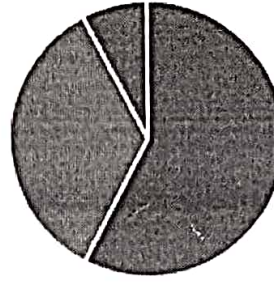
5. Were objectives of the Program met?

- Completely agree 15
- Strongly agree 9
- Agree 2
- Partly Agree 0
- Disagree 0



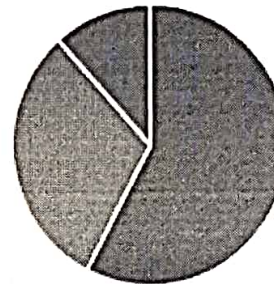
6. Was the Program sequence well planned?

- Completely agree 15
- Strongly agree 9
- Agree 2
- Partly Agree 0
- Disagree 0



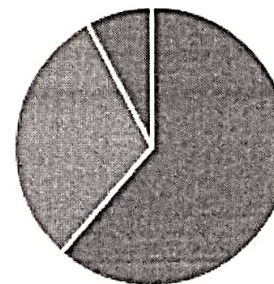
7. Were the lectures clear and easy to understand?

- Completely agree 15
- Strongly agree 8
- Agree 3
- Partly Agree 0
- Disagree 0



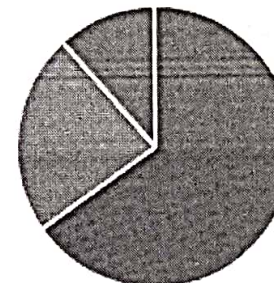
8. Whether the instructors encouraged the interaction?

- Completely agree 16
- Strongly agree 8
- Agree 2
- Partly Agree 0
- Disagree 0



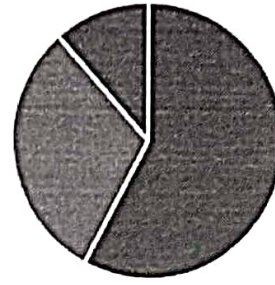
9. The information delivered at this Program was highly beneficial.

- Completely agree 17
- Strongly agree 6
- Agree 3
- Partly Agree 0
- Disagree 0



10. Organization of the Program was Good

- Completely agree 15
- Strongly agree 8
- Agree 3
- Partly Agree 0
- Disagree 0



11. Comments/Suggestions

17
Responses

Latest Responses
"NO COMMENTS"

1 respondents (6%) answered **informative session** for this question.

Good Great

informative session

Nil

NO COMMENTS Examples

P. P. P. P.

Mural

Respondent



1

SHRI RAJESHWARAN.M(AD)



00:54
Time to complete



1. Name of the Participant (Eg:Mr/Ms/) *

M.shri Rajeshwaran

2. Designation *

Student

Staff

3. Roll No *

20uad024

4. Department *

Computer Science and Engineering

Artificial Intelligence and Data Science

5. Were objectives of the Program met? *

Completely agree

Strongly agree

Agree

Partly Agree

Disagree

6. Was the Program sequence well planned? *

Completely agree

Strongly agree

Agree

Partly Agree

Disagree

7. Were the lectures clear and easy to understand? *

Completely agree

Strongly agree

Agree

Partly Agree

Disagree

8. Whether the instructors encouraged the interaction? *

Completely agree

Strongly agree

Agree

Partly Agree

Disagree

9. The information delivered at this Program was highly beneficial. *

- Completely agree
- Strongly agree
- Agree
- Partly Agree
- Disagree

10. Organization of the Program was Good *

- Completely agree
- Strongly agree
- Agree
- Partly Agree
- Disagree

11. Comments/Suggestions

Machine Learning with Scikit-Learn, Keras & Tensorflow - 23.02.2022

29
Responses

00:55
Average time to complete

Active
Status

1. Name of the Participant (Eg:Mr/Ms/)

29
Responses

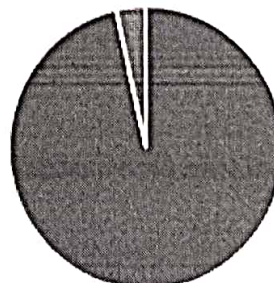
Latest Responses
"Rk.Vigneswaran"
"S.MALAIAPPANSRIKANTH"
"Mr Venkatesh kannan"

2 respondents (7%) answered **kumar** for this question.

ASAJIYA BEGUM R Tilak NG MsBava Dharani SAHANARINI
Jeevarajan Asabari kanth **kumar Mr** G
Yashwant Ram Jeevitha raj George jerinT N
Prem Mshri Rajeshwaran Ms G Yuva sivasakthi
DHARESH Venkatesh kannan

2. Designation

- Student 28
- Staff 1



3. Roll No

29
Responses

Latest Responses

"20uad013"

"20UCS079"

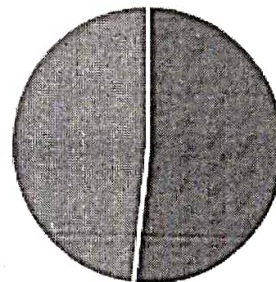
"20ucs048"

1 respondents (3%) answered T0706214 for this question.

20UCS112 20UAD029
20ucs104 20ucs017 20uad023 20uad008 20UCS002
20UCS070 20ucs095 T0706214 20UAD035 20ucs048
20uad021 20UAD037 20UCS060 20UAD040 20uad013
20uad024 20uad042 20UCS039

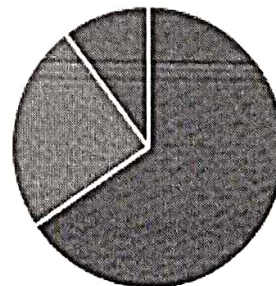
4. Department

- Computer Science and Engine... 15
- Artificial Intelligence and Data... 14



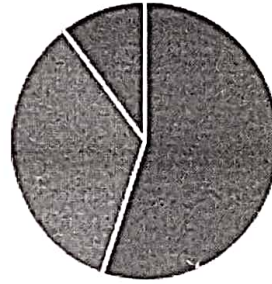
5. Were objectives of the Program met?

- Completely agree 19
- Strongly agree 7
- Agree 3
- Partly Agree 0
- Disagree 0



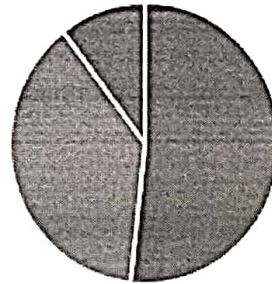
6. Was the Program sequence well planned?

- Completely agree 16
- Strongly agree 10
- Agree 3
- Partly Agree 0
- Disagree 0



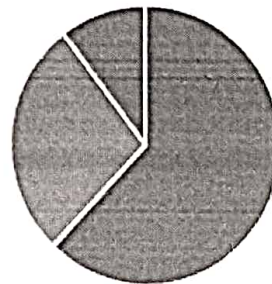
7. Were the lectures clear and easy to understand?

- Completely agree 15
- Strongly agree 11
- Agree 3
- Partly Agree 0
- Disagree 0



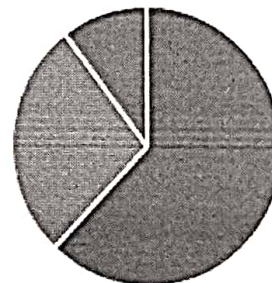
8. Whether the instructors encouraged the interaction?

- Completely agree 18
- Strongly agree 8
- Agree 3
- Partly Agree 0
- Disagree 0



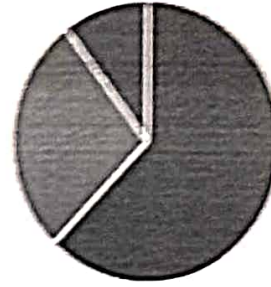
9. The information delivered at this Program was highly beneficial.

- Completely agree 18
- Strongly agree 8
- Agree 3
- Partly Agree 0
- Disagree 0



10. Organization of the Program was Good

- Completely agree 18
- Strongly agree 8
- Agree 3
- Partly Agree 0
- Disagree 0



11. Comments/Suggestions

15

Responses

Latest Responses

1 respondents (7%) answered **informative session** for this question.

informative session Nil
Good No comments -


F. n *(A)*

Nil

Respondent



3

GIRIVASAN.S.V(CS) 

00:50
Time to complete



1. Name of the Participant (Eg:Mr/Ms/) *

Girivasan.S.V

2. Designation *

Student

Staff

3. Roll No *

20ucs036

4. Department *

Computer Science and Engineering

Artificial Intelligence and Data Science

5. Were objectives of the Program met? *

Completely agree

Strongly agree

Agree

Partly Agree

Disagree

6. Was the Program sequence well planned? *

Completely agree

Strongly agree

Agree

Partly Agree

Disagree

7. Were the lectures clear and easy to understand? *

Completely agree

Strongly agree

Agree

Partly Agree

Disagree

8. Whether the instructors encouraged the interaction? *

Completely agree

Strongly agree

Agree

Partly Agree

Disagree

9. The information delivered at this Program was highly beneficial. *

Completely agree

Strongly agree

Agree

Partly Agree

Disagree

10. Organization of the Program was Good *

Completely agree

Strongly agree

Agree

Partly Agree

Disagree

11. Comments/Suggestions

-

Machine Learning with Scikit-Learn, Keras & Tensorflow - 24.02.2022

27
Responses

01:11
Average time to complete

Active
Status

1. Name of the Participant (Eg:Mr/Ms/)

27
Responses

Latest Responses

"Santhiya.E "

"Ms.Bava Dharani"

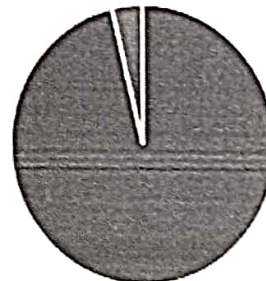
"shridharan"

2 respondents (7%) answered **KUMAR** for this question.

kannan MShri Rajeshwaran Tilak NG MsBava Dharani DHARESH
ASAJIYA BEGUM N **KUMAR** G Yuva sivasakthi Mr
Ashwath Kumar Venkatesh
premkumar g George Jerin Asabari kanth Ms MrJeevarajan R
Varun MrJeevitha SAHANARINI

2. Designation

- Student 26
- Staff 1



3. Roll No

27
Responses

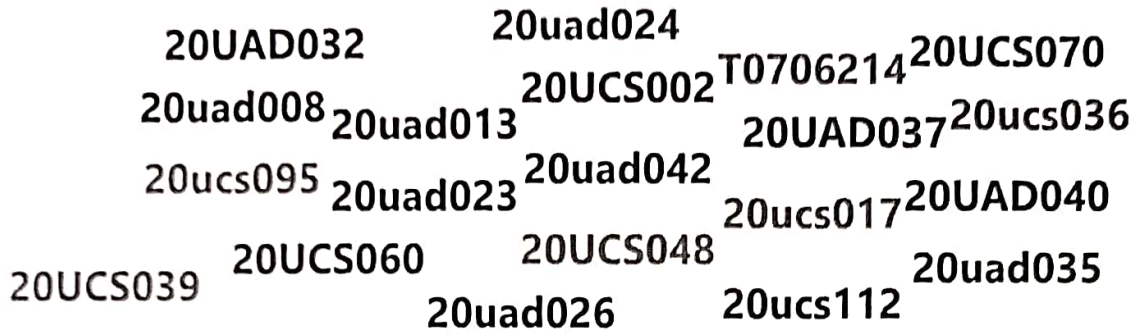
Latest Responses

"20UCS070 "

"20ucs010"

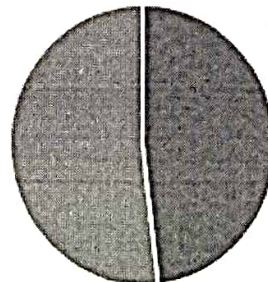
"20uad008"

1 respondents (4%) answered 20uad042 for this question.



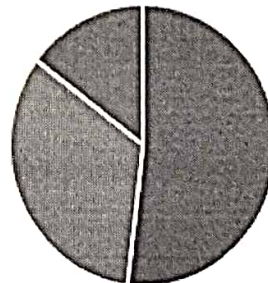
4. Department

- Computer Science and Engine... 13
- Artificial Intelligence and Data... 14



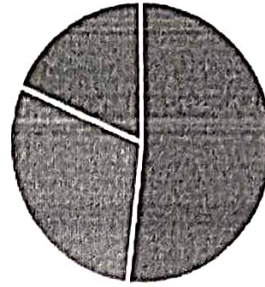
5. Were objectives of the Program met?

- Completely agree 14
- Strongly agree 9
- Agree 4
- Partly Agree 0
- Disagree 0



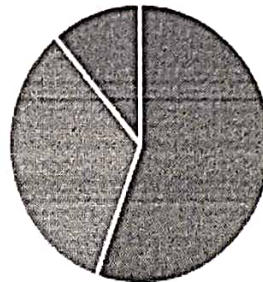
6. Was the Program sequence well planned?

- Completely agree 14
- Strongly agree 8
- Agree 5
- Partly Agree 0
- Disagree 0



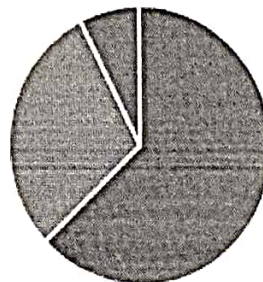
7. Were the lectures clear and easy to understand?

- Completely agree 15
- Strongly agree 9
- Agree 3
- Partly Agree 0
- Disagree 0



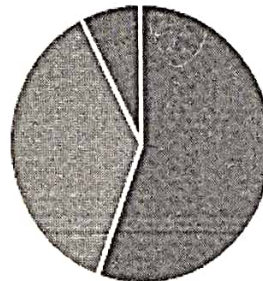
8. Whether the instructors encouraged the interaction?

- Completely agree 17
- Strongly agree 8
- Agree 2
- Partly Agree 0
- Disagree 0



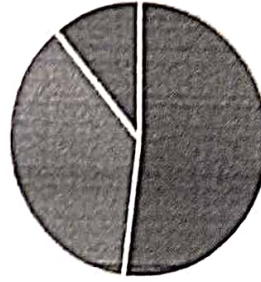
9. The information delivered at this Program was highly beneficial.

- Completely agree 15
- Strongly agree 10
- Agree 2
- Partly Agree 0
- Disagree 0



10. Organization of the Program was Good

<input checked="" type="radio"/> Completely agree	14
<input type="radio"/> Strongly agree	10
<input type="radio"/> Agree	3
<input type="radio"/> Partly Agree	0
<input type="radio"/> Disagree	0



11. Comments/Suggestions

12
Responses

Latest Responses

": "
"Nil"
"no"

4 respondents (33%) answered No for this question.

Good No Nil
Nope


[Handwritten signature]

Mural

Respondent



4

VARUN.B(CS) 

01:34
Time to complete



1. Name of the Participant (Eg:Mr/Ms/) *

VARUN.B

2. Designation *

Student

Staff

3. Roll No *

20ucs017

4. Department *

Computer Science and Engineering

Artificial Intelligence and Data Science

5. Were objectives of the Program met? *

Completely agree

Strongly agree

Agree

Partly Agree

Disagree

6. Was the Program sequence well planned? *

Completely agree

Strongly agree

Agree

Partly Agree

Disagree

7. Were the lectures clear and easy to understand? *

Completely agree

Strongly agree

Agree

Partly Agree

Disagree

8. Whether the instructors encouraged the interaction? *

Completely agree

Strongly agree

Agree

Partly Agree

Disagree

9. The information delivered at this Program was highly beneficial. *

Completely agree

Strongly agree

Agree

Partly Agree

Disagree

10. Organization of the Program was Good *

Completely agree

Strongly agree

Agree

Partly Agree

Disagree

11. Comments/Suggestions

Machine Learning with Scikit-Learn, Keras & Tensorflow - 25.02.2022

28
Responses

01:20
Average time to complete

Active
Status

1. Name of the Participant (Eg:Mr/Ms/)

28
Responses

Latest Responses

"Rk.Vigneswaran"

"Ms.S.SRIMATHI "

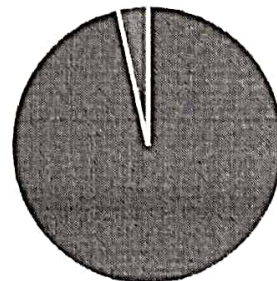
"G. Yuva sivasakthi "

2 respondents (7%) answered S for this question.

SAHANARINI MrJeevarajan R Ashwath
 Dharani MShri Rajeshwaran G Yuva sivasakthi George JerinT
 ASAJIYA BEGUM **KUMAR S** **Ms** Bava
 Yashwant ram DHARESH KUMAR MSVenkatesh kannan Tilak NG
 AJKIPSON Premkumar G RGAJENDRAN

2. Designation

- Student 27
- Staff 1



3. Roll No

28

Responses

Latest Responses

"20uad013"

"20ucs009 "

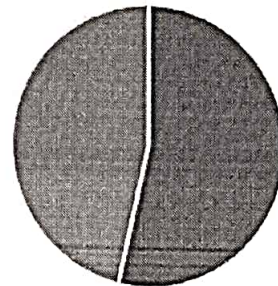
"20uad023 "

1 respondents (4%) answered 20UAD037 for this question.

20ucs036
20ucs09520UAD040 20UCS002 20ucs104 20ucs111
20uad013 20uad035 20UAD037 20ucs017 T0706214
20UAD029 20UCS048 20UCS060 20uad042 20uad032
20UCS039 20uad023 20UCS070 20uad026

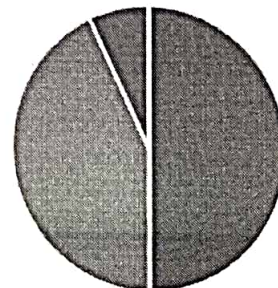
4. Department

- Computer Science and Engine... 15
- Artificial Intelligence and Data... 13



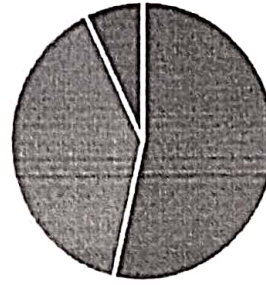
5. Were objectives of the Program met?

- Completely agree 14
- Strongly agree 12
- Agree 2
- Partly Agree 0
- Disagree 0



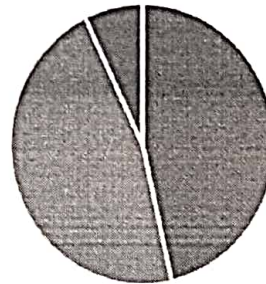
6. Was the Program sequence well planned?

- Completely agree 15
- Strongly agree 11
- Agree 2
- Partly Agree 0
- Disagree 0



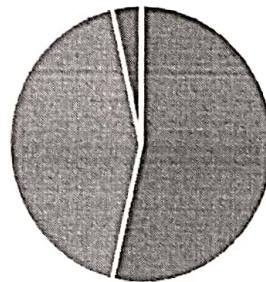
7. Were the lectures clear and easy to understand?

- Completely agree 13
- Strongly agree 13
- Agree 2
- Partly Agree 0
- Disagree 0



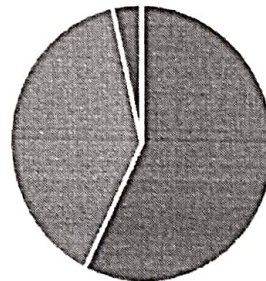
8. Whether the instructors encouraged the interaction?

- Completely agree 15
- Strongly agree 12
- Agree 1
- Partly Agree 0
- Disagree 0



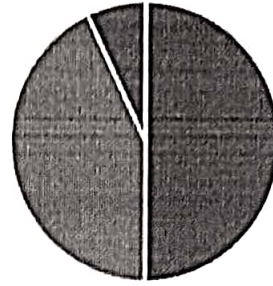
9. The information delivered at this Program was highly beneficial.

- Completely agree 16
- Strongly agree 11
- Agree 1
- Partly Agree 0
- Disagree 0



10. Organization of the Program was Good

- Completely agree 14
- Strongly agree 12
- Agree 2
- Partly Agree 0
- Disagree 0



11. Comments/Suggestions

14
Responses

Latest Responses
"Good"
"No"

2 respondents (14%) answered **lab** for this question.


speed of our network Nil NO COMMENTS
lab system lab Good
system specifications hard network of our lab

Mural

Respondent



9

BAVA DHARANI.B(CS) 

01:01
Time to complete



1. Name of the Participant (Eg:Mr/Ms/) *

Ms.Bava Dharani

2. Designation *

Student

Staff

3. Roll No *

20ucs010

4. Department *

Computer Science and Engineering

Artificial Intelligence and Data Science

5. Were objectives of the Program met? *

Completely agree

Strongly agree

Agree

Partly Agree

Disagree

6. Was the Program sequence well planned? *

Completely agree

Strongly agree

Agree

Partly Agree

Disagree

7. Were the lectures clear and easy to understand? *

Completely agree

Strongly agree

Agree

Partly Agree

Disagree

8. Whether the instructors encouraged the interaction? *

Completely agree

Strongly agree

Agree

Partly Agree

Disagree

9. The information delivered at this Program was highly beneficial. *

- Completely agree
- Strongly agree
- Agree
- Partly Agree
- Disagree

10. Organization of the Program was Good *

- Completely agree
- Strongly agree
- Agree
- Partly Agree
- Disagree

11. Comments/Suggestions

Nil

Machine Learning with Scikit-Learn, Keras & Tensorflow - 26.02.2022.

26

Responses

01:10

Average time to complete

Active

Status

1. Name of the Participant (Eg:Mr/Ms/)

26

Responses

Latest Responses

"Jeevitha raj "

"S.S.Sarvash "

"M.S.Venkatesh Kannan"

1 respondents (4%) answered **G Yuva sivasakthi** for this question.

Yashwant Ram ASHWATH SAHANARINI **RKVigneswaran KUMAR**
RageshM DHARESH KUMARNS ASAJIYA BEGUM **SanthiyaE**
MShri Rajeshwaran G Yuva sivasakthi **MsBava Dharani**
Tilak NG **George JerinT** **ASabari kanth** **MsAJKIPSON**
MsVDHARSHINI **Jeevitha raj** **MSVenkatesh Kannan**

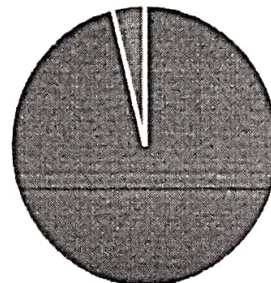
2. Designation

● Student

25

● Staff

1



3. Roll No

26
Responses

Latest Responses

"20uad028 "

"20ucs095"

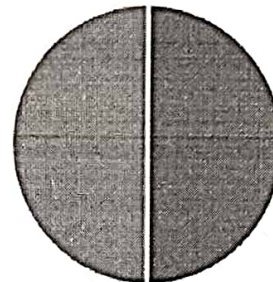
"20UCS048"

2 respondents (8%) answered 20UAD035 for this question.

20ucs095 20ucs017 20UCS060 20UAD042 20UCS039
20uad046 20UCS070 **20UAD035** 20UAD040 20UAD029
20UCS048 20uad013 20uad023 20UAD037 20uad026
20UCS112 20UCS002 20ucs104 20UAD032
20ucs009

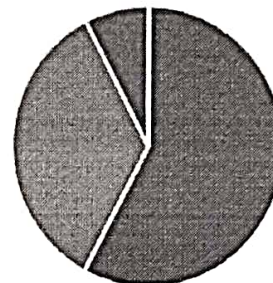
4. Department

- Computer Science and Engine... 13
- Artificial Intelligence and Data... 13



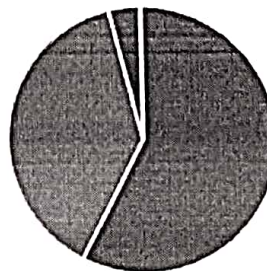
5. Were objectives of the Program met?

- Completely agree 15
- Strongly agree 9
- Agree 2
- Partly Agree 0
- Disagree 0



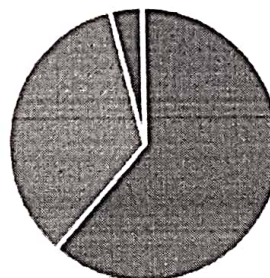
6. Was the Program sequence well planned?

- Completely agree 15
- Strongly agree 10
- Agree 1
- Partly Agree 0
- Disagree 0



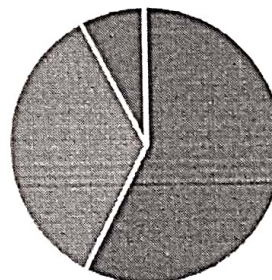
7. Were the lectures clear and easy to understand?

- Completely agree 16
- Strongly agree 9
- Agree 1
- Partly Agree 0
- Disagree 0



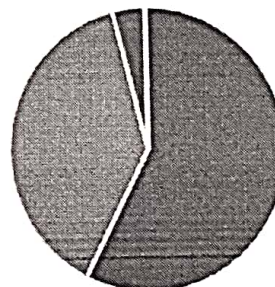
8. Whether the instructors encouraged the interaction?

- Completely agree 15
- Strongly agree 9
- Agree 2
- Partly Agree 0
- Disagree 0



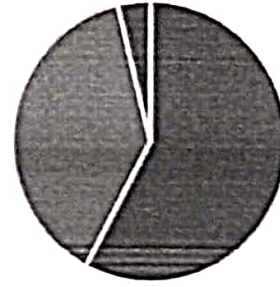
9. The information delivered at this Program was highly beneficial.

- Completely agree 15
- Strongly agree 10
- Agree 1
- Partly Agree 0
- Disagree 0



10. Organization of the Program was Good

<input checked="" type="radio"/> Completely agree	15
<input checked="" type="radio"/> Strongly agree	10
<input checked="" type="radio"/> Agree	1
<input checked="" type="radio"/> Partly Agree	0
<input checked="" type="radio"/> Disagree	0



11. Comments/Suggestions

11

Responses

Latest Responses

1 respondents (9%) answered **slow** for this question.

NO COMMENTS

System slow issues

Nil Good

Handwritten marks: a checkmark and a circle with a checkmark.

Handwritten signature: Mural

Respondent



01:30
Time to complete



1. Name of the Participant (Eg:Mr/Ms/) *

2. Designation *

Student

Staff

3. Roll No *

4. Department *

Computer Science and Engineering

Artificial Intelligence and Data Science

5. Were objectives of the Program met? *

Completely agree

Strongly agree

Agree

Partly Agree

Disagree

6. Was the Program sequence well planned? *

Completely agree

Strongly agree

Agree

Partly Agree

Disagree

7. Were the lectures clear and easy to understand? *

Completely agree

Strongly agree

Agree

Partly Agree

Disagree

8. Whether the instructors encouraged the interaction? *

Completely agree

Strongly agree

Agree

Partly Agree

Disagree

9. The information delivered at this Program was highly beneficial. *

- Completely agree
- Strongly agree
- Agree
- Partly Agree
- Disagree

10. Organization of the Program was Good *

- Completely agree
- Strongly agree
- Agree
- Partly Agree
- Disagree

11. Comments/Suggestions

Nothing to say



(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)
S.P.G.Chidambara Nadar - C.Nagammal Campus
S.P.G.C. Nagar, K.Vellakulam - 625 701 (Near VIRUDHUNAGAR).

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Value Added Course on “Machine Learning with Scikit-Learn, Keras and Tensorflow”

21.02.2022 to 26.02.2022

Resource Persons : Mr.Farhadh Manaz,

Junior AI Developer, Quantanics TechServ Pvt. Ltd., Madurai.

Mr.K.Vasanth,

Junior AI Developer, Quantanics TechServ Pvt. Ltd., Madurai.

Report

Department of Computer Science and Engineering jointly organized a Value Added Course on “Machine Learning with Scikit-Learn, Keras and Tensorflow” with Quantanics TechServ Pvt. Ltd., from 21.02.2022 to 26.02.2022. Totally, 29 students of II CSE & AD took part in this course; out of which 14 students are from II AD and 15 students are from II CSE. Dr.A.Meenakshi, Head of the Department of CSE welcomed the resource persons Mr.Farhadh Manaz and Mr.K.Vasanth from Quantanics TechServ Pvt. Ltd, Madurai and the coordinators introduced the resource persons.

The students learnt the basic theory underlying machine learning and artificial intelligence. They installed packages in python and coded simple programs using NumPy and Pandas. They acquired knowledge on various machine learning techniques such as classification, clustering and regression. They trained the machine learning models using google colab.

After that, the need of Jetson Nano device was introduced to the students. Then, they learnt how to use Jetson Nano for model selection, tuning parameters, collection and processing Datasets. During the session, students utilized the deep learning models and video processing techniques in real time using Jetson nano. They also utilized the deep learning models and audio processing techniques in real time using Jetson nano. They developed projects using different machine learning algorithms to solve problems of moderate complexity.

The resource persons conducted the course in a very interactive manner. Students had practical sessions along with theory concepts. The six days programme was very useful for their career development. For all the six days, the feedback was collected from the students. The students carried out a project in groups. MCQ based assessment and project evaluation was done finally.

The lectures enlightened the students to gain more knowledge about how to apply the algorithms to a real-world problem by optimizing the models learned and how to report on the expected accuracy that can be achieved by applying the models.


Course Coordinator (s)


VAC Coordinator


HoD-CSE

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Value Added Course on "Machine Learning with Scikit-Learn, Keras and Tensorflow"

21.02.2022 to 26.02.2022

Resource Person : Mr.Farhadh Manaz,

Junior AI Developer, Quantanics TechServ Pvt. Ltd., Madurai.

Mr.K.Vasanth,

Junior AI Developer, Quantanics TechServ Pvt. Ltd., Madurai.

S.No	Dept.	Section	Roll No	Student Name
1.	AD		20UAD008	SHRIDHARAN.R.B
2.	AD		20UAD013	VIGNESWARAN.R.K
3.	AD		20UAD021	PREMKUMAR.G
4.	AD		20UAD023	YUVA SIVASAKTHI.G
5.	AD		20UAD024	SHRI RAJESHWARAN.M
6.	AD		20UAD026	TILAK.N.G
7.	AD		20UAD028	JEEVITHARAJ.D
8.	AD		20UAD029	KIPSON.A.J
9.	AD		20UAD032	DHARSHINI.V
10.	AD		20UAD035	RAGESH.M
11.	AD		20UAD037	DHARESH KUMAR.N.S
12.	AD		20UAD040	SURYA.A
13.	AD		20UAD042	JEEVARAJAN
14.	AD		20UAD046	GEORGE JERING.T

PC

S.No	Dept.	Section	Roll No	Student Name
15.	CSE	A	20UCS010	BAVA DHARANI.B
16.	CSE	A	20UCS017	VARUN.B
17.	CSE	A	20UCS039	SABARI KANTH.A
18.	CSE	A	20UCS060	SAHANARINI.S
19.	CSE	A	20UCS082	BASIL TAMIL SELVAN.E
20.	CSE	A	20UCS111	GAJENDRAN.R
21.	CSE	B	20UCS002	SAJIYA BEGUM.A
22.	CSE	B	20UCS009	SRIMATHI.S
23.	CSE	B	20UCS036	GIRIVASAN.S.V
24.	CSE	B	20UCS048	VENKATESH KANNAN.M.S
25.	CSE	B	20UCS070	SANTHIYA.E
26.	CSE	B	20UCS079	MALAIAPPAN SRIKANTH.S
27.	CSE	B	20UCS095	SARVASH.S.S
28.	CSE	B	20UCS104	YASHWANT RAM.G.A
29.	CSE	B	20UCS112	ASHWATHKUMAR.S.S

 Course Coordinator(s)

 VAC Coordinator

 HoD-CSE