

**Guidelines for Value-Added Courses:**

- |   |  |
|---|--|
| 1. Academic Year  | : 2022-23 (ODD)  |
| 2. Regulation   | : R2020  |
| 3. Department Name  | : Electronics and Communication Engineering  |
| 4. Name of the Value-added course                                       | : Machine Learning & AI  |
| 5. No. of Credits   | : -  |
| 6. Category   | : Theory & Hands-on  |
| 7. Name and Details of the Joint-organization (industry/NGO etc) if any | : Quantanics Techserv Pvt ltd , Madurai  |
| 8. Resource person details  | : 1. Mr.Manaz,<br>2.Mr.Sarath Kumar,<br>3.Mr.Vignesh<br>4.Mr.Kesavan<br>Quantanics Techserv Pvt ltd, Madurai |
| 9. Three Member Committee details                                       | : 1.Dr.T.Prathiba, HoD/ECE<br>2.Dr.N.M.Mary Sindhuja, AP/ECE<br>3.Mrs.S.Nisha Rani , AP/ECE                  |
| 10. VAC Coordinator Details   | : 1. Dr.T.Prathiba ,AP/ECE<br>2. Mrs.S.Nisha Rani , AP/ECE   |
| 11. Duration (30 h mandatory)   | : 45 hrs   |
| 12. Period (From-To) :  | : 25.08.2022 to 30.08.2022 (except<br>28.08.2022)  |
| 13. Venue   | : AI & IoT lab/CSE   |

**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 2 = 60 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

Encl:

1. Syllabus Copy
2. BoS Approval
3. Three Member Committee MoM
4. Geo-Tagged Photos
5. Certificates of all participants
6. Questionnaire
7. Attendance Sheet
8. Evaluated Answer script
9. Test Report
10. Feedback form
11. Feedback analysis
12. Students' oral feedback (recorded video)





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## Machine Learning & AI

### Introduction to Data Manipulation and Data Visualization

7 Hours

Introduction to Data Science, Flow of Data Science, Numpy, Pandas, Matplotlib  
Lab: Data Manipulation using Numpy and Pandas, Data Visualization in different Graphs.

### Introduction to Machine Learning

7 Hours

Introduction, Types of Machine Learning: Supervised, Unsupervised and Reinforcement learning, Applications, Classification vs Prediction Problems, Linear Regression Algorithm (Prediction Problem), Mean Square Error, R2 Score, Introduction to KNN (K Nearest Neighbor), Working of KNN, Decide the value of K, Confusion Matrix, Accuracy Score  
Lab: Employee Salary Prediction using Linear Regression, IRIS Flower Classification using KNN

### Introduction to Web Scraping and NLP

7 Hours

What is web scraping, Need of Web Scraping, Web Scraping Basics Natural Language Processing: Introduction, Stages in natural language Processing, Application of NLP in Real world applications  
Lab: Scraping Amazon Website/Flipkart Website Product User Reviews, Sentiment analysis using Natural Language Toolkit (NLTK), Live Twitter Tweets Sentiment Analysis, Amazon Product Review, Sentiment Analysis

### Introduction to Image Processing (Open CV) and Face Detection

7 Hours

Introduction to Open CV, Reading Image, ROI, Haar cascade Concept, Face Detection, working with Webcam  
Lab: Reading and Converting image to Array, Image Processing, Displaying Images, Drawing Different Shapes on Images, Face/Smile/Eyes Detection through Image and Live Webcam, Object Detection by Color

### Introduction to Artificial Intelligence (ANN and CNN)

7 Hours

Artificial Intelligence: Introduction, Typical Applications, Keras API. Artificial Neural Networks (ANNs): Concept, Activation Functions, Feed Forward Neural Networks and Back Propagation MNIST Data Set, Different types of MNIST Dataset, Importing Image Samples from MNIST Dataset, Analyzing samples of images in MNIST Dataset. Introduction, Working of CNN, Convolutional Layer, Pooling, Flatten, Image recognition techniques and feature Extraction fundamentals.  
Lab: Creating Simple Neural Network from Scratch, Hand-written digit recognition using Neural networks Using Tensorflow Library, Image identification and classification project (Cats Vs Dogs) Using CNN

T. Ravi  
13/8/22

206, Vellaikannu Nagar, Theni Main Road, Madurai - 16.

+91 86810 01680, 70108 97188 | support@quantanics.in | www.quantanics.in



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Value added course on "Machine Learning & AI"

Date: 25.08.2022 to 30.08.2022

Course Outcome and Mapping

Value Added Course Outcome:

On attending value added course on "Machine Learning & AI", Students will be able to,

**VACO1:** Make use of the machine learning algorithms and Artificial Intelligence tools to do projects on recent research challenges.

Value Added Course Outcome mapping with Program Outcomes:

|               | PO1                   | PO2              | PO3                             | PO4  | PO5               | PO6                      | PO7                            | PO8     | PO9                      | PO10          | PO11                           | PO12                | PS01  | PS02  |
|---------------|-----------------------|------------------|---------------------------------|--|-------------------|--------------------------|--------------------------------|---------|--------------------------|---------------|--------------------------------|---------------------|---|---|
| <b>PO</b>     | Engineering Knowledge | Problem analysis | Design/development of solutions | Conduct investigations of complex problems | Modern tool usage | The engineer and society | Environment and sustainability | Ethics: | Individual and team work | Communication | Project management and finance | Life-long learning: | Ability to make use of attained technical knowledge in the field of Electronics and Communication Engineering for successful career and qualifying in competitive examinations at the national level. | Ability to develop workable solutions for real time challenges in Electronics and Communication Engineering |
| <b>VA CO1</b> | 3                     | 3                | 3                               | 3  | 3                 | 2                        | 2                              | 2       | 2                        | 2             | 2                              | 2                   | 3   | 3   |

*Sure*  
VAC Course Incharge

*T. Patra*  
HOD/ECE



Department of ECE

Date : 20-03-2022

**Minutes of the 4<sup>th</sup> Board of Studies Meeting (Online Mode)**

**ECE Department, Kamaraj College of Engineering and Technology**

**held on 19-03-2022 at 02.30 P.M**

**MS Teams Meeting Link: <https://tinyurl.com/ECE-Kamaraj-BoS-4>**

**Members Present:**

1. Dr.A.Geetha, M.E.,Ph.D.,  
Associate Professor & HoD / ECE,  
Kamaraj College of Engineering and Technology, Virudhunagar.  
**Chairman of BoS - ECE**
2. Dr.H.Umma Habiba, Ph.D.,  
Professor, ECE,  
Sri Venkateswara College of Engineering,  
Irungattukottai - 602117. Sriperumbudur Taluk.  
**Member of BoS - Anna University Nominee**
3. Dr.D.Sriram Kumar, Ph.D.,  
Professor, ECE,  
National Institute of Technology, Tiruchirappalli - 620015.  
**Member of BoS - Academic Council Nominee**
4. Dr.A.Amalin Prince, Ph.D.,  
Associate Professor, Department of EEE,  
BITS Pilani, K.K.Birla Goa Campus, Zuarinagar, Goa - 403726.  
**Member of BoS - Academic Council Nominee**
5. Mr.M.Chinnathambi, M.E.,  
Technical Lead,  
Viasat India, Global Infocity, Module 1 & 2, 5th Floor, Block C,  
No. 40, MGR Salai, Perungudi, Chennai - 600097.  
**Member of BoS - Industrialist Nominee**
6. Dr.R.Preetha, Ph.D.,  
Assistant Professor, ECE,  
SRM Institute of Science and Technology,  
Ramapuram, Chennai - 600089.  
**Member of BoS - Alumni Nominee**

7. Dr.R.Suresh Babu, M.E.,M.B.A.,Ph.D.,  
Dean Academic Courses & Professor/ECE,  
Kamaraj College of Engineering and Technology, Virudhunagar.  
**Member of BoS - Internal Faculty Member**
8. Dr.R.S.Venkatesan, M.E.,Ph.D.,  
Assistant Professor/ECE,  
Kamaraj College of Engineering and Technology, Virudhunagar.  
**Member of BoS - Internal Faculty Member**
9. Dr.V.Jeyalakshmi, M.E.,Ph.D.,  
Assistant Professor/ECE,  
Kamaraj College of Engineering and Technology, Virudhunagar.  
**Member of BoS - Internal Faculty Member**
10. Dr.T.Pandiselvi, M.E.,Ph.D.,  
Assistant Professor/ECE,  
Kamaraj College of Engineering and Technology, Virudhunagar.  
**Member of BoS - Internal Faculty Member**
11. Dr.N.M.Mary Sindhuja, M.E.,Ph.D.,  
Assistant Professor/ECE,  
Kamaraj College of Engineering and Technology, Virudhunagar.  
**Member of BoS - Internal Faculty Member**
12. Dr.T.Prathiba, M.E.,Ph.D.,  
Assistant Professor/ECE,  
Kamaraj College of Engineering and Technology, Virudhunagar.  
**Member of BoS - Internal Faculty Member**
13. Mrs.C.Nagavani, M.E.,(Ph.D.,)  
Assistant Professor/ECE,  
Kamaraj College of Engineering and Technology, Virudhunagar.  
**Member of BoS - Internal Faculty Member**
14. Mr.M.Ramesh, M.E.,(Ph.D.,)  
Assistant Professor/ECE,  
Kamaraj College of Engineering and Technology, Virudhunagar.  
**Member of BoS - Internal Faculty Member**
15. Mr.R.Ashok, M.E.,(Ph.D.,)  
Assistant Professor/ECE,  
Kamaraj College of Engineering and Technology, Virudhunagar.  
**Member of BoS - Internal Faculty Member**

16. Mrs.S.Nisharani, M.E.,(Ph.D.,)  
Assistant Professor/ECE,  
Kamaraj College of Engineering and Technology, Virudhunagar.  
**Member of BoS - Internal Faculty Member**
17. Mr.P.Aravind, M.E.,  
Assistant Professor/ECE,  
Kamaraj College of Engineering and Technology, Virudhunagar.  
**Member of BoS - Internal Faculty Member**
18. Mrs.P.Ramalakshmi, M.E.,(Ph.D.,)  
Assistant Professor/ECE,  
Kamaraj College of Engineering and Technology, Virudhunagar.  
**Member of BoS - Internal Faculty Member**
19. Mrs.M.Stella Mercy, M.E.,(Ph.D.,)  
Assistant Professor/ECE,  
Kamaraj College of Engineering and Technology, Virudhunagar.  
**Member of BoS - Internal Faculty Member**
20. Mr.S.Alwyn Rajiv, M.E.,(Ph.D.,)  
Assistant Professor/ECE,  
Kamaraj College of Engineering and Technology, Virudhunagar.  
**Member of BoS - Internal Faculty Member**
21. Mrs.M.Gokila, M.E.,  
Assistant Professor/ECE,  
Kamaraj College of Engineering and Technology, Virudhunagar.  
**Member of BoS - Internal Faculty Member**
22. Mrs.P.Muthumari, M.E.,  
Assistant Professor/ECE,  
Kamaraj College of Engineering and Technology, Virudhunagar.  
**Member of BoS - Internal Faculty Member**
23. Mr.R.Raj Prabu, M.E.,(Ph.D.,)  
Assistant Professor/ECE,  
Kamaraj College of Engineering and Technology, Virudhunagar.  
**Member of BoS - Internal Faculty Member**

### Agenda Items, Discussions and Resolutions made:

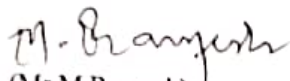
| Item No. | Agenda items   | Points discussed / resolution   |
|----------|--|---|
| 1.       | Welcome address  | The meeting started in online mode in Microsoft Teams platform at 02.30 P.M. Dr.A.Geetha, HOD/ECE, gave a warm cordial welcome to all the members of the Board of Studies.  |
| 2.       | Overview of the Vision, Mission, PEOs and PSOs of the Department | Dr.A.Geetha, HOD/ECE, gave a brief presentation about the Vision, Mission, PEOs and PSOs of the Department.   |
| 3.       | Approval of the Minutes of the Third BoS                         | Dr.A.Geetha, HOD/ECE requested the BoS members to approve the Minutes of the Third BoS. The minutes of Third BoS is already sent to the BoS members through the mail.   |
| 4.       | Action Taken for the Previous BoS                                | <p>Dr.A.Geetha, HOD/ECE explained the actions taken on the suggestions given in previous BoS. The following are the major actions taken.</p> <ul style="list-style-type: none"> <li>• As per the suggestion received from Dr.R.Sriram Kumar, Ph.D., R2020 students are studying Design Thinking as audit course in fourth semester. And more value added courses in the area of IoT with Web Development are added.</li> <li>• As per the suggestion received from Dr.H.Umma Habiba, value added course on Antenna Design using HFSS / CST is included for final year students.</li> <li>• As per the suggestion received from Dr.A.Amalin Prince, Ph.D., value added course "IoT integrated with Full Stack Web Development" is included with Analytics and Data Science concepts.</li> <li>• As per the suggestion received from Mr.M.Chinnathambi, M.E., Students will be studying Scilab value added course / Python Programming in R2021.</li> <li>• As per the suggestion received from Dr.R.Preetha, Ph.D., value added course based on System Verilog is included.</li> </ul> |
| 5.       | Approval of the Courses Completed for R2020                      | <p>Dr.A.Geetha, HOD/ECE requested the approval for the courses completed for R2020 students.</p> <ul style="list-style-type: none"> <li>• Audit Courses completed for R2020 <ul style="list-style-type: none"> <li>✓ Constitution of India - Third Semester</li> <li>✓ Design Thinking - Fourth Semester</li> </ul> </li> <li>• Online Courses in Progress for R2020 <ul style="list-style-type: none"> <li>✓ Online Course - I and Online Course - II can be completed anytime between Third and Seventh Semester</li> </ul> </li> </ul>   |




| Item No. | Agenda items   | Points discussed / resolution   |
|----------|--|---|
|          |  | <p>✓ NPTEL - Digital System Design – 56/61 Students registered in Fourth Semester</p> <p>BoS members approved the courses completed for R2020 second year students.</p>   |
| 6.       | Assessment of Value Added Courses completed for R2020  | <p>Dr.A.Geetha, HOD/ECE explained the Assessment of Value Added Courses completed for second year R2020 students.</p> <ul style="list-style-type: none"> <li>• Three Members - HOD/VAC Incharge, Chairperson, Subject Experts</li> <li>• Internal 40 Marks. <ul style="list-style-type: none"> <li>- Preferably Assignments such as mini projects, presentations, worksheets, etc.</li> </ul> </li> <li>• External 60 Marks. <ul style="list-style-type: none"> <li>- MCQs Type question paper pattern : <ul style="list-style-type: none"> <li>Part A - 30 x 1 = 30 Marks</li> <li>Part B – 15 x 2 = 30 Marks</li> <li>Total (IM + EM): 100 Marks</li> </ul> </li> </ul> </li> <li>• Passing Criteria: 50 Marks &amp; No revaluation and no re-exam.</li> <li>• Mode of External Exam: Online Proctored Mode</li> <li>• Duration of the Exam: 1 hour 30 minutes</li> </ul> <p>BoS members approved the assessment pattern followed for the value added course of R2020 second year students.</p> |
| 7.       | Presentation of the proposed syllabi of Third Year for R2020 of UG Programme B.E. - Electronics and Communication Engineering                  | <p>Dr.A.Geetha, HOD/ECE presented the proposed syllabi for Third Year R2020 of UG Programme B.E. - Electronics and Communication Engineering. The following are the presentation points.</p> <ul style="list-style-type: none"> <li>• B.E. - ECE (5th and 6th semester)</li> <li>• Professional Electives in 5th and 6th semester</li> <li>• Open Electives in 5th and 6th semester</li> <li>• Online Courses (NPTEL / Swayam)</li> <li>• Value Added Courses</li> </ul>  |
| 8.       | Review, discussions & suggestions by Experts on Syllabi of Third Year for R2020 of UG Programme B.E. - Electronics & Communication Engineering | <p>The members approved the syllabi of Third Year for R2020 of UG Programme B.E. - Electronics and Communication Engineering.</p>   |

| Item No. | Agenda items  | Points discussed / resolution   |
|----------|---|---|
| 9.       | Presentation of the proposed curriculum and syllabi for R2021 of UG Programme B.E. - Electronics and Communication Engineering from semester 2 to semester 4. | <p>Dr.A.Geetha, HOD/ECE presented the proposed curriculum and syllabi for R2021 of UG Programme B.E. - Electronics and Communication Engineering from semester 2 to semester 4. The following are the presentation points.</p> <ul style="list-style-type: none"> <li>• B.E.-ECE (Curriculum, Syllabi for semester 2 to semester 4)</li> <li>• Professional Electives</li> <li>• Open Electives &amp; Audit Courses</li> <li>• Online Courses (NPTEL / Swayam)</li> <li>• Value Added Courses</li> </ul>  |
| 10.      | Review, Discussions and Suggestions by Experts on UG Programme B.E. - Electronics and Communication Engineering R2021 Curriculum & Syllabi                    | <p>Dr.R.Preetha, Ph.D., suggested the following</p> <ul style="list-style-type: none"> <li>- The "Signals and Systems" which is prerequisite course for "Discrete Time Signal Processing" is present in Third Semester and whereas "Discrete Time Signal Processing" is present in fifth semester. It would be better if the students study "Signals and Systems" in a semester and followed by the course "Discrete Time Signal Processing" in the immediate semester. If not, REVIEW of the prerequisite subject must be given.</li> </ul> <p>Dr.D.Sriram Kumar, Ph.D., suggested the following</p> <ul style="list-style-type: none"> <li>- Uniformity needs to be followed for the number of textbooks mentioned in the syllabus of all courses. It would be better if two text books are uniformly given for all the courses.</li> <li>- With regard to Reference Books for courses, any number of books can be given.</li> <li>- Wherever possible, connectivity of the courses without any disjoin should be ensured.</li> <li>- It is better to introduce Simulation based experiments in the lower semester lab courses itself especially in Circuits and Devices Lab course.</li> </ul> <p>Dr.D.Sriram Kumar, Ph.D., and Dr.H.Umma Habiba, Ph.D., insisted the following.</p> <ul style="list-style-type: none"> <li>- The total credits should be in the range around 165 and the total number of credits in R2021 is too high and needs to be reduced. <ul style="list-style-type: none"> <li>- It is mentioned by Dean/Academic Courses that the weightage and more importance is given to the following Employability Enhancement Courses in R2021 as suggested by the Academic Council.</li> </ul> </li> </ul> |

| Item No. | Agenda items                                      | Points discussed / resolution  |         |
|----------|---|--|---------|
|          |   | Course Name  | Credits |
|          |   | Coding Techniques - I  | 3       |
|          |   | Coding Techniques - I Lab  | 1       |
|          |   | Coding Techniques - II   | 3       |
|          |   | Coding Techniques - II Lab   | 1       |
|          |   | Internship/ Value Added Courses  | 4       |
| 11.      | Any other items (Placements / Achievements)       | <ul style="list-style-type: none"> <li>• Dr.A.Geetha, HOD/ECE presented the placement details of UG 2018-22 batch students and PG 2020-22 batch students.</li> <li>• Dr.A.Geetha, HOD/ECE presented the achievement details our students and faculty members of ECE department.</li> </ul> |         |
| 12.      | To fix the date for the Next BoS Meet (ECE Board) | It is suggested to conduct Next BoS Meeting (ECE Board) in the month of September 2022.  |         |
| 13.      | Vote of Thanks                                    | The meeting ended with the Vote of Thanks by Dr.A.Geetha, Ph.D., Head, Department of ECE, Kamaraj College of Engineering and Technology, Virudhunagar.   |         |

  
 (Mr.M.Ramesh)  
 BoS Coordinator - ECE

  
 (Dr. A.Geetha)  
 BoS Chairman - ECE

**Department of Electronics and Communication Engineering**

10/08/2022

**Value added Course on Machine Learning & AI**

**Minutes of 3 Member Committee Meeting**

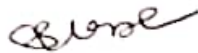
Member 1 - Head of the Department - Dr.T.Prathiba

Member 2 - Class Chairperson - Dr.N.M.Mary Sindhuja

Member 3 - Course Incharge - Dr.T.Prathiba, Mrs.S.Nisha Rani

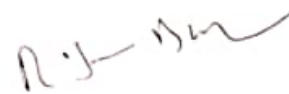
**The following points were discussed in the 3 Member Committee meeting held on 05.08.2022.**

1. Discussed about the introduction about the course by Dr.T.Prathiba on 22.08.2022.
2. Decided to conduct online pre requirement session to III ECE Students on 2<sup>nd</sup> January at 2.30P.M
3. The dates of the course were decided in the meeting as 25/08/2022-30/08/2022-except 28/08/2022 (6 days).
4. Discussed to conduct Mini Project contest after the completion of the course.
5. Discussed about the venue of value added program



Course In-charge

Class Chairperson



HOD/ECE





# KAMARAJ<sup>®</sup>

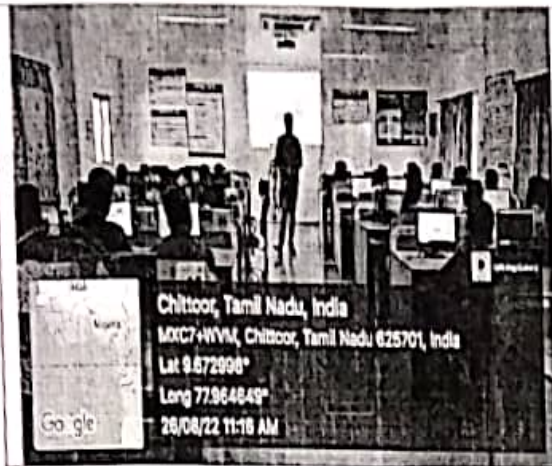
## COLLEGE OF ENGINEERING & TECHNOLOGY

(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)  
 S.P.G. Chidambaram Road - G. Nagamalai Campus  
 S.P.O. C. Nagar, K. Vellakulam - 625 701 (Near VIRUDHUNAGAR)

### Department of Electronics and Communication Engineering Report on Value Added Course on Machine Learning & AI

Venue: AI & IoT lab/CSE  
 Date: 25.08.2022 to 30.08.2022

|  |   |
|--|---|
|  <p>Chittoor, Tamil Nadu, India<br/>                 MOCF7-WVM, Chittoor, Tamil Nadu 625701, India<br/>                 Lat 9.67065°<br/>                 Long 77.964322°<br/>                 25/08/22 09:37 AM</p>      |  <p>Kalligudi, Tamil Nadu, India<br/>                 MOCF8-84M, Kalligudi, Tamil Nadu 625701, India<br/>                 Lat 9.673343°<br/>                 Long 77.96446°<br/>                 25/08/22 09:40 AM</p>  |
| <p>Welcome Address by Dr.T.Prathiba, HoD/ECE</p>   | <p>Inaugural Address by Dr.S.Senthil, Principal</p>   |
|  <p>Kalligudi, Tamil Nadu, India<br/>                 MOCF8-84M, Kalligudi, Tamil Nadu 625701, India<br/>                 Lat 9.673343°<br/>                 Long 77.964464°<br/>                 25/08/22 06:48 AM</p> |  <p>Chittoor, Tamil Nadu, India<br/>                 MOCF7-WVM, Chittoor, Tamil Nadu 625701, India<br/>                 Lat 9.672695°<br/>                 Long 77.964322°<br/>                 25/08/22 12:02 PM</p> |
| <p>Felicitation by Dr.R.Suresh Babu, Professor &amp; Dean<br/>                 (Academic Courses)</p>  | <p>'Introduction to Data Manipulation and Data<br/>                 Visualization' handled by Mr.Manaz, Quantanics<br/>                 Techserv pvt ltd, Madurai</p>   |



Chittoor, Tamil Nadu, India  
 M0C7-WVM, Chittoor, Tamil Nadu 625701, India  
 Lat 9.672998°  
 Long 77.964849°  
 28/08/22 11:18 AM

'Introduction to Machine Learning' handled by Mr.Vignesh, Quantanics Techserv pvt ltd, Madurai



Kalligudi, Tamil Nadu, India  
 M0FB-64H, Kalligudi, Tamil Nadu 625701, India  
 Lat 9.67299°  
 Long 77.966164°  
 27/08/22 10:51 PM

'Introduction to Web Scraping and NLP' handled by Mr.Vignesh, Quantanics Techserv pvt ltd, Madurai



Kalligudi, Tamil Nadu, India  
 M0FB-64H, Kalligudi, Tamil Nadu 625701, India  
 Lat 9.672998°  
 Long 77.966164°  
 29/08/22 09:47 AM

'Introduction to Image Processing (Open CV) and Face Detection' handled by Mr.Sarath Kumar, Quantanics Techserv pvt ltd, Madurai



Kalligudi, Tamil Nadu, India  
 M0FB-64H, Kalligudi, Tamil Nadu 625701, India  
 Lat 9.672998°  
 Long 77.966173°  
 30/08/22 12:34 PM

Introduction to Artificial Intelligence (ANN and CNN) handled by Mr.Vignesh, Quantanics Techserv pvt ltd, Madurai



Chittoor, Tamil Nadu, India  
 M0C7-WVM, Chittoor, Tamil Nadu 625701, India  
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 Long 77.964849°  
 30/08/22 03:50 PM

Valedictory Address by Dr.T.Prathiba, HoD/ECE



Chittoor, Tamil Nadu, India  
 M0C7-WVM, Chittoor, Tamil Nadu 625701, India  
 Lat 9.672998°  
 Long 77.964849°  
 30/08/22 04:03 PM

Valedictory Address by Dr.R.Suresh Babu, Professor and Dean (Academic Courses)

*S. Suresh*  
 VAC Coordinator

*T. Prathiba*  
 HoD/ECE



# VALUE ADDED COURSE COMPLETION CERTIFICATE

This is to certify that Mr./Ms. SAIRAM.M. has attended six days Value Added Course on **Machine Learning & AI** offered by **Quantanics TechServ Pvt. Ltd**, Madurai from **25.08.2022** to **31.08.2022** in association with the Department of Electronics and Communication Engineering, Kamaraj College of Engineering and Technology, K.Vellakulam Near Virudhunagar.

*A. Saravan*  
DIRECTOR

*Sune*  
COORDINATOR (S)

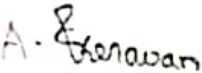
*T. Prathap*  
HOD/ECE

*Pritha*  
PRINCIPAL



# VALUE ADDED COURSE COMPLETION CERTIFICATE

This is to certify that Mr./Ms. TRSHAD HASAN.M has attended six days Value Added Course on **Machine Learning & AI** offered by **Quantanics TechServ Pvt. Ltd**, Madurai from **25.08.2022** to **31.08.2022** in association with the Department of Electronics and Communication Engineering, Kamaraj College of Engineering and Technology, K.Vellakulam Near Virudhunagar.

  
DIRECTOR

  
COORDINATOR (S)

  
HOD/ECE

  
PRINCIPAL





# VALUE ADDED COURSE COMPLETION CERTIFICATE

This is to certify that Mr./Ms. SANKARALINGAM.R has attended six days Value Added Course on **Machine Learning & AI** offered by **Quantanics TechServ Pvt. Ltd**, Madurai from **25.08.2022** to **31.08.2022** in association with the Department of Electronics and Communication Engineering, Kamaraj College of Engineering and Technology, K.Vellakulam Near Virudhunagar.

*A. Karavan*  
DIRECTOR

*[Signature]*  
COORDINATOR (S)

*T. Rathu*  
HOD/ECE

*[Signature]*  
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This is to certify that Mr./Ms. MOHAMED MUSTAFA. A has attended six days Value Added Course on **Machine Learning & AI** offered by **Quantanics TechServ Pvt. Ltd**, Madurai from **25.08.2022** to **31.08.2022** in association with the Department of Electronics and Communication Engineering, Kamaraj College of Engineering and Technology, K.Vellakulam Near Virudhunagar.

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This is to certify that Mr./Ms. MOHAN RAJ. T has attended six days Value Added Course on **Machine Learning & AI** offered by **Quantanics TechServ Pvt. Ltd**, Madurai from **25.08.2022** to **31.08.2022** in association with the Department of Electronics and Communication Engineering, Kamaraj College of Engineering and Technology, K.Vellakulam Near Virudhunagar.

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COORDINATOR (S)

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This is to certify that Mr./Ms. M. AJATH has attended six days Value Added Course on **Machine Learning & AI** offered by **Quantanics TechServ Pvt. Ltd**, Madurai from **25.08.2022** to **31.08.2022** in association with the Department of Electronics and Communication Engineering, Kamaraj College of Engineering and Technology, K.Vellakulam Near Virudhunagar.

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COORDINATOR (S)

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# VALUE ADDED COURSE COMPLETION CERTIFICATE

This is to certify that Mr./Ms. SRINIVASH.R has attended six days Value Added Course on **Machine Learning & AI** offered by **Quantanics TechServ Pvt. Ltd**, Madurai from **25.08.2022** to **31.08.2022** in association with the Department of Electronics and Communication Engineering, Kamaraj College of Engineering and Technology, K.Vellakulam Near Virudhunagar.

*A. Venawan*  
DIRECTOR

*abene*  
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*Prithvi*  
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# VALUE ADDED COURSE COMPLETION CERTIFICATE

This is to certify that Mr./Ms. B. NANDHA KUMAR has attended six days Value Added Course on **Machine Learning & AI** offered by **Quantanics TechServ Pvt. Ltd**, Madurai from **25.08.2022** to **31.08.2022** in association with the Department of Electronics and Communication Engineering, Kamaraj College of Engineering and Technology, K.Vellakulam Near Virudhunagar.

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This is to certify that Mr./Ms. SUKIL KUMAR .R has attended six days Value Added Course on **Machine Learning & AI** offered by **Quantanics TechServ Pvt. Ltd**, Madurai from **25.08.2022** to **31.08.2022** in association with the Department of Electronics and Communication Engineering, Kamaraj College of Engineering and Technology, K.Vellakulam Near Virudhunagar.

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*Senawan*  
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This is to certify that Mr./Ms. ARUL KUMAR P has attended six days Value Added Course on **Machine Learning & AI** offered by Quantanics TechServ Pvt. Ltd, Madurai from 25.08.2022 to 31.08.2022 in association with the Department of Electronics and Communication Engineering, Kamaraj College of Engineering and Technology, K.Vellakulam Near Virudhunagar.

*A. Sivaravan*  
DIRECTOR

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COORDINATOR (S)

*T. Parthi*  
HOD/ECE

*Prithvi*  
PRINCIPAL





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This is to certify that Mr./Ms. ASHOK KUMAR.S has attended six days Value Added Course on **Machine Learning & AI** offered by Quantanics TechServ Pvt. Ltd, Madurai from **25.08.2022** to **31.08.2022** in association with the Department of Electronics and Communication Engineering, Kamaraj College of Engineering and Technology, K.Vellakulam Near Virudhunagar.

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DIRECTOR

*Sune*  
COORDINATOR (S)

*T. Prathe*  
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*Senthil*  
PRINCIPAL



# VALUE ADDED COURSE COMPLETION CERTIFICATE

This is to certify that Mr./Ms. AMARNATH R has attended six days Value Added Course on **Machine Learning & AI** offered by **Quantanics TechServ Pvt. Ltd**, Madurai from **25.08.2022** to **31.08.2022** in association with the Department of Electronics and Communication Engineering, Kamaraj College of Engineering and Technology, K.Vellakulam Near Virudhunagar.

*A. S. Venawan*  
DIRECTOR

*sun*  
COORDINATOR (S)

*T. Parthi*  
HOD/ECE

*S. Thirud*  
PRINCIPAL



# VALUE ADDED COURSE COMPLETION CERTIFICATE

This is to certify that Mr./Ms. ABISHEK EDWARD.S has attended six days Value Added Course on **Machine Learning & AI** offered by Quantanics TechServ Pvt. Ltd, Madurai from **25.08.2022** to **31.08.2022** in association with the Department of Electronics and Communication Engineering, Kamaraj College of Engineering and Technology, K.Vellakulam Near Virudhunagar.

*A. Saravan*  
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*R. Senthil*  
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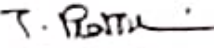


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This is to certify that Mr./Ms. M. MADHAVAN has attended six days Value Added Course on **Machine Learning & AI** offered by Quantanics TechServ Pvt. Ltd, Madurai from **25.08.2022** to **31.08.2022** in association with the Department of Electronics and Communication Engineering, Kamaraj College of Engineering and Technology, K.Vellakulam Near Virudhunagar.

  
DIRECTOR

  
COORDINATOR (S)

  
HOD/ECE

  
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This is to certify that ~~Mr./Ms.~~ JENSI.M has attended six days Value Added Course on **Machine Learning & AI** offered by **Quantanics TechServ Pvt. Ltd.** Madurai from **25.08.2022** to **31.08.2022** in association with the Department of Electronics and Communication Engineering, Kamaraj College of Engineering and Technology, K.Vellakulam Near Virudhunagar.

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*[Signature]*  
COORDINATOR (S)

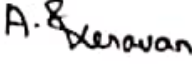
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# VALUE ADDED COURSE COMPLETION CERTIFICATE

This is to certify that Mr./Ms. V. S. SHYAM has attended six days Value Added Course on **Machine Learning & AI** offered by **Quantanics TechServ Pvt. Ltd**, Madurai from **25.08.2022** to **31.08.2022** in association with the Department of Electronics and Communication Engineering, Kamaraj College of Engineering and Technology, K.Vellakulam Near Virudhunagar.

  
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This is to certify that Mr./Ms. DIHANALINGESHI . C has attended six days Value Added Course on **Machine Learning & AI** offered by Quantanics TechServ Pvt. Ltd, Madurai from **25.08.2022** to **31.08.2022** in association with the Department of Electronics and Communication Engineering, Kamaraj College of Engineering and Technology, K.Vellakulam Near Virudhunagar.

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# VALUE ADDED COURSE COMPLETION CERTIFICATE

This is to certify that Mr./Ms. VENKATESH. C has attended six days Value Added Course on **Machine Learning & AI** offered by Quantanics TechServ Pvt. Ltd, Madurai from **25.08.2022** to **31.08.2022** in association with the Department of Electronics and Communication Engineering, Kamaraj College of Engineering and Technology, K.Vellakulam Near Virudhunagar.

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DIRECTOR

*asene*  
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# VALUE ADDED COURSE COMPLETION CERTIFICATE

This is to certify that Mr./Ms. SRIRAM.B has attended six days Value Added Course on **Machine Learning & AI** offered by Quantanics TechServ Pvt. Ltd, Madurai from **25.08.2022** to **31.08.2022** in association with the Department of Electronics and Communication Engineering, Kamaraj College of Engineering and Technology, K.Vellakulam Near Virudhunagar.

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# VALUE ADDED COURSE COMPLETION CERTIFICATE

This is to certify that Mr./Ms. R. SELVA PRIYA has attended six days Value Added Course on **Machine Learning & AI** offered by **Quantanics TechServ Pvt. Ltd**, Madurai from **25.08.2022** to **31.08.2022** in association with the Department of Electronics and Communication Engineering, Kamaraj College of Engineering and Technology, K.Vellakulam Near Virudhunagar.

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*Prithi*  
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# VALUE ADDED COURSE COMPLETION CERTIFICATE

This is to certify that Mr./Ms. MEENAKSHI.N. has attended six days Value Added Course on **Machine Learning & AI** offered by **Quantanics TechServ Pvt. Ltd**, Madurai from **25.08.2022** to **31.08.2022** in association with the Department of Electronics and Communication Engineering, Kamaraj College of Engineering and Technology, K.Vellakulam Near Virudhunagar.

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# VALUE ADDED COURSE COMPLETION CERTIFICATE

This is to certify that ~~Mr./Ms.~~ K. JEYA ROOBINI has attended six days Value Added Course on **Machine Learning & AI** offered by **Quantanics TechServ Pvt. Ltd**, Madurai from **25.08.2022** to **31.08.2022** in association with the Department of Electronics and Communication Engineering, Kamaraj College of Engineering and Technology, K.Vellakulam Near Virudhunagar.

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This is to certify that Mr./Ms. DINESH. N. has attended six days Value Added Course on **Machine Learning & AI** offered by **Quantanics TechServ Pvt. Ltd**, Madurai from **25.08.2022** to **31.08.2022** in association with the Department of Electronics and Communication Engineering, Kamaraj College of Engineering and Technology, K.Vellakulam Near Virudhunagar.

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# VALUE ADDED COURSE COMPLETION CERTIFICATE

This is to certify that Mr./Ms. YUVARAJ SINGH R has attended six days Value Added Course on **Machine Learning & AI** offered by **Quantanics TechServ Pvt. Ltd**, Madurai from **25.08.2022** to **31.08.2022** in association with the Department of Electronics and Communication Engineering, Kamaraj College of Engineering and Technology, K.Vellakulam Near Virudhunagar.

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# VALUE ADDED COURSE COMPLETION CERTIFICATE

This is to certify that Mr./Ms. AKASH KUMAR.N. has attended six days Value Added Course on **Machine Learning & AI** offered by Quantanics TechServ Pvt. Ltd, Madurai from **25.08.2022** to **31.08.2022** in association with the Department of Electronics and Communication Engineering, Kamaraj College of Engineering and Technology, K.Vellakulam Near Virudhunagar.

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*S. S. S.*  
COORDINATOR (S)

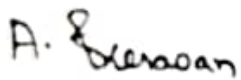
*T. P. P.*  
HOD/ECE

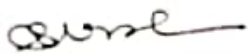
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This is to certify that Mr./Ms. M. MATCHA SOUNDARYA has attended six days Value Added Course on **Machine Learning & AI** offered by Quantanics TechServ Pvt. Ltd, Madurai from 25.08.2022 to 31.08.2022 in association with the Department of Electronics and Communication Engineering, Kamaraj College of Engineering and Technology, K.Vellakulam Near Virudhunagar.

  
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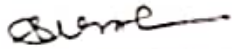




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This is to certify that Mr./Ms. LAVANYA.C has attended six days Value Added Course on Machine Learning & AI offered by Quantanics TechServ Pvt. Ltd, Madurai from 25.08.2022 to 31.08.2022 in association with the Department of Electronics and Communication Engineering, Kamaraj College of Engineering and Technology, K.Vellakulam Near Virudhunagar.

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This is to certify that Mr./Ms. K. PRATHAP CHANDRAN has attended six days Value Added Course on **Machine Learning & AI** offered by **Quantanics TechServ Pvt. Ltd**, Madurai from **25.08.2022** to **31.08.2022** in association with the Department of Electronics and Communication Engineering, Kamaraj College of Engineering and Technology, K.Vellakulam Near Virudhunagar.

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*R. R. R. R.*  
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# VALUE ADDED COURSE COMPLETION CERTIFICATE

This is to certify that Mr./Ms. PREETHIKA DHARSHINI .T.S. has attended six days Value Added Course on Machine Learning & AI offered by Quantanics TechServ Pvt. Ltd, Madurai from 25.08.2022 to 31.08.2022 in association with the Department of Electronics and Communication Engineering, Kamaraj College of Engineering and Technology, K.Vellakulam Near Virudhunagar.

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This is to certify that Mr./Ms. W. MARIA Ancy SHINESHA has attended six days Value Added Course on **Machine Learning & AI** offered by **Quantanics TechServ Pvt. Ltd**, Madurai from **25.08.2022** to **31.08.2022** in association with the Department of Electronics and Communication Engineering, Kamaraj College of Engineering and Technology, K.Vellakulam Near Virudhunagar.

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This is to certify that Mr./Ms. PRASANNA.R has attended six days Value Added Course on **Machine Learning & AI** offered by **Quantanics TechServ Pvt. Ltd**, Madurai from **25.08.2022** to **31.08.2022** in association with the Department of Electronics and Communication Engineering, Kamaraj College of Engineering and Technology, K.Vellakulam Near Virudhunagar.

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Department of Electronics and Communication Engineering  
Value added Course on Machine Learning & AI

Multiple Choice Questions with Answers

1. What is true about Machine Learning?
  - A. Machine Learning (ML) is that field of computer science
  - B. ML is a type of artificial intelligence that extract patterns out of raw data by using an algorithm or method.
  - C. The main focus of ML is to allow computer systems learn from experience without being explicitly programmed or human intervention.
  - D. All of the above
2. \_\_\_\_\_ data Structure has both a row and column index.
  - a. List
  - b. Series
  - c. DataFrame
  - d. None of the above
3. Which library is to be imported for creating Data Frame?
  - a. Python
  - b. Data Frame
  - c. Pandas
  - d. Random
4. NumPY stands for?
  - a. Numbering Python
  - b. Number in Python
  - c. Numerical Python
  - d. None of the above
5. If a dimension is given as \_\_\_\_\_ in a reshaping operation, the other dimensions are automatically calculated.
  - a. Zero
  - b. One
  - c. Negative one
  - d. Infinite
6. Which of the following Numpy operation are correct?
  - a. Mathematical and logical operations on arrays
  - b. Fourier transforms and routines for shape manipulation
  - c. Operations related to linear algebra
  - d. All of the above

7. What will be output for the following code? `import numpy as np  
dt = np.dtype([('age', np.int8)])  
a = np.array([(10,),(20,),(30,)], dtype = dt)  
print a['age']`
- a. `[[10 20 30]]`  
b. `[10 20 30]`  
c. `[10]`  
d. Error
8. What will be output for the following code? `import numpy as np  
a = np.array([[1,2,3],[0,1,4]])  
print (a.size)`
- a. 1  
b. 5  
c. 6  
d. 4
9. What is the correct code to install numpy in the linux system containing python3?
- a. `pip numpy install python3`  
b. `pip install numpy`  
c. `pip3 install numpy`  
d. `python3 pip3 numpy install`
10. How to import numpy module?
- a. `from numpy import *`  
b. `import numpy as my_numpy`  
c. `import numpy as np`  
d. all of above
11. \_\_\_\_\_ means graphical or pictorial representation of the data using graph, chart, etc.
- a. Data visualization  
b. Visual Data  
c. Matplot  
d. None of the above
12. Which module of matplotlib library is required for plotting of graph?
- a. plot  
b. matplot  
c. pyplot  
d. All of the above
13. Which of the following command is correct to install matplotlib?
- a. `pip install matplot`  
b. `pipe install matplotlib`  
c. `pip install matplotlib`  
d. None of the above
14. \_\_\_\_\_ function is used to display figure/chart.
- a. `showing()`  
b. `show()`  
c. `display()`  
d. `showScreen()`

15. Is Linear Regression is a supervised machine learning algorithm.

- a. FALSE
- b. **TRUE**

16. In practice, Line of best fit or regression line is found when \_\_\_\_\_

- a. Sum of residuals ( $\sum(Y - h(X))$ ) is minimum
- b. Sum of the absolute value of residuals ( $\sum|Y-h(X)|$ ) is maximum
- c. **Sum of the square of residuals ( $\sum(Y-h(X))^2$ ) is minimum**
- d. Sum of the square of residuals ( $\sum(Y-h(X))^2$ ) is maximum.

17. Which of the following formulas is not a simple linear regression model ?

- a.  $\text{Salary} = a * \text{Experience} + b$
- b.  $\text{Salary} = a * \text{Experience} - b$
- c.  **$\text{Salary} = a * \text{Experience} + b * \text{Age}$**
- d. None of the above

18. Which library to import in Python for Multiple Linear Regression ?

- a. Linear Model
- b. Linear Regression
- c. **Multiple Linear Regression**
- d. Single Linear Regression

19. k-NN algorithm does more computation on test time rather than train time.

- a. FALSE
- b. **TRUE**

20. In the image below, which would be the best value for k assuming that the algorithm you are using is k-Nearest Neighbor.

- a. 3
- b. **10**
- c. 20
- d. 50

21. Variables in TensorFlow are also known as ?

- a. tensor variable
- b. tensor keywords
- c. tensor attributes
- d. **tensor objects**

22. Who is the producer of tensor flow

- a. IBM
- b. **Google**



23. What are the disadvantage of the tensor flow
- a. No supports for windows
  - b. All of the above
  - c. Missing Symbolic loops
  - d. No GPU support for Nvidia
24. How can you handle missing data in the datasets?
- a. All of the above
  - b. Assign a unique category to missing values
  - c. Drop missing rows or columns
  - d. Replace missing values with mean/median/mode
25. ML algorithms build a model based on?
- a. None of the above
  - b. Training Data
26. ML is the subset of?
- a. Data learning
  - b. Artificial Intelligence
27. Which is not a type of ML?
- a. Deep Learning
  - b. Reinforcement Learning
  - c. Supervised Learning
  - d. Unsupervised Learning
28. Common classes of problems in ML is?
- a. Classification
  - b. All of the above
  - c. Regression
  - d. Clustering
29. Which is not an algorithm?
- a. Regression
  - b. Support Displacement
  - c. Clustering
  - d. Classification
30. In Pandas \_\_\_\_\_ is used to store data in multiple columns.
- a. Row
  - b. Column
  - c. Both a&b
  - d. DataFrame

**Department of Electronics and Communication Engineering**  
**Value added Course on Machine Learning & AI**

Number of students: 31 (III ECE-31 students)

**ATTENDANCE SHEET**

| S. No. | Roll No. | Name of the student | 25.08.2022 |      | 26.08.2022 |      | 27.08.2022 |      | 29.08.2022 |      | 30.08.2022 |      |
|--------|----------|---------------------|------------|------|------------|------|------------|------|------------|------|------------|------|
|        |          |                     | FN         | AN   | FN         | AN   | FN         | AN   | FN         | AN   | FN         | AN   |
| 1      | 20UEC001 | SAIRAM M            | Pass       | Pass | Pass       | Pass | Pass       | Pass | Pass       | Pass | Pass       | Pass |
| 2      | 20UEC003 | IRSHAD HASAN M      | Pass       | Pass | Pass       | Pass | Pass       | Pass | Pass       | Pass | Pass       | Pass |
| 3      | 20UEC005 | SANKARALINGAM R     | Pass       | Pass | Pass       | Pass | Pass       | Pass | Pass       | Pass | Pass       | Pass |
| 4      | 20UEC006 | A.MOHAMED MUSTAFA   | Pass       | Pass | Pass       | Pass | Pass       | Pass | Pass       | Pass | Pass       | Pass |
| 5      | 20UEC008 | MOHAN RAJ T         | Pass       | Pass | Pass       | Pass | Pass       | Pass | Pass       | Pass | Pass       | Pass |
| 6      | 20UEC010 | AJAI M              | Pass       | Pass | Pass       | Pass | Pass       | Pass | Pass       | Pass | Pass       | Pass |
| 7      | 20UEC011 | SRINIVASH R         | Pass       | Pass | Pass       | Pass | Pass       | Pass | Pass       | Pass | Pass       | Pass |
| 8      | 20JEC013 | NANDHAKUMAR B       | Pass       | Pass | Pass       | Pass | Pass       | Pass | Pass       | Pass | Pass       | Pass |
| 9      | 20JEC015 | SUKIL KUMAR R       | Pass       | Pass | Pass       | Pass | Pass       | Pass | Pass       | Pass | Pass       | Pass |
| 10     | 20UEC016 | ARUL KUMAR P        | Pass       | Pass | Pass       | Pass | Pass       | Pass | Pass       | Pass | Pass       | Pass |
| 11     | 20UEC019 | ASHOK KUMAR S       | Pass       | Pass | Pass       | Pass | Pass       | Pass | Pass       | Pass | Pass       | Pass |
| 12     | 20UEC020 | AMARNATH R          | Pass       | Pass | Pass       | Pass | Pass       | Pass | Pass       | Pass | Pass       | Pass |
| 13     | 20UEC022 | ABISHEK EDWARD S    | Pass       | Pass | Pass       | Pass | Pass       | Pass | Pass       | Pass | Pass       | Pass |

|    |          |                         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|----|----------|-------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 14 | 20UEC024 | MADHAVAN M              | M. Jemini       | M. Jemini       | M. Jemini       | M. Jemini       | M. Jemini       | M. Jemini       | M. Jemini       | M. Jemini       | M. Jemini       | M. Jemini       |
| 15 | 20UEC025 | JENSI M                 | M. Jemini       | M. Jemini       | M. Jemini       | M. Jemini       | M. Jemini       | M. Jemini       | M. Jemini       | M. Jemini       | M. Jemini       | M. Jemini       |
| 16 | 20UEC027 | SHYAM V S               | V. S. Shyam     | V. S. Shyam     | V. S. Shyam     | V. S. Shyam     | V. S. Shyam     | V. S. Shyam     | V. S. Shyam     | V. S. Shyam     | V. S. Shyam     | V. S. Shyam     |
| 17 | 20UEC029 | DHANALINGESH C          | Phanaj          | Phanaj          | Phanaj          | Phanaj          | Phanaj          | Phanaj          | Phanaj          | Phanaj          | Phanaj          | Phanaj          |
| 18 | 20UEC030 | VENKATESH C             | C. Venk         | C. Venk         | C. Venk         | C. Venk         | C. Venk         | C. Venk         | C. Venk         | C. Venk         | C. Venk         | C. Venk         |
| 19 | 20UEC031 | SRIRAM B                | B. Sriram       | B. Sriram       | B. Sriram       | B. Sriram       | B. Sriram       | B. Sriram       | B. Sriram       | B. Sriram       | B. Sriram       | B. Sriram       |
| 20 | 20UEC033 | SELVAPRIYA R            | R. Selva        | R. Selva        | R. Selva        | R. Selva        | R. Selva        | R. Selva        | R. Selva        | R. Selva        | R. Selva        | R. Selva        |
| 21 | 20UEC040 | MEENAKSHI N             | M. Meen         | M. Meen         | M. Meen         | M. Meen         | M. Meen         | M. Meen         | M. Meen         | M. Meen         | M. Meen         | M. Meen         |
| 22 | 20UEC043 | JEYAROOBINI K           | K. Jaya         | K. Jaya         | K. Jaya         | K. Jaya         | K. Jaya         | K. Jaya         | K. Jaya         | K. Jaya         | K. Jaya         | K. Jaya         |
| 23 | 20UEC048 | DINESH N                | N. Dinesh       | N. Dinesh       | N. Dinesh       | N. Dinesh       | N. Dinesh       | N. Dinesh       | N. Dinesh       | N. Dinesh       | N. Dinesh       | N. Dinesh       |
| 24 | 20UEC049 | YUVARAJ SINGH R         | R. Yuv          | R. Yuv          | R. Yuv          | R. Yuv          | R. Yuv          | R. Yuv          | R. Yuv          | R. Yuv          | R. Yuv          | R. Yuv          |
| 25 | 20UEC052 | AKASHKUMAR N            | N. Akash        | N. Akash        | N. Akash        | N. Akash        | N. Akash        | N. Akash        | N. Akash        | N. Akash        | N. Akash        | N. Akash        |
| 26 | 20UEC053 | MATCHA SOUNDARYA M      | M. Matcha       | M. Matcha       | M. Matcha       | M. Matcha       | M. Matcha       | M. Matcha       | M. Matcha       | M. Matcha       | M. Matcha       | M. Matcha       |
| 27 | 20UEC055 | LAVANYA C               | C. Lavanya      | C. Lavanya      | C. Lavanya      | C. Lavanya      | C. Lavanya      | C. Lavanya      | C. Lavanya      | C. Lavanya      | C. Lavanya      | C. Lavanya      |
| 28 | 20UEC056 | PRATHAP CHANDRAN K      | K. Prathap      | K. Prathap      | K. Prathap      | K. Prathap      | K. Prathap      | K. Prathap      | K. Prathap      | K. Prathap      | K. Prathap      | K. Prathap      |
| 29 | 20UEC059 | PREETHIKA DHARSHINI T S | T. S. Preethika | T. S. Preethika | T. S. Preethika | T. S. Preethika | T. S. Preethika | T. S. Preethika | T. S. Preethika | T. S. Preethika | T. S. Preethika | T. S. Preethika |
| 30 | 20UEC060 | MARIA ANCY SHINESHA W   | W. Maria        | W. Maria        | W. Maria        | W. Maria        | W. Maria        | W. Maria        | W. Maria        | W. Maria        | W. Maria        | W. Maria        |
| 31 | 20UEC061 | PRASANNA R              | R. Prasanna     | R. Prasanna     | R. Prasanna     | R. Prasanna     | R. Prasanna     | R. Prasanna     | R. Prasanna     | R. Prasanna     | R. Prasanna     | R. Prasanna     |

  
VAC Coordinator

T. Rama  
HoD/ECE

Department Electronics and Communication Engineering

Value Added Course: Machine Learning & AI

Event Date: 25.08.2022 to 30.08.2022 (except 28.08.2022)

Mark Statement

| S.No. | Roll No. | Register No. | Name of the student  | Presentation<br>(10 Marks) | Content &<br>Deliverable<br>(10 Marks) | Progress of<br>Work<br>(10 Marks) | Queries<br>(10 Marks) | Total (40<br>Marks) |
|-------|----------|--------------|----------------------|----------------------------|--|-----------------------------------|-----------------------|---------------------|
| 1.    | 20UEC001 | 920420UEC001 | SAIRAM M             | 10                         | 10                                     | 10                                | 8                     | 38                  |
| 2.    | 20UEC003 | 920420UEC003 | IRSHAD HASAN M       | 9                          | 10                                     | 10                                | 8                     | 37                  |
| 3.    | 20UEC005 | 920420UEC005 | SANKARALINGAM<br>R   | 10                         | 10                                     | 10                                | 8                     | 38                  |
| 4.    | 20UEC006 | 920420UEC006 | A.MOHAMED<br>MUSTAFA | 10                         | 10                                     | 10                                | 8                     | 38                  |
| 5.    | 20UEC008 | 920420UEC008 | MOHAN RAJ.T          | 9                          | 9                                      | 10                                | 9                     | 37                  |
| 6.    | 20UEC010 | 920420UEC010 | M.AJALI              | 10                         | 10                                     | 10                                | 7                     | 37                  |
| 7.    | 20UEC011 | 920420UEC011 | R.SRINIVASH          | 10                         | 10                                     | 10                                | 8                     | 38                  |
| 8.    | 20UEC013 | 920420UEC013 | B NANDHAKUMAR        | 10                         | 10                                     | 10                                | 9                     | 39                  |

|     |          |              |                     |    |    |    |   |    |
|-----|----------|--------------|---------------------|----|----|----|---|----|
| 0.  | 20UEC015 | 920420UEC015 | SUKIL KUMAR         | 10 | 10 | 10 | 8 | 38 |
| 1.  | 20UEC016 | 920420UEC016 | ARUL KUMAR          | 10 | 10 | 10 | 9 | 39 |
| 11. | 20UEC019 | 920420UEC019 | ASHOK KUMAR S       | 9  | 10 | 10 | 8 | 37 |
| 12. | 20UEC020 | 920420UEC020 | AMARNATH R          | 10 | 10 | 10 | 8 | 38 |
| 13. | 20UEC022 | 920420UEC022 | ABISHEK<br>EDWARD S | 9  | 10 | 10 | 8 | 37 |
| 14. | 20UEC024 | 920420UEC024 | M.MADHAVAN          | 10 | 10 | 10 | 9 | 39 |
| 15. | 20UEC025 | 920420UEC025 | M.JENSI             | 9  | 10 | 10 | 8 | 37 |
| 16. | 20UEC027 | 920420UEC027 | V S SHYAM           | 10 | 10 | 10 | 8 | 38 |
| 17. | 20UEC029 | 920420UEC029 | C.DHANALINGESH      | 10 | 10 | 10 | 9 | 39 |
| 18. | 20UEC030 | 920420UEC030 | VENKATESH C         | 9  | 10 | 10 | 8 | 37 |
| 19. | 20UEC031 | 920420UEC031 | SRIRAM.B            | 10 | 10 | 10 | 8 | 38 |
| 20. | 20UEC033 | 920420UEC033 | R.SELVAPRIYA        | 10 | 10 | 10 | 9 | 39 |
| 21. | 20UEC040 | 920420UEC040 | N. MEENAKSHI        | 10 | 10 | 10 | 8 | 38 |
| 22. | 20UEC043 | 920420UEC043 | JEYAROOBINI K       | 10 | 10 | 10 | 9 | 39 |
| 23. | 20UEC048 | 920420UEC048 | N DINESH            | 10 | 10 | 10 | 8 | 38 |

|    |          |              |                            |    |    |    |   |    |
|----|----------|--------------|----------------------------|----|----|----|---|----|
| 25 | 20UEC052 | 920420UEC052 | N.AKASHKUMAR               | 10 | 10 | 10 | 9 | 39 |
| 26 | 20UEC053 | 920420UEC053 | M.MATCHA<br>SOUNDARYA      | 10 | 10 | 10 | 8 | 38 |
| 27 | 20UEC055 | 920420UEC055 | LAVANYA.C                  | 9  | 10 | 10 | 8 | 37 |
| 28 | 20UEC056 | 920420UEC056 | K.PRATHAP<br>CHANDRAN      | 10 | 10 | 10 | 8 | 38 |
| 29 | 20UEC059 | 920420UEC059 | T.S PREETHIKA<br>DHARSHINI | 10 | 10 | 10 | 9 | 39 |
| 30 | 20UEC060 | 920420UEC060 | W.MARIA ANCY<br>SHINESHA   | 10 | 10 | 10 | 8 | 38 |
| 31 | 20UEC061 | 920420UEC061 | PRASANNA R                 | 10 | 10 | 10 | 8 | 38 |

For Quantanics Techsery Pvt Ltd

A. KESAVAN

CEO



S. R. R. T. R. R.  
Coordinators

N. J. - R. M.  
HOD/ECE 2/9/20

# QUANTANICS TECHSERV PVT LTD

Digitize Your Lives

PAN: AAAGQ5974E | GSTIN: 33AAAGQ5974E1ZG | CIN: U72900TN2019PTC127723

Value Added Course: Machine Learning & AI

## Mark Statement

| Department: |          | ECE          |                   | Regulation: 2020    |                     |             |
|-------------|----------|--------------|-------------------|---------------------|---------------------|-------------|
| Year:       |          | III          |                   | Semester: V         |                     |             |
| Sl. No      | Roll No. | Reg. No.     | Student Name      | Internal Marks (40) | External Marks (60) | Total (100) |
| 1.          | 20UEC001 | 920420UEC001 | SAIRAM M          | 38                  | 55                  | 93          |
| 2.          | 20UEC003 | 920420UEC003 | IRSHAD HASAN M    | 37                  | 56                  | 93          |
| 3.          | 20UEC005 | 920420UEC005 | SANKARALINGAM R   | 38                  | 50                  | 88          |
| 4.          | 20UEC006 | 920420UEC006 | A.MOHAMED MUSTAFA | 38                  | 48                  | 86          |
| 5.          | 20UEC008 | 920420UEC008 | MOHAN RAJ.T       | 37                  | 59                  | 96          |
| 6.          | 20UEC010 | 920420UEC010 | M.AJAI            | 37                  | 52                  | 89          |
| 7.          | 20UEC011 | 920420UEC011 | R.SRINIVASH       | 38                  | 51                  | 89          |
| 8.          | 20UEC013 | 920420UEC013 | B.NANDHAKUMAR     | 39                  | 53                  | 92          |
| 9.          | 20UEC015 | 920420UEC015 | SUKIL KUMAR       | 38                  | 55                  | 93          |
| 10.         | 20UEC016 | 920420UEC016 | ARUL KUMAR        | 39                  | 54                  | 93          |
| 11.         | 20UEC019 | 920420UEC019 | ASHOK KUMAR S     | 37                  | 58                  | 95          |
| 12.         | 20UEC020 | 920420UEC020 | AMARNATH R        | 38                  | 56                  | 94          |
| 13.         | 20UEC022 | 920420UEC022 | ABISHEK EDWARDS   | 37                  | 54                  | 91          |
| 14.         | 20UEC024 | 920420UEC024 | M.MADHAVAN        | 39                  | 56                  | 95          |
| 15.         | 20UEC025 | 920420UEC025 | M.JENSI           | 37                  | 52                  | 89          |
| 16.         | 20UEC027 | 920420UEC027 | V S SHYAM         | 38                  | 50                  | 88          |
| 17.         | 20UEC029 | 920420UEC029 | C.DHANALINGESH    | 39                  | 58                  | 97          |
| 18.         | 20UEC030 | 920420UEC030 | VENKATESH C       | 37                  | 58                  | 95          |
| 19.         | 20UEC031 | 920420UEC031 | SRIRAM.B          | 38                  | 50                  | 88          |

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|     |          |              |                            |    |    |    |
|-----|----------|--------------|----------------------------|----|----|----|
| 20. | 20UEC035 | 920420UEC033 | R.SELVAPRIYA               | 39 | 58 |    |
| 21. | 20UEC040 | 920420UEC040 | N. MEENAKSHI               | 38 | 54 | 97 |
| 22. | 20UEC043 | 920420UEC043 | JEYAROOBINI K              | 39 | 52 | 92 |
| 23. | 20UEC048 | 920420UEC048 | N DINESH                   | 38 | 50 | 91 |
| 24. | 20UEC049 | 920420UEC049 | YUVARAJSINGH R             | 37 | 54 | 88 |
| 25. | 20UEC052 | 920420UEC052 | N.AKASHKUMAR               | 39 | 55 | 91 |
| 26. | 20UEC053 | 920420UEC053 | M.MATCHA<br>SOUNDARYA      | 38 | 56 | 94 |
| 27. | 20UEC055 | 920420UEC055 | LAVANYA.C                  | 37 | 52 | 89 |
| 28. | 20UEC056 | 920420UEC056 | K.PIATHAP<br>CHANDRAN      | 38 | 51 | 89 |
| 29. | 20UEC059 | 920420UEC059 | T.S PREETHIKA<br>DHARSHINI | 39 | 53 | 92 |
| 30. | 20UEC060 | 920420UEC060 | W.MARIA ANCY<br>SHINESHA   | 38 | 55 | 93 |
| 31. | 20UEC061 | 920420UEC061 | PRASANNA R                 | 38 | 54 | 92 |

For Quantanics Techserv Pvt Ltd

A. Kesavan

A. KESAVAN

CEO



J. Parth  
Coordinators

A.J - Bar  
21/9/22  
HoD I ECE

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| If a dimension | Which of the follow  | What will be output | What will | What is the core | How to import numpy n  | Which mod             |
|----------------|----------------------|---------------------|-----------|------------------|------------------------|-----------------------|
| A : Zero       | D : All of the above | B : [10 20 30]      | C : 6     | C : Both A & B   | C : import numpy as np | a. Data visualization |
| C : Negative c | D : All of the above | B : [10 20 30]      | C : 6     | C : Both A & B   | D : all of above       | a. Data visualization |
| C : Negative c | D : All of the above | B : [10 20 30]      | C : 6     | C : Both A & B   | D : all of above       | c. Matplot            |
| C : Negative c | D : All of the above | A : [[10 20 30]]    | C : 6     | C : Both A & B   | A : from numpy import  | c. Matplot            |
| A : Zero       | D : All of the above | A : [[10 20 30]]    | B : 5     | C : Both A & B   | B : import numpy as np | a. Data visualization |
| C : Negative c | D : All of the above | C : [10]            | A : 1     | C : Both A & B   | C : import numpy as np | c. Matplot            |
| C : Negative c | D : All of the above | C : [10]            | A : 1     | C : Both A & B   | D : all of above       | c. Matplot            |
| C : Negative c | D : All of the above | C : [10]            | A : 1     | C : Both A & B   | D : all of above       | c. Matplot            |
| C : Negative c | D : All of the above | C : [10]            | A : 1     | C : Both A & B   | C : import numpy as np | c. Matplot            |
| C : Negative c | D : All of the above | B : [10 20 30]      | B : 5     | C : Both A & B   | D : all of above       | d. None of the above  |
| C : Negative c | D : All of the above | B : [10 20 30]      | C : 6     | C : Both A & B   | D : all of above       | a. Data visualization |
| C : Negative c | D : All of the above | A : [[10 20 30]]    | B : 5     | C : Both A & B   | C : import numpy as np | c. Matplot            |
| C : Negative c | D : All of the above | B : [10 20 30]      | B : 5     | C : Both A & B   | C : import numpy as np | a. Data visualization |
| C : Negative c | D : All of the above | B : [10 20 30]      | C : 6     | C : Both A & B   | C : import numpy as np | b. Visual Data        |
| A : Zero       | D : All of the above | C : [10]            | B : 5     | C : Both A & B   | A : from numpy import  | b. Visual Data        |
| C : Negative c | D : All of the above | C : [10]            | C : 6     | C : Both A & B   | C : import numpy as np | c. Matplot            |
| C : Negative c | D : All of the above | B : [10 20 30]      | C : 6     | C : Both A & B   | C : import numpy as np | d. None of the above  |
| B : One        | D : All of the above | D : Error           | D : 4     | C : Both A & B   | C : import numpy as np | c. Matplot            |
| A : Zero       | D : All of the above | C : [10]            | A : 1     | C : Both A & B   | B : import numpy as np | c. Matplot            |
| C : Negative c | D : All of the above | D : Error           | A : 1     | C : Both A & B   | D : all of above       | c. Matplot            |
| C : Negative c | D : All of the above | B : [10 20 30]      | B : 5     | C : Both A & B   | B : import numpy as np | c. Matplot            |
| C : Negative c | D : All of the above | D : Error           | B : 5     | C : Both A & B   | C : import numpy as np | c. Matplot            |
| C : Negative c | D : All of the above | D : Error           | A : 1     | C : Both A & B   | D : all of above       | c. Matplot            |
| C : Negative c | D : All of the above | B : [10 20 30]      | B : 5     | C : Both A & B   | C : import numpy as np | c. Matplot            |
| C : Negative c | D : All of the above | C : [10]            | A : 1     | C : Both A & B   | C : import numpy as np | c. Matplot            |
| C : Negative c | D : All of the above | B : [10 20 30]      | C : 6     | C : Both A & B   | C : import numpy as np | b. Visual Data        |
| A : Zero       | D : All of the above | C : [10]            | B : 5     | C : Both A & B   | A : from numpy import  | b. Visual Data        |
| C : Negative c | D : All of the above | C : [10]            | A : 1     | C : Both A & B   | D : all of above       | c. Matplot            |
| C : Negative c | D : All of the above | C : [10]            | A : 1     | C : Both A & B   | D : all of above       | c. Matplot            |
| C : Negative c | D : All of the above | C : [10]            | A : 1     | C : Both A & B   | C : import numpy as np | c. Matplot            |
| C : Negative c | D : All of the above | B : [10 20 30]      | B : 5     | C : Both A & B   | D : all of above       | d. None of the above  |

|                            |              |       |  |       |       |
|----------------------------|--------------|-------|--|-------|-------|
| a. pip install matplotlib  | a. show()    | FALSE | b) Sum of the absolute Salary = a * Experience LinearRegression              | TRUE  | B) 10 |
| c. pip install matplotlib  | b. show()    | TRUE  | c) Sum of the square o Salary = a * Experience LinearRegression              | TRUE  | B) 10 |
| c. pip install matplotlib  | c. display() | TRUE  | d) Sum of the square o Salary = a * Experience LinearRegression              | TRUE  | B) 10 |
| b. pipe install matplotlib | b. show()    | TRUE  | b) Sum of the absolute Salary = a * Experience MultipleLinearRegressi        | TRUE  | C) 20 |
| a. pip install matplotlib  | b. show()    | TRUE  | b) Sum of the absolute Salary = a * Experience LinearRegression              | TRUE  | D 50  |
| c. pip install matplotlib  | b. show()    | TRUE  | b) Sum of the absolute Salary = a * Experience LinearRegression              | TRUE  | D 50  |
| c. pip install matplotlib  | b. show()    | TRUE  | b) Sum of the absolute Salary = a * Experience LinearRegression              | TRUE  | D 50  |
| c. pip install matplotlib  | b. show()    | TRUE  | b) Sum of the absolute Salary = a * Experience LinearRegression              | TRUE  | B) 10 |
| b. pipe install matplotlib | c. display() | TRUE  | a) Sum of residuals ( $\sum$ (None of the above LinearRegression             | FALSE | B) 10 |
| c. pip install matplotlib  | b. show()    | TRUE  | c) Sum of the square o Salary = a * Experience LinearRegression              | TRUE  | B) 10 |
| c. pip install matplotlib  | c. display() | TRUE  | a) Sum of residuals ( $\sum$ (Salary = a * Experience LinearRegression       | TRUE  | B) 10 |
| a. pip install matplotlib  | b. show()    | FALSE | a) Sum of residuals ( $\sum$ (Salary = a * Experience MultipleLinearRegressi | TRUE  | A) 3  |
| c. pip install matplotlib  | b. show()    | TRUE  | c) Sum of the square o Salary = a * Experience LinearRegression              | TRUE  | B) 10 |
| a. pip install matplotlib  | c. display() | TRUE  | a) Sum of residuals ( $\sum$ (Salary = a * Experience LinearRegression       | TRUE  | C) 20 |
| c. pip install matplotlib  | b. show()    | TRUE  | c) Sum of the square o Salary = a * Experience MultipleRegression            | FALSE | C) 20 |
| c. pip install matplotlib  | b. show()    | TRUE  | c) Sum of the square o Salary = a * Experience LinearRegression              | TRUE  | B) 10 |
| b. pipe install matplotlib | c. display() | TRUE  | b) Sum of the absolute Salary = a * Experience MultipleLinearRegressi        | FALSE | D 50  |
| c. pip install matplotlib  | c. display() | TRUE  | a) Sum of residuals ( $\sum$ (Salary = a * Experience LinearRegression       | TRUE  | A) 3  |
| c. pip install matplotlib  | c. display() | TRUE  | a) Sum of residuals ( $\sum$ (Salary = a * Experience LinearRegression       | TRUE  | B) 10 |
| c. pip install matplotlib  | c. display() | TRUE  | a) Sum of residuals ( $\sum$ (Salary = a * Experience LinearRegression       | TRUE  | A) 3  |
| c. pip install matplotlib  | c. display() | TRUE  | a) Sum of residuals ( $\sum$ (Salary = a * Experience LinearRegression       | TRUE  | D 50  |
| a. pip install matplotlib  | c. display() | TRUE  | a) Sum of residuals ( $\sum$ (Salary = a * Experience LinearRegression       | TRUE  | B) 10 |
| c. pip install matplotlib  | c. display() | TRUE  | a) Sum of residuals ( $\sum$ (Salary = a * Experience LinearRegression       | TRUE  | C) 20 |
| c. pip install matplotlib  | b. show()    | TRUE  | b) Sum of the absolute Salary = a * Experience LinearRegression              | TRUE  | C) 20 |
| c. pip install matplotlib  | b. show()    | TRUE  | b) Sum of the absolute Salary = a * Experience LinearRegression              | TRUE  | D 50  |
| c. pip install matplotlib  | b. show()    | TRUE  | b) Sum of the absolute Salary = a * Experience LinearRegression              | TRUE  | D 50  |
| a. pip install matplotlib  | c. display() | TRUE  | a) Sum of residuals ( $\sum$ (Salary = a * Experience LinearRegression       | TRUE  | D 50  |
| c. pip install matplotlib  | b. show()    | TRUE  | b) Sum of the absolute Salary = a * Experience LinearRegression              | TRUE  | B) 10 |
| c. pip install matplotlib  | b. show()    | TRUE  | b) Sum of the absolute Salary = a * Experience LinearRegression              | TRUE  | B) 10 |
| c. pip install matplotlib  | b. show()    | TRUE  | b) Sum of the absolute Salary = a * Experience LinearRegression              | TRUE  | B) 10 |
| c. pip install matplotlib  | b. show()    | TRUE  | b) Sum of the absolute Salary = a * Experience LinearRegression              | TRUE  | D 50  |
| c. pip install matplotlib  | b. show()    | TRUE  | b) Sum of the absolute Salary = a * Experience LinearRegression              | TRUE  | D 50  |
| b. pipe install matplotlib | c. display() | TRUE  | a) Sum of residuals ( $\sum$ (None of the above LinearRegression             | FALSE | B) 10 |

|                      |        |   |                          |                   |
|----------------------|--------|---|--------------------------|-------------------|
| C. tensor attributes | Google | It supports for window assign a unique category | Transfer Training        | Transfer Training |
| D. tensor objects    | Google | All of the above                                | All of the above         | Training Data     |
| D. tensor objects    | Google | Missing Symbolic loop                           | All of the above         | Training Data     |
| D. tensor objects    | Google | Missing Symbolic loop                           | Replace missing value    | Training Data     |
| B. tensor keywords   | IBM    | Missing Symbolic loop                           | Drop missing rows or c   | Transfer Data     |
| B. tensor keywords   | Google | Missing Symbolic loop                           | All of the above         | Training Data     |
| B. tensor keywords   | Google | Missing Symbolic loop                           | All of the above         | Training Data     |
| B. tensor keywords   | Google | All of the above                                | All of the above         | Data Training     |
| B. tensor keywords   | Google | Missing Symbolic loop                           | All of the above         | Training Data     |
| C. tensor attributes | IBM    | All of the above                                | All of the above         | None of the above |
| D. tensor objects    | Google | All of the above                                | All of the above         | Training Data     |
| D. tensor objects    | Google | Missing Symbolic loop                           | Drop missing rows or c   | Training Data     |
| C. tensor attributes | IBM    | Missing Symbolic loop                           | Replace missing value    | Training Data     |
| D. tensor objects    | Google | Missing Symbolic loop                           | All of the above         | None of the above |
| A. tensor variable   | Google | Missing Symbolic loop                           | Assign a unique category | Transfer Data     |
| B. tensor keywords   | Google | No GPU support for Nvidia                       | All of the above         | Transfer Data     |
| D. tensor objects    | Google | Missing Symbolic loop                           | All of the above         | Training Data     |
| B. tensor keywords   | Google | Missing Symbolic loop                           | Drop missing rows or c   | Data Training     |
| D. tensor objects    | Google | Missing Symbolic loop                           | Drop missing rows or c   | Training Data     |
| D. tensor objects    | Google | Missing Symbolic loop                           | Drop missing rows or c   | Training Data     |
| D. tensor objects    | Google | Missing Symbolic loop                           | Drop missing rows or c   | Training Data     |
| D. tensor objects    | Google | Missing Symbolic loop                           | Drop missing rows or c   | Training Data     |
| D. tensor objects    | Google | Missing Symbolic loop                           | Drop missing rows or c   | Training Data     |
| D. tensor objects    | Google | Missing Symbolic loop                           | Drop missing rows or c   | Training Data     |
| B. tensor keywords   | Google | Missing Symbolic loop                           | All of the above         | Training Data     |
| D. tensor objects    | Google | Missing Symbolic loop                           | All of the above         | None of the above |
| A. tensor variable   | Google | Missing Symbolic loop                           | Assign a unique category | Transfer Data     |
| B. tensor keywords   | Google | Missing Symbolic loop                           | All of the above         | Training Data     |
| B. tensor keywords   | Google | All of the above                                | All of the above         | Data Training     |
| B. tensor keywords   | Google | Missing Symbolic loop                           | All of the above         | Training Data     |
| C. tensor attributes | IBM    | All of the above                                | All of the above         | None of the above |



Variables in TensorFlow Who is the producer of What are the disadvantages How can you handle m ML algorithms by ML is the subset of  
 © tensor attributes Google No supports for window Assign a unique category Data Training Data Learning

| Machine Learning       | All of the above | Support Displacement |
|------------------------|------------------|----------------------|
| Reinforcement Learning | All of the above | Support Displacement |
| Deep Learning          | All of the above | Support Displacement |
| Supervised Learning    | Classification   | Support Displacement |
| Deep Learning          | All of the above | Support Displacement |
| Deep Learning          | All of the above | Support Displacement |
| Deep Learning          | All of the above | Support Displacement |
| Deep Learning          | All of the above | Support Displacement |
| Unsupervised Learning  | All of the above | Support Displacement |
| Deep Learning          | All of the above | Support Displacement |
| Deep Learning          | Regression       | Support Displacement |
| Deep Learning          | Clustering       | Support Displacement |
| Deep Learning          | All of the above | Support Displacement |
| Supervised Learning    | Classification   | Support Displacement |
| Deep Learning          | All of the above | Support Displacement |
| Unsupervised Learning  | Clustering       | Support Displacement |
| Deep Learning          | Classification   | Support Displacement |
| Deep Learning          | Clustering       | Support Displacement |
| Deep Learning          | Regression       | Support Displacement |
| Deep Learning          | Regression       | Support Displacement |
| Deep Learning          | Regression       | Support Displacement |
| Deep Learning          | Regression       | Support Displacement |
| Deep Learning          | Regression       | Support Displacement |
| Deep Learning          | All of the above | Support Displacement |
| Deep Learning          | All of the above | Support Displacement |
| Supervised Learning    | Classification   | Support Displacement |
| Deep Learning          | All of the above | Support Displacement |
| Deep Learning          | All of the above | Support Displacement |
| Deep Learning          | All of the above | Support Displacement |
| Unsupervised Learning  | All of the above | Support Displacement |

Shome T. Barua  
 Coordinators

A-J - Sen  
 4513  
 -HOD/ECE

Department of Electronics and Communication Engineering  
 Value added Course on Machine Learning & AI

**Score Sheet (Online Test)**

| Sl. No | Name                    | Roll No  | Score   |
|--------|-------------------------|----------|---------|
| 1      | SAIRAM M                | 20UEC001 | 55 / 60 |
| 2      | IRSHAD HASAN M          | 20UEC003 | 56 / 60 |
| 3      | SANKARALINGAM R         | 20UEC005 | 50 / 60 |
| 4      | A.MOHAMED MUSTAFA       | 20UEC006 | 48 / 60 |
| 5      | MOHAN RAJ.T             | 20UEC008 | 59 / 60 |
| 6      | M.AJALI                 | 20UEC010 | 52 / 60 |
| 7      | R.SRINIVASH             | 20UEC011 | 51 / 60 |
| 8      | B NANDHAKUMAR           | 20UEC013 | 53 / 60 |
| 9      | SUKIL KUMAR             | 20UEC015 | 55 / 60 |
| 10     | ARUL KUMAR              | 20UEC016 | 54 / 60 |
| 11     | ASHOK KUMAR S           | 20UEC019 | 58 / 60 |
| 12     | AMARNATH R              | 20UEC020 | 56 / 60 |
| 13     | ABISHEK EDWARD S        | 20UEC022 | 54 / 60 |
| 14     | M.MADHAVAN              | 20UEC024 | 56 / 60 |
| 15     | M.JENSI                 | 20UEC025 | 52 / 60 |
| 16     | V S SHYAM               | 20UEC027 | 50 / 60 |
| 17     | C.DHANALINGESH          | 20UEC029 | 58 / 60 |
| 18     | VENKATESH C             | 20UEC030 | 58 / 60 |
| 19     | SRIRAM.B                | 20UEC031 | 50 / 60 |
| 20     | R.SELVAPRIYA            | 20UEC033 | 58 / 60 |
| 21     | N. MEENAKSHI            | 20UEC040 | 54 / 60 |
| 22     | JEYAROOBINI K           | 20UEC043 | 52 / 60 |
| 23     | N DINESH                | 20UEC048 | 50 / 60 |
| 24     | YUVARAJSINGH R          | 20UEC049 | 54 / 60 |
| 25     | N.AKASHKUMAR            | 20UEC052 | 55 / 60 |
| 26     | M.MATCHIA SOUNDARYA     | 20UEC053 | 56 / 60 |
| 27     | LAVANYA.C               | 20UEC055 | 52 / 60 |
| 28     | K.PRATHAP CHANDRAN      | 20UEC056 | 51 / 60 |
| 29     | T.S PREETHIKA DHARSHINI | 20UEC059 | 53 / 60 |
| 30     | W.MARIA ANCY SHINESHA   | 20UEC060 | 55 / 60 |
| 31     | PRASANNA R              | 20UEC061 | 54 / 60 |

*Sune*  
 VAC Coordinator

*R.J - Sun*  
 11/8/20  
 HoD/ECE

Department Electronics and Communication Engineering

Value Added Course: Machine Learning & AI

Mark Statement

| Department: |          | ECE          | Regulation: 2020        |                     |                     |             |
|-------------|----------|--------------|-------------------------|---------------------|---------------------|-------------|
| Year:       |          | III          | Semester: V             |                     |                     |             |
| Sl. No.     | Roll No. | Reg. No.     | Student Name            | Internal Marks (40) | External Marks (60) | Total (100) |
| 1           | 20UEC001 | 920420UEC001 | SAIRAM M                |                     |                     |             |
| 2           | 20UEC003 | 920420UEC003 | IRSHAD HASAN M          | 38                  | 55                  | 93          |
| 3           | 20UEC005 | 920420UEC005 | SANKARALINGAM R         | 37                  | 56                  | 93          |
| 4           | 20UEC006 | 920420UEC006 | A.MOHAMED MUSTAFA       | 38                  | 50                  | 88          |
| 5           | 20UEC008 | 920420UEC008 | MOHAN RAJ T             | 38                  | 48                  | 86          |
| 6           | 20UEC010 | 920420UEC010 | M.AJALI                 | 37                  | 59                  | 96          |
| 7           | 20UEC011 | 920420UEC011 | R.SRINIVASH             | 37                  | 52                  | 89          |
| 8           | 20UEC013 | 920420UEC013 | B.NANDHAKUMAR           | 38                  | 51                  | 89          |
| 9           | 20UEC015 | 920420UEC015 | SUKIL KUMAR             | 39                  | 53                  | 92          |
| 10          | 20UEC016 | 920420UEC016 | ARUL KUMAR              | 38                  | 55                  | 93          |
| 11          | 20UEC019 | 920420UEC019 | ASHOK KUMAR S           | 39                  | 54                  | 93          |
| 12          | 20UEC020 | 920420UEC020 | AMARNATH R              | 37                  | 58                  | 95          |
| 13          | 20UEC022 | 920420UEC022 | ABISHEK EDWARD S        | 38                  | 56                  | 94          |
| 14          | 20UEC024 | 920420UEC024 | M.MADHAVAN              | 37                  | 54                  | 91          |
| 15          | 20UEC025 | 920420UEC025 | M.JENSI                 | 39                  | 56                  | 95          |
| 16          | 20UEC027 | 920420UEC027 | V.S SHYAM               | 37                  | 52                  | 89          |
| 17          | 20UEC029 | 920420UEC029 | C.DHANALINGESH          | 38                  | 50                  | 88          |
| 18          | 20UEC030 | 920420UEC030 | VENKATESH C             | 39                  | 58                  | 97          |
| 19          | 20UEC031 | 920420UEC031 | SRIRAM.B                | 37                  | 58                  | 95          |
| 20          | 20UEC033 | 920420UEC033 | R.SELVAPRIYA            | 38                  | 50                  | 88          |
| 21          | 20UEC040 | 920420UEC040 | N.MEENAKSHI             | 39                  | 58                  | 97          |
| 22          | 20UEC043 | 920420UEC043 | JEYAROOBINI K           | 38                  | 54                  | 92          |
| 23          | 20UEC048 | 920420UEC048 | N.DINESH                | 39                  | 52                  | 91          |
| 24          | 20UEC049 | 920420UEC049 | YUVARAJ SINGH R         | 38                  | 50                  | 88          |
| 25          | 20UEC052 | 920420UEC052 | N.AKASHKUMAR            | 37                  | 54                  | 91          |
| 26          | 20UEC053 | 920420UEC053 | M.MATCHA SOUNDARYA      | 39                  | 55                  | 94          |
| 27          | 20UEC055 | 920420UEC055 | LAVANYA.C               | 38                  | 56                  | 94          |
| 28          | 20UEC056 | 920420UEC056 | K.PRATHAP CHANDRAN      | 37                  | 52                  | 89          |
| 29          | 20UEC059 | 920420UEC059 | T.S PREETHIKA DHARSHINI | 38                  | 51                  | 89          |
| 30          | 20UEC060 | 920420UEC060 | W.MARIA ANCY SHINESHA   | 39                  | 53                  | 92          |
| 31          | 20UEC061 | 920420UEC061 | PRASANNA R              | 38                  | 55                  | 93          |
|             |          |              |                         | 38                  | 54                  | 92          |

*[Signature]*  
 VAC Coordinator

*[Signature]*  
 HoD/ECE 1/19/20

Dean (Academic Courses)

# Review: Feedback - Value Added Course - Machine and AI

Respondent

16

LAVANYA.C(EC)

05:15

Time to complete

1. Name of the student \*

Lavanya.C

Score / 0 pts

2. Roll Number \*

20uec055

Score / 0 pts

3. Department \*

ECE

Score / 0 pts

4. Whether objectives of the Value Added Course Met? \*

Score / 0 pts

Completely agree

Strongly agree

Agree

Partly Agree

Disagree





Score / 0 pts

5. Was the Program sequence well planned? \*

Completely agree

Strongly agree

Agree

Partly Agree

Disagree

Score / 0 pts

6. Were the lectures clear and easy to understand? \*

Completely Agree

Option 2

Strongly Agree

Agree

Partly Agree

Disagree

Score / 0 pts

7. Were the instructors encouraged in the interaction? \*

Completely Agree

Strongly Agree

Agree

Partly Agree

Disagree



Whether the information presented at this event was highly beneficial. \*

Score / 0 pts

Completely Agree

Strongly Agree

Agree

Partly Agree

Disagree

Whether the organization of the Event was Good \*

Score / 0 pts

Completely Agree

Strongly Agree

Agree

Partly Agree

Disagree

Comments / Suggestions \*

Score / 0 pts

Nothing

T. Ram

# Review: Feedback - Value Added Course - Machine and AI

Respondent

1

SANKARLINGAM.R(EC)

01:01

Time to complete

1. Name of the student \*

Score / 0 pts

SANKARLINGAM R

2. Roll Number \*

Score / 0 pts

20UEC005

3. Department \*

Score / 0 pts

ECE

4. Whether objectives of the Value Added Course Met? \*

Score / 0 pts

Completely agree

Strongly agree

Agree

Partly Agree

Disagree



5. Was the Program sequence well planned? \*

Score / 0 pts

Completely agree

Strongly agree

Agree

Partly Agree

Disagree

6. Were the lectures clear and easy to understand? \*

Score / 0 pts

Completely Agree

Option 2

Strongly Agree

Agree

Partly Agree

Disagree

7. Were the instructors encouraged in the interaction? \*

Score / 0 pts

Completely Agree

Strongly Agree

Agree

Partly Agree

Disagree



9. Whether the information presented at this event was highly beneficial \*

Score / 0 pts

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

10. Whether the organization of the Event was Good \*

Score / 0 pts

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

11. Comments / Suggestions \*

Score / 0 pts

Nothing

T. Prasad

# Feedback - Value Added Course - Machine and AI

31  
Responses

01:59  
Average time to complete

Active  
Status

1. Name of the student (0 point)

31  
Responses

Latest Responses

"Srinivash"

"Sairam M"

"Arul kumar"

4 respondents (13%) answered R for this question.

|                  |                  |                 |
|------------------|------------------|-----------------|
| MATCHA SOUNDARYA | Sukil kumar      | NANDHAKUMAR B   |
| Sriram B         | Prasanna R       | JENSI M         |
| VENKATESH C      | AMARNATH R       | Arul kur        |
| Sairam M         | K B S            | C Dha           |
| AMohamed Mustafa | <b>R C KUMAR</b> | SANKARALINGAM R |
|                  |                  | JEYAROOBINI     |

2. Roll Number (0 point)

31  
Responses

Latest Responses

- \*20uec011\*
- \*20UEC001\*
- \*20uec016\*

1 respondents (3%) answered 20UEC005 for this question.

20UEC043 20UEC030  
 20uec055 20uec013 20uec019 20uec048  
 20uec006 20uec008 20UEC005 20uec027 20ue  
 20uec059 20uec061 20UEC020 20UEC022 20ue  
 20UEC010 20uec031 20uec

3. Department (0 point)

31  
Responses

Latest Responses

- \*Ece\*
- \*ECE\*
- \*Ece\*

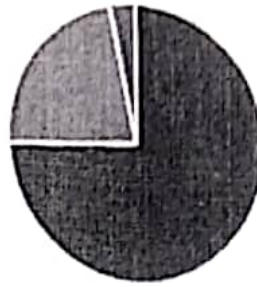
22 respondents (71%) answered ECE for this question.

**ECE** Electronics and C  
 Communicator

Whether objectives of the Value Added Course Met? (0 point)

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

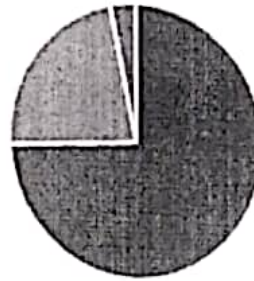
23  
7  
1  
0  
0



Was the Program sequence well planned? (0 point)

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

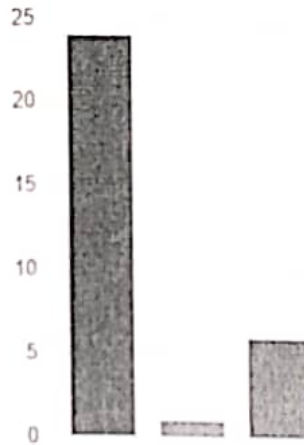
23  
7  
1  
0  
0



Were the lectures clear and easy to understand? (0 point)

- Completely Agree
- Option 2
- Strongly Agree
- Agree
- Partly Agree
- Disagree

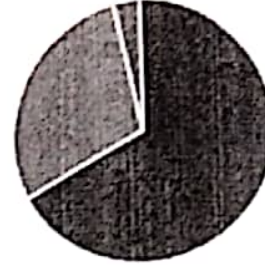
24  
1  
6  
0  
0  
0





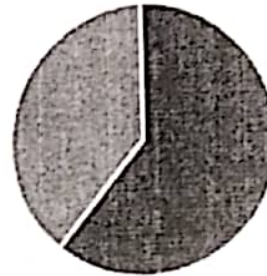
7. Were the instructors encouraged in the interaction? (0 point)

|  |    |
|--|----|
| <input type="radio"/> Completely Agree | 21 |
| <input type="radio"/> Strongly Agree   | 9  |
| <input type="radio"/> Agree            | 1  |
| <input type="radio"/> Partly Agree     | 0  |
| <input type="radio"/> Disagree         | 0  |



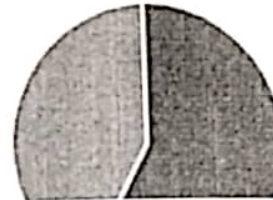
8. Whether the information presented at this event was highly beneficial. (0 point)

|  |    |
|--|----|
| <input type="radio"/> Completely Agree | 19 |
| <input type="radio"/> Strongly Agree   | 12 |
| <input type="radio"/> Agree            | 0  |
| <input type="radio"/> Partly Agree     | 0  |
| <input type="radio"/> Disagree         | 0  |



9. Whether the organization of the Event was Good (0 point)

|  |    |
|--|----|
| <input type="radio"/> Completely Agree | 18 |
| <input type="radio"/> Strongly Agree   | 13 |
| <input type="radio"/> Agree            | 0  |
| <input type="radio"/> Partly Agree     | 0  |



T. Barua

**KAMARAJ**  
**COLLEGE OF ENGINEERING & TECHNOLOGY**

An Autonomous Institution - AFFILIATED TO Anna University, Chennai  
B.P.O. Chidambaram Road - Nagendrapuram Campus  
B.P.O. Nagar, Vandalur - 625 701 (Dist: VIRUDHUNAGAR)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
ENGINEERING

Value added Course on Machine Learning & AI

Students Oral Feedback video link

Feedback-VAC

