

KAMARAJ

COLLEGE OF ENGINEERING & TECHNOLOGY



(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 and Engineering

TECHMAC'25



KAMARAJ COLLEGE OF ENGINEERING & TECHNOLOGY



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Dr.A.Meenakshi, M.E., Ph.D.,

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HoD of CSE

Editors



Mr.G.Praveen Kumar, M.E.,

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AP/CSE



Mrs.E.Vijayalakshmi, M.E.,

-

AP/CSE

Student Editorial Team



G.Godwin Samraj

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-

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M.Mohamed Parves

-

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Faculty Profile



**Dr.A.Meenakshi, M.E., Ph.D.,
Professor & HoD**



**Dr.R.Ramya, M.E., Ph.D.,
Associate Professor**



**Dr.A.Anandh, M.E., Ph.D.,
Associate Professor**



**Dr.G.Uma Maheswari, M.E., Ph.D.,
Assistant Professor**



**Mr.V.Rajesh kannan, M.E.,
Assistant Professor**



**Mr.R.Kumaravel, M.E.,
Assistant Professor**

Faculty Profile



**Mrs.S.Athilakshmi, M.Sc., M.Phil., M.E.,
Assistant Professor**



**Mrs.K.Muthu Lakshmi, M.E.,
Assistant Professor**



**Mr.B.Muthu Krishna Vinayagam, M.E.,
Assistant Professor**



**Mr.G.Praveen Kumar, M.E.,
Assistant Professor**



**Mr.J.John Livingston, M.Tech.,
Assistant Professor**



**Mr.D.Asir, M.Tech.,
Assistant Professor**

Faculty Profile



**Mrs.X.Ignatius Selvarani, M.E.,
Assistant Professor**



**Ms.S.Janani, M.E.,
Assistant Professor**



**Mrs.E.Vijayalakshmi, M.E.,
Assistant Professor**



**Mr.D.Raj, M.E.,
Assistant Professor**



**Mrs.K.Leelarani, M.E.,
Assistant Professor**



**Ms.D.Pradhiba, M.Tech.,
Assistant Professor**

Faculty Profile



**Mrs.G.Rohini Priya, M.E.,
Assistant Professor**



**Mr.S.Ram Prasath, M.E.,
Assistant Professor**



**Mrs.T.Divya, M.E.,
Assistant Professor**



**Mrs.M.Mohana, M.E.,
Assistant Professor**



**Mrs.K.Priyadharshini, M.E.,
Assistant Professor**



**Mrs.S.Archana Devi, M.E.,
Assistant Professor**

Faculty Profile



**Mr.G.Sundararaju, M.E.,
Assistant Professor**



**Ms.I.Shalom Priscilla, M.E.,
Assistant Professor**



**Mrs.G.C.Pushpalatha, M.E.,
Assistant Professor**



**Mrs.G.A.Muthuchelvi, M.E.,
Assistant Professor**



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VISION OF THE INSTITUTION

TO MAKE THE INSTITUTION THE ONLY OF ITS KIND IN THE FIELD OF RESEARCH AND DEVELOPMENT ACTIVITIES IN THE PART OF THE WORLD.

MISSION OF THE INSTITUTION

TO IMPART HIGHLY INNOVATIVE AND TECHNICAL KNOWLEDGE TO URBAN AND REMOTE RURAL STUDENTS THROUGH "TOTAL QUALITY EDUCATION."

QUALITY POLICY

COMMITTED TO IMPART QUALITY TECHNICAL EDUCATION IMBDED WITH PROFICIENCY, HUMAN VALUES AND CONTINUAL IMPROVEMENTS

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VISION OF THE DEPARTMENT

TO MAKE THE DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING THE UNIQUE OF ITS KIND IN THE FIELD OF RESEARCH AND DEVELOPMENT ACTIVITIES IN THIS PART OF WORLD

MISSION OF THE DEPARTMENT

TO IMPART HIGHLY INNOVATIVE AND TECHNICAL KNOWLEDGE TO THE URBAN AND UNREACHABLE RURAL STUDENT FOLKS IN COMPUTER SCIENCE AND ENGINEERING THROUGH "TOTAL QUALITY EDUCATION".



Department of Computer Science and Engineering

PROGRAM EDUCATIONAL OBJECTIVES

PEO1

Apply the necessary mathematical tools and fundamental knowledge of Computer Science & Engineering to solve the variety of Engineering problems.

PEO2

Develop software based solutions for real life problems and be a leaders in their profession with social and ethical responsibilities.

PEO3

Pursue life-long learning and research in selected fields of Computer Science & Engineering and contribute to the growth of those fields and society at large.

PROGRAM SPECIFIC OUTCOMES

PSO1

Profession Skills: The ability to understand, analyze and develop computer Programs in the areas related to algorithms, system software, multimedia, web design, big data analytics, and networking for efficient design of Computer-based systems of varying complexity.

PSO2

Problem - Solving Skills: The ability to apply standard practices and strategies in software project development using open-ended programming environments to deliver a quality product for business success.



Department of Computer Science and Engineering

ABOUT THE DEPARTMENT

The Department of Computer Science and Engineering was established in the year 1998 with the initial intake of 40. The primary objective of our department is to provide "Total Quality Education" in the field of information and Communication Engineering, amid 120 students per year. Computer Science & Engineering, a dazzling department for ever is always a forerunner in impacting innovative & technical knowledge to the aspirants. The department of Computer Science and Engineering has excellent infrastructure facilities and is powered with the highly sophisticated lab with the higher configuration systems and servers with recent software updated to meet the demands of the IT industry, Research and Development organizations and computer related areas. The department offers an excellent academic environment with a team of highly qualified faculty who are technically sound and talented persons. Our faculty members monitor student's performance regularly and give moral support and motivation to them. Our department has a separate association called CYBERHEFT through which we conduct various technical events to student.

HOD'S MESSAGE

"Technology is the driving force behind the evolution of our world, and at the Department of Computer Science and Engineering, we are committed to nurturing the next generation of innovators, problem-solvers, and leaders who will shape the future. As we stand at the intersection of cutting-edge research and real-world applications, our mission is to empower students with the knowledge, skills, and mindset to tackle global challenges and create transformative solutions. This tech magazine serves as a testament to the incredible advancements and ideas emerging from our vibrant community. It is a platform to celebrate creativity, collaboration, and the relentless pursuit of excellence. Let us continue to push boundaries, embrace curiosity, and harness the power of technology to build a smarter, more connected, and sustainable world. To our students, faculty, and industry partners - your passion and dedication inspire us every day. Together, let's keep innovating, learning, and leading the way in the ever-evolving landscape of technology."

Department of Computer Science and Engineering

HOD'S PROFILE

Dr. A. Meenakshi, Professor and Head of the Department of Computer Science and Engineering at Kamaraj College of Engineering and Technology, Near Virudhunagar, has over 25 years of teaching experience and nearly 15 years of research experience in the field of Computer Science and Engineering. She obtained her Master of Engineering in Computer Science and Engineering from Anna University, Chennai, and her Ph.D. in Information and Communication Engineering, specializing in Machine Learning, from the same university.

Dr. Meenakshi has published more than 15 papers in reputed national and international journals and presented over 20 papers at national and international conferences. She is a recognized research supervisor under the Information and Communication Engineering domain at Anna University, Chennai, and currently guides seven research scholars.

Her research interests include Big Data Analytics, Machine Learning, and Deep Learning. She is also a member of the Computer Society of India (CSI) and a life member of the Indian Society for Technical Education (ISTE).





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**DEPARTMENT
ACTIVITIES**



Department of Computer Science and Engineering

Value Added Course
(14.02.2025) to (22.02.2025)

CSE - Value Added Course 14-02-2025



Red Hat Certified System Administrator (RHCSA)



CSE - Value Added Course 14 - 02 - 2025



Data Structures and Algorithm using Java





Department of Computer Science and Engineering

Value Added Course
(14.02.2025) to (22.02.2025)





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**Value Added Course
(14.02.2025) to (22.02.2025)**





Department of Computer Science and Engineering

Faculty Peer Enablement Program



Mr.G.Praveen Kumar - CSE

Mr.B.Muthukrishna Vinayagam - AP CSE

19-02-2025

Department of Computer Science and Engineering

Guest lecture on : The Next Frontier of AI: Generative, Open &
Deep Seek AI



Mr.Keerthi Bharath M.S.(US),

AI Research and Developer | Operating Advisor| AI Investor, Informatica,
Syracuse University, New York, United States.



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FACULTY
ACHIEVEMENTS



Department of Computer Science and Engineering

Faculty Acting as Editorial Board Members in Journals

S. No	Name of the faculty	Designation & Department	Title of the journal	Publisher	Editor/Special Issue Editor/Associate Editor/Reviewer
1	Dr.R.Ramya	ASP/CSE	International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME)	-	Reviewer
2	Dr.R.Ramya	ASP/CSE	Scopus and the SCI Indexed Journal "Journal of Imaging Science and Technology"	Digital Publications	Reviewer
3	Dr.A.Anandh	ASP/CSE	Dynamic security and routing strategy-based health care monitoring with IoT in wireless sensor network	-	Reviewer



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Report on Faculty Members Development Program

FDP/Workshop/Seminar Attended by Faculty Members

S.No	Name of the Faculty	FDP/Workshop/Seminar	Date	Organizing Institution	Participated/ Presented
1	Mrs.M.Mohana AP/CSE	FDP on Next-Generation Algorithms and Technological Advances	06/01/2025 to 11/01/2025	MIT CAMPUS, anna university	Participated
2	Mrs.M.Mohana AP/CSE	FDP on Generative and ethical AI: Techniques and Applications with hands-on	20/01/2025 to 25/01/2025	NIT, Tiruchirappalli	Participated
3	Mrs.X.Ignatius Selvarani,AP/CSE	Faculty Enablement Program on Frontend Web Technologies	27/01/2025 to 31/01/2025	Infosys Springborad	Participated



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4	Mr.D.Asir, AP/CSE	Faculty Enablement Program on web Technologies	27/01/2025 to 31/01/2025	Infosys Springborad	Participated
5	Mrs.K.Leelarani, AP/CSE	One Week National Level Faculty Development program on Tools	17/02/2025 to 21/02/2025	CMR Engineering College in association with Brainovision India PVT Ltd	Participated
6	Mr.John Livingston, AP/CSE	I Tamilnadu Technology (ITNT) Hub Initiative programme	27/02/2025	Anna University Regional Campus, Madurai	Participated



Department of Computer Science and Engineering

VAC/FDP/Workshop/Seminar/Conferences/Guest Lectures Organized

VAC 2025-2026

S. No	Name of the programe	Date	No.of Participants	Resource Persons/ Chief Guest	Coordinators
1	Guest lecture on "Placement Launchpad Initiatives"	06/01/2025	Final Year CSE	Mr.V.Venkatesh Babu,Associate Professor&Head of Computer Science at Ayya Nadar Janiki Ammal College, Sivakasi	Ms.S.Janani, Ap/CSE Mrs.S.Athilakshmi, AP/CSE Mr.B.Muthukrishana Vinayagam, AP/CSE Mr.J.John Livingston, AP/CSE
2	VAC on Red Hat Certified System Administrator (RHCSA)	-	30	Mr.S.Suresh Kannan, Director, School of Linux, Madurai	Dr.A.Anandh, ASP/CSE Mr. G.Sundara Raju, AP/CSE
3	VAC on Client Server Architecture	-	30	Mr.R.Ramesh Kumar, Senior Developer Mr.S.Hari Raghav, Senior Developer Notasco Technologies, Bengaluru	Mr.R.Kumaravel, AP/CSE Mr.D.Raj, AP/CSE



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4	VAC on Data Structures using Java	-	60	Mr.Rajendran Subramanian, Technical Trainer Silicon Software Services, Chennai	Ms.G.Rohin Priya ,AP/CSE Ms.T.Divya,AP/CSE
5	VAC on IOT using MQTT	-	25	Er.M.Rajesh Kannan, CEO Er.Aravind Bhaskar, CTO Paruvathhe Payir Sei, Bengaluru	Dr.R.Ramya, ASP/CSE Ms.T.Pradhiba, AP/CSE Mr.G.Praveen Kuma, AP/CSE
6	VAC on PC Essentials	-	6	Mr. A. Rama Subramanian, Managing Director Mr.B.Karthikayan, Chief-Technical Mr.T. Ashiq Meeran, Technical Executive iTech Academy, Tirunelveli	Ms.E.Vijayalakshmi, AP/CSE Ms.M.Mohana, AP/CSE
7	2 days Workshop on "Deploying Virtualized Systems in Cloud Environments	17/02/2025 & 18/02/2025	57	Mr.R.Saravanakumar Ms.S.Jayalakshmi, Iconix Software Solution , Tirunelveli	Mr.S.Ram Prasath, AP/CSE, Mrs.K.Priyadharshini AP/CSE



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8	CAREER LAUNCH PAD: TWO DAYS INTENSIVE WORKSHOP FOR PLACEMENT SUCCESS	19/02/2025 & 20/02/2025	-	Ms.SHIVANI RAGUPATHI, and Ms.N.ASHWINI Softskill Trainers from Bitstep	Mr.S.Ram Prasath, AP/CSE, Mrs K.Priyadharsini .AP/CSE
9	PEER ENABLEMENT PROGRAM on "Effective Utilization of Smart Classroom"	-	-	-	Mr. G. Praveen Kumar, AP/CSE and Mr. B. Muthukrishana Vinayagam AP/CSE



Department of Computer Science and Engineering

Report on Achievement by faculty members members & Students

Guest Lecture Delivered/Acted as Resource Persons in Symposium/ Seminar/
Conference /FDP/Workshop by Faculty Members/Acted as a Reviewer for Book
Chapters/Acted as a Session Chair/ Acted as a Jury Member

S. No	Name of the Faculty	Name of the Programme/ Title	Date	Organizing Institution	Sponsored by	Resource Person/ Chair Person/ Guest Speaker,etc.
1	DR.A.Meenakshi, Prof. & HOD CSE	Book Titled on Algorithms: Design and Analysis	10/02/20 25	Organizing Institution	-	Resource Person/ Chair Person/ Guest Speaker,etc.
2	Dr.R.Ramya, ASP-CSE,	Guest Lecture on Machine Learning	10/02/20 25	Department of Computer Applicatin, SBK College, Aruppuktai	-	Chief Guest and Resource person



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3	Dr.R.Ramya, ASP-CSE	Interntional Conference on Next Gen:Data Analytics and Innovations in Modern Computing 2K25	17/02/2025	-	-	Guest Speaker
4	Dr.R.Ramya, ASP-CSE	Guest Lecture on IoT Powered Machine Learning	27/02/2025	Study World College of Engineering ,Coimbatore	IEEE Student Branch and IETE ISE Forum	Resource Person



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- Mrs. Athilakshmi, AP/CSE have completed the Online learning session on the "Java Programming Course for Beginners" on the platform Crio.do
- Mr. J. John Livingston, AP/CSE attended the AWS Cloud Practitioner Certification exam and cleared the AWS Certification
- The Department of CSE signed a Memorandum of Understanding (MoU) with Notasco Technologies India Private Limited this enables various opportunities for students with respect to web development training, internships, and placements.
- The Department of CSE conducts 6 days of AWS cloud Practitioner Certification training from 21.1.25 to 26.1.25. This training has been conducted for final year students, after completing the training, students will take Cloud practitioner certification exams.
- Infant Regies A, Yukesh U, Anushaa P S, Reshmi M of III CSE attended an assessment round of OpenWeaver Hackathon 2025 organized in collaboration with OpenWeaver and CII on 23.01.2025.
- Dr.R.Ramya, ASP / CSE, selected as an Evaluator for School Innovation Marathon (SIM) organized by Innovation Cell, Ministry of Education, Government of India, AICTE on 28.01.2025.



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- Ms. Aaditi, II-CSE, has been invited to deliver an alumna speech at PSC main school, Virudhunagar on the topic "Healthy routine" during the commendable event of Episode #31 of "Alumna of the Week" on 29.01.2025.
- The Department of CSE signed an MoU with Tarcin Robotics, Madurai on 07.02.2024.
- The CSE department's Kamaraj Space Club Members Visit to ISRO, Mahendragiri on 14.02.2025.
- Mr. D. Asir, AP/CSE has successfully completed the Infosys Springboard video-proctored Certification on "Front End Web Developer" on 24.02.2025
- Mrs. Ignatius Selvarani.X, AP/CSE has successfully completed the Infosys Springboard video-proctored Certification on "Front End Web Developer" on 24.02.2025.



Department of Computer Science and Engineering

Placement 2021-2025 Batch

S.No	Sec	Roll Number	Register Number	Name of the Student	Name of the company
1	A	21UCS119	920421104065	NIRANCHANA SHREE.S.R.	Centizen Tirunelveli
2	B	21UCS088	920421104031	JABEZ JERIN.J	Centizen Tirunelveli
3	A	21UCS067	920421104108	VASEEKARAN.S	Clustrex - Chennai
4	B	21UCS060	920421104084	RUTHICK SREE.S	Clustrex - Chennai
5	A	21UCS025	920421104032	JANA VIKRAM.K.M. S	Xmplar - MDU
6	A	21UCS052	920421104119	YOGESHWARAN.R	Xmplar - MDU



Department of Computer Science and Engineering

7	A	21UCS080	920421104082	RISHIKESH.C	Xmplar - MDU
8	A	21UCS111	920421104007	ARUN KUMAR.K	Xmplar - MDU
9	A	21UCS116	920421104049	KOUSHIKAN.S	Xmplar - MDU
10	B	21UCS002	920421104005	ABIRAMI.V	i-Chainsys MDU
11	B	21UCS109	920421104006	ARUL KUMARAN.S	i-Chainsys MDU
12	B	21UCS019	920421104019	DHANASEKARAN.M	i-Chainsys MDU
13	B	21UCS064	920421104013	BALAJI.J	i-Chainsys MDU
14	B	21UCS095	920421104034	JEMIMA.K	i-Chainsys MDU
15	B	21UCS108	920421104042	KAVIYA.K	i-Chainsys MDU
16	B	21UCS009	920421104068	NITHYA SRIM	i-Chainsys MDU
17	A	21UCS044	920421104078	PUNITHA BRIDJITH.A	i-Chainsys MDU
18	B	21UCS102	920421104079	RAJA ASWIN.T	i-Chainsys MDU
19	B	21UCS117	920421104101	SUGANESAN.D	i-Chainsys MDU
20	B	21UCS042	920421104107	THIRISHA.M	i-Chainsys MDU



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21	B	21UCS039	920421104035	JESWANTH.S	Relevantz-MDU
22	B	21UCS099	920421104043	KAVYA SRI VAIPAVA.S	Relevantz-MDU
23	A	21UCS114	920421104062	MUKESH.N	Relevantz-MDU
24	A	21UCS084	920421104067	NITHIS BANGARU.B	Relevantz-MDU
25	A	21UCS079	920421104105	THANGA BALAJI.P	Relevantz-MDU
26	B	21UCS030	920421104117	VISHWESHWARAN.E	Relevantz-MDU
27	A	21UCS028	920421104110	VIGNESH KUMARAN.A	Hexaware
28	A	21UCS065	920421104001	AAKAASH KUMAR.M	Novacis Digital-Chennai
29	A	21UCS034	920421104066	NIRANJANA.P	Novacis Digital-Chennai
30	B	21UCS056	920421104041	KATHIRVEL.A	Novacis Digital-Chennai
31	A	21UCS058	920421104100	SRIRAM RATHINAVEL.P	Novacis Digital-Chennai
32	A	21UCS122	920421104303	KARTHIKEYAN. T.S.	Coding Bees
33	B	21UCS071	920421104103	SURYA.A	Coding Bees
34	A	21UCS101	920421104014	BANU SUBIKSHA.M	Kaaviyan Systems-VNR
35	A	21UCS010	920421104018	DEEPAN SAKKARAVARTHI.S	Kaaviyan Systems-VNR



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36	A	21UCS106	920421104097	SIVARANJANI.S	Kaaviyan Systems-VNR
37	A	21UCS068	920421104116	VISHVA.K	Kaaviyan Systems-VNR
38	B	21UCS049	920421104104	SWATHI.R	Kaaviyan Systems-VNR
39	A	21UCS081	920421104008	ASATH SUGAINA.A	Trivine Technology
40	A	21UCS041	920421104023	GOVINDARAJAN.D	FACEPREP
41	A	21UCS054	920421104056	MAHARANJITHAM.S	FACEPREP
42	B	21UCS007	920421104072	PRABHU.B	FACEPREP, TERV
43	B	21UCS123	920421104307	VASUDEVAN	FACEPREP
44	A	21UCS012	920421104088	SANGEETHA.K	FACEPREP
45	A	21UCS013	920421104028	HARSHINA SRIM. G	FACEPREP
46	A	21UCS043	920421104064	NAVANEETHA KRISHNAN.A	FACEPREP
47	A	21UCS077	920421104026	HARIHARAN.C	ZOHO
48	B	21UCS073	920421104094	SHIYAM.A	TERV



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49	A	21UCS051	920421104070	PAVITRA RAO.S	TERV
50	A	21UCS062	920421104047	KIRUTHIKA.S	TERV
51	A	21UCS005	920421104081	RAJESWARI.R	SKILL MINE
52	B	21UCS063	920421104099	SRI SHARAN PRAKASH.S	SKILL MINE
53	A	21UCS023	920421104118	YASWANT.R	IZAPY,Mitsuba,Aarvik
54	B	21UCS103	920421104058	MANOJKUMAR.R	IZAPY, Zoho
55	A	21UCS038	920421104022	GANNIGAA.S	Infosys, Vinsinfo
56	A	21UCS024	920421104029	HEMSHIKA HARINI DEVI.C. S	Infosys
57	B	21UCS045	920421104113	VIGNESH.S	6F
58	B	21UCS026	920421104069	PAVITHRAN.R	6F
59	B	21UCS037	920421104057	MANIKANDAN.V	Aarvik Digital IT Solutions



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60	B	21UCS107	920421104021	DINESH.S	Aarvik Digital IT Solutions
61	A	21UCS008	920421104003	AARON ARULRAJ.A	Sure Soft
62	B	21UCS050	920421104010	ASWINI.M	Sure Soft, Quintessence Business Solution, Roriri Software
63	A	21UCS098	920421104115	VISHNU.N	Sure Soft
64	B	21UCS059	920421104053	LITHIN.X	Kaashiv Info Tech, Chennai



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**STUDENT
ARTICLES**



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PADMA MUNISH DHANAJEYAN T

24UCS027

II CSE 'C'

A quantum computer is a revolutionary machine that uses quantum bits, or qubits, instead of classical bits. Unlike traditional computers that process information as 0 or 1, qubits can exist in multiple states at once, thanks to superposition and entanglement. This unique capability allows quantum computers to perform complex calculations much faster than conventional systems, posing both opportunities and risks.

Today, most digital security relies on algorithms like RSA, ECC, and AES, which are considered secure because they depend on mathematical problems too difficult for classical computers to solve quickly. However, if a fully functional quantum computer emerges, it can break these encryption methods using algorithms like Shor's, making current security systems vulnerable. Sensitive data such as banking information and government records could be decrypted in minutes.

To counter this risk, researchers are developing Post-Quantum Cryptography (PQC)-encryption methods designed to withstand quantum attacks. Leading approaches include lattice-based cryptography, which uses complex mathematical structures, code-based systems that rely on error-correcting codes, and hash-based signatures for secure authentication. In addition, companies and governments are exploring quantum key distribution (QKD), which uses the principles of quantum mechanics to share encryption keys securely. Organizations like NIST are currently standardizing PQC algorithms, ensuring a smooth transition before large-scale quantum computers arrive. In conclusion, preparing for a quantum future is not optional-it is essential to safeguard our data and maintain trust in digital systems.

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Reimagining Education: AI-Driven Personalized Learning for Every Child



Education is the foundation of human progress, yet traditional systems often fail to cater to individual learning styles, pace, and interests. Millions of students struggle because the one-size-fits-all approach does not recognize their unique strengths and weaknesses. What if technology could revolutionize education to make learning truly personalized, inclusive, and globally accessible?

Traditional classrooms treat all students the same, leaving many disengaged. Teachers are overburdened and cannot provide individual attention, and students in remote areas or with special needs are often left behind. Standard assessments fail to measure creativity, problem-solving, or critical thinking effectively, further widening educational inequality.

Imagine an AI tutor for every child, available 24/7, adapting to their learning style and pace. Adaptive content delivery analyzes performance and provides personalized exercises, videos,



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and projects. Real-time feedback helps learners correct mistakes immediately. Gamified learning transforms education into an engaging experience, enhancing retention. AI can also provide mentorship and career guidance, identifying strengths and suggesting suitable career paths. Cloud-based platforms ensure that even students in remote areas can access quality education.

The social impact of AI-driven personalized learning is profound. It reduces inequality, fosters creativity and problem-solving, and allows teachers to focus on mentorship rather than repetitive instruction. Students are better prepared for the future workforce with skills in AI, critical thinking, and innovation.

Technologically, this approach leverages AI and machine learning for adaptive learning algorithms, data analytics for progress tracking, cloud computing for scalability, VR/AR modules for immersive learning, and blockchain to securely store achievements.

Thank You



H.Dharshana

23ucs027

III CSE 'B'

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“AI-Driven Code Evolution: When Software Starts Writing Itself”.

The rapid advancement of artificial intelligence has led to a new era where software can improve and even write itself — a concept known as AI-driven code evolution. Unlike traditional programming, where humans manually craft every line, AI systems analyze patterns, detect inefficiencies, and autonomously rewrite or optimize code. This self-improving cycle allows software to adapt to new requirements, enhance performance, and eliminate bugs faster than human developers. With the integration of machine learning models, AI can predict optimal structures, reuse existing logic, and automate complex debugging, marking a major shift in software engineering.



In this evolving ecosystem, AI-powered tools such as GitHub Copilot, DeepCode, and CodeOptiQA represent the early stages of autonomous coding. These systems are capable of understanding context, recommending smarter logic, and even refactoring outdated codebases. Advanced models trained on massive repositories learn from millions of examples, generating production-ready code with minimal human intervention. Beyond assistance, AI is now being embedded into Continuous Integration and Continuous Deployment (CI/CD) pipelines to ensure that code is not only functional but also optimized for speed, memory, and scalability. This makes development faster, more reliable, and highly efficient.



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Looking forward, AI-driven code evolution could redefine how software is built, maintained, and secured. Imagine a future where systems continuously monitor their own performance, detect vulnerabilities, and generate optimized patches automatically. Developers would shift from coding line-by-line to guiding AI systems with intent and design goals. This autonomous development pipeline reduces human error, accelerates innovation, and enables adaptive systems that evolve in real time. While challenges like ethical control, accountability, and trust remain, the rise of AI-coded intelligence marks the dawn of self-developing software — where the boundary between developer and machine begins to blur.



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STUDENTS ACHIEVEMENTS

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CERTIFICATE OF EXCELLENCE – PROJECT PUNCH



P.Pavithra received Mr./Ms. Innovative – Certificate of Excellence by Kamaraj College of Engineering and Technology in association with Project Punch & Rotary