

MOOKAMBIGAI

COLLEGE OF ENGINEERING

DEPARTMENT OF
COMPUTER SCIENCE AND ENGINEERING



<QUBIT>

2020 - 2021



Founded in 1985, Mookambigai College of Engineering is an offspring of the Sri Mariamman Educational, Health and Charitable Trust, Woraiyur, Tiruchirappalli. The Management consists of a team of progressive minded and benevolent Trustees who has at the helm the far-sighted and enthusiastic Founder Chairman Late Thiru S. Subramaniam. Srinivasa Polytechnic is also run by the Trust in the same campus.

Since its inception, Mookambigai College of Engineering has been treading a path of steady and sustained growth and achievements. Today this institution is an epitome of excellence bearing testimony to the high educational standards with a bi-dimensional perspective viz. dedicated student faculty involvement and a continuous industry-institution- society interaction.

The Institution is affiliated to Anna University, Chennai. It is located on a sprawling 200 acres of land in the tranquil and serene village of Kalamavur on Trichy-Pudukkottai highway, 20 kms from Trichy Airport which is the geographical centre of Tamil Nadu.

Presently, the alumni of our college exceeding 13500 are present around the world in various countries, who offer inspiring testimony to the credentials of their “Alma Mater”.

We have dedicated ourselves for the cause of generating talented and competent Engineers with commendable ethical and moral values, who can contribute to our country’s sustained growth towards becoming one of the Developed Nations of the World.



**Late Thiru S. Subramaniam.
FOUNDER CHAIRMAN**

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VISION OF INSTITUTE

- **To be an institution of excellence committed to quality engineering education and research towards producing socially responsible citizens.**

MISSION OF INSTITUTE

- **To impart quality technical education in producing competent engineers by providing a conducive learning environment.**
- **To build a high quality human resource capacity with focus on professionalism and dedication.**
- **To inculcate ethical values by adopting holistic teaching methodologies.**
- **To instill innovative thinking and entrepreneurial traits by collaborating with industry and academia.**

VISION OF DEPARTMENT

- **To produce competent software engineers with ethical values for the betterment of society.**

MISSION OF DEPARTMENT

- **To foster quality education in computer science by facilitating learner centric environment.**
- **To improve problem solving skills, leadership qualities, team spirit with ethical responsibilities by practicing on latest technological. developments**
- **To enhance the students' employability by inking MoU with industries.**
- **To motivate the students to bring out their talents by improving participation in various activities.**

PROGRAM EDUCATIONAL OBJECTIVES OF CSE DEPARTMENT

- **Serve professionally while engaging in government firms, industries or being entrepreneurs.**
- **Work effectively in different fields with a core expertise in analysis, design, networking, security and development using advanced tools.**
- **Exhibit the leadership in diverse fields with fulfilment and ethical values while working with interdisciplinary teams**
- **Develop professionally by independent lifelong learning and have an attitude to adapt to emerging technologies**

PROGRAM SPECIFIC OUTCOMES OF CSE DEPARTMENT

- **To analyze, design and implement complex Engineering problems by applying fundamental concepts of Computer Science and Engineering.**
- **To apply software Engineering principles and practices for developing quality software for scientific and business applications**
- **To adapt with emerging programming languages and various components of a system which will be competent to address contemporary issues**

EDUCATIONAL OBJECTIVES OF CSE DEPARTMENT

- **To prepare students for developing excellence in Professional Career, Research & Development and in Higher Education by having deep understanding of Mathematics, Computing and Engineering principles.**
- **To enable students to meet real life challenges, designing appropriate computing systems that are technically sound, economically feasible and socially acceptable in current time changing environment by using modern tools.**
- **To encourage, motivate and prepare Learner's for Lifelong-learning.**
- **To develop the ability among students to scrutinize the social and human context of computing as it impacts individuals, team work, organizations and society including ethical, legal, security and global policy issues.**
- **To train students with innovative ideas, skills with best learning, teaching and leadership qualities.**

EDUCATIONAL OBJECTIVES OF CSE DEPARTMENT

- **An ability to analyze the local and global impact of computing on individuals, organizations, and society.**
- **An understanding of professional, ethical, legal, security and social issues and responsibilities.**
- **An ability to function effectively individually and on teams, including diverse and multidisciplinary, to accomplish a common goal.**
- **An ability to communicate effectively for knowledge, convincing methodologies formulated with a range of audiences.**
- **An ability to work and learn independently and an appreciation of the importance of continuing education and professional growth over the course of a lifetime.**
- **An understanding of engineering and management principles and apply these to manage projects technically and economically**

EXECUTIVE COUNCIL OF INSTITUTE



**MRS. R.UMA
CHAIRPERSON**

Ever since the founder Chairman Thiru S. Subramaniam went to his eternal abode in 2016, his daughter Tmt. R. Uma took up this herculean responsibility of the administration of the institution. She adorns the chair of her beloved father with the same spirit and mind, following his footprints. She is committed to safe guard the nodal legacy that her father had left behind.

EXECUTIVE COUNCIL OF INSTITUTE



MR. D.RAVI
CHIEF EXECUTIVE

The Chief Executive Thiru D. Ravi is not only the life partner of the Chairperson Tmt. R. Uma, but also the sole person who shoulders her in administering the institution with the spirit of the Chairman. From administration to academics, every activity is overseen by him. He is in constant consultation with the Director and the Principal to ensure the development of the institution and progress in academics.

EXECUTIVE COUNCIL OF INSTITUTE



Dr.Prof. P.VASUDEVAN
DIRECTOR



Dr. R.ELANGOAN
PRINCIPAL



DR.M.G.SOMASUNDARA
MOORTHY
ADMINISTRATIVE OFFICER



Dr.Prof. P.VASUDEVAN
DIRECTOR

Dear STUDENTS,

MOOKAMBIGAI COLLEGE OF ENGINEERING, having a glorious past of about 36 years after independence, has been the foremost institution of higher technical education in the southern region. This institution of higher learning has immensely contributed to the nation building by providing intellect talent possessing latest analytical, design, practical and managerial skills.

Our students have infiltrated into all sectors be it government, private or public to serve the country in various capacities. Our competent faculty and the State of The Art infrastructure together with compulsory 6 months internship programme at an industry of repute help them in developing their overall personality to meet the challenges at global level and come out with the optimum solutions.

It is my strong belief that given an opportunity, the students of this great temple of learning will prove an asset to the recruiting organisations. We extend a warm invitation to the organisations/companies looking for budding engineers to visit our serene campus for a possible human resource par excellence. We are also looking for mutual association and collaboration with the industry at various other levels, for example, guest lectureships, workshops, laboratory mentorships, joint R & D projects etc., and would highly appreciate industry participation in this endeavour.

Regards,

DR.PROF. P.VASUDEVAN
DIRECTOR

Contact Us

E-mail

pdkmce@gmail.com

Phone

04339 - 262141, 262273



Dr. VALARMATHI NACHIYAPPAN,
HEAD OF THE DEPARTMENT.

Dear STUDENTS,

Welcome to Department of Computer Science & Engineering, MCE.

The Department of Computer Science and Engineering welcomes you to be a part of the thriving computer science community and become visionaries and change makers of the future. Department of CSE came into existence in the year 1991 with an intake of 60 and at present, the department has an intake of 180. Our distinguished faculty members ensure a wide range of diverse learning experiences ranging from the fundamentals of Computer Science, Core Courses, Programming, Emerging Technologies like Big Data Analytics, Data Mining, IoT, AI, Machine Learning, Cyber Security, Block-chain, Professional Ethics, Research Methodologies and Open-Source Technologies—to name just a few.

The Department is proud to have a strong-alumni-network, many of whom hold influential positions in the Information Technology industry and academia, at both, national and international levels. We look forward to having talented students, researchers, academicians, and professionals join us and augment the healthy and competitive learning atmosphere we have on campus! Also CSE department is having MoUs with some of the best organizations and trying to strengthen them further

Regards,

DR.,VALARMATHI NACHIYAPPAN
HEAD OF DEPARTMENT

Contact Us

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FACULTY MEMBERS



Dr. P. Valarmathi M.E., Ph.D.
HOD & Professor



Dr. P. Vasudevan M.E., Ph.D.
Professor



Mrs. D. Ramya Cauvery, M.E.,
Assistant Professor

FACULTY MEMBERS



Ms. C.Sakunthala, M.E.,
Assistant Professor



Mrs. M. Flora Mary, M.E.,
Assistant Professor



Mrs. Y. Suganya M.E.,
Assistant Professor

FACULTY MEMBERS



Mrs. G. Sharmila M.E.,
Assistant Professor



Mrs. P. Sigappi, M.E.,
Assistant Professor



Mrs. B. Jeyanthi M.E.,
Assistant Professor

FACULTY MEMBERS



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



Mr. T. Jahir Hussaini M.E.,
Assistant Professor



Mrs. C. Gokila Priyatharshini
M.E.
Assistant Professor

DEEP LEARNING

-Divya Bharathi

Final year CSE

In recent years, the field of artificial intelligence has undergone a revolution, with deep learning at its forefront. Deep learning, a subset of machine learning, has enabled machines to learn from vast amounts of data, mimicking the workings of the human brain. This article explores the essence of deep learning, its applications, and its implications for the future.

Applications of Data Mining:

Data mining finds applications in diverse fields, including business, healthcare, finance, marketing, and telecommunications. In business, it helps organizations optimize operations, identify market trends, and enhance customer experiences through personalized recommendations. In healthcare, data mining aids in disease prediction, treatment optimization, and medical research. Similarly, in finance, it facilitates fraud detection, risk assessment, and portfolio management.

Implications for the Future:

The widespread adoption of deep learning has profound implications for society. While it promises to revolutionize industries and enhance productivity, it also raises concerns about job displacement and algorithmic biases. Additionally, there are ethical considerations surrounding the use of deep learning in areas such as surveillance and decision-making.

Conclusion

Deep learning represents a powerful tool for harnessing the potential of artificial intelligence. As researchers continue to push the boundaries of what is possible, it is essential to remain vigilant about the ethical and societal implications of this technology. By leveraging deep learning responsibly, we can unlock new opportunities for innovation and create a better future for all.

DATA MINING

-Arul Selvi

Third year CSE

In the digital age, data has become the new currency, and organizations are constantly seeking ways to extract valuable insights from the vast seas of information. Data mining emerges as a powerful technique for uncovering hidden patterns, correlations, and trends buried within complex datasets. This article delves into the fundamentals of data mining, its applications across various domains, and its significance in shaping the future of decision-making.

Applications of Data Mining:

Data mining finds applications in diverse fields, including business, healthcare, finance, marketing, and telecommunications. In business, it helps organizations optimize operations, identify market trends, and enhance customer experiences through personalized recommendations. In healthcare, data mining aids in disease prediction, treatment optimization, and medical research. Similarly, in finance, it facilitates fraud detection, risk assessment, and portfolio management.

Challenges and Future Directions:

Despite its benefits, data mining presents several challenges, including data quality issues, privacy concerns, and the interpretability of complex models. Additionally, as datasets continue to grow in size and complexity, scalability and computational efficiency become paramount. Researchers are actively exploring innovative techniques and methodologies to address these challenges and unlock the full potential of data mining.

Conclusion:

Data mining stands as a cornerstone of the data-driven revolution, enabling organizations to extract actionable insights and drive innovation. As we navigate the ever-expanding seas of data, it is essential to harness the power of data mining responsibly, ensuring ethical use and safeguarding privacy. By leveraging data mining effectively, we can unlock new possibilities, drive informed decision-making, and shape a brighter future for all.

CLOUD COMPUTING

-Vigneshwaran

Third year CSE

, cloud computing refers to the delivery of computing services—including storage, databases, servers, networking, software, and analytics—over the internet ("the cloud"). Unlike traditional computing models that rely on physical hardware and on-premises infrastructure, cloud computing allows users to access resources and services on-demand, from anywhere with an internet connection.

Cloud computing is characterized by several key attributes that distinguish it from conventional IT infrastructure:

1. On-Demand Self-Service:

Users can provision computing resources, such as server instances or storage, automatically without requiring human intervention from the service provider.

2. Broad Network Access:

Cloud services are accessible over the network and can be accessed through standard mechanisms, facilitating ubiquitous access from a variety of devices.

3. *Resource Pooling*:

Cloud providers pool computing resources to serve multiple users, allowing for dynamic allocation and reallocation of resources based on demand.

4. *Rapid Elasticity*:

Cloud services can scale rapidly to accommodate fluctuations in demand. Resources can be provisioned and released quickly to match changing requirements.

The Future of Cloud Computing*

As technology continues to evolve, the future of cloud computing promises even greater innovation and transformation. Emerging trends such as edge computing, serverless computing, artificial intelligence (AI), and quantum computing are poised to reshape the cloud landscape, driving new opportunities and possibilities for businesses and society as a whole.

DATA SCIENCE

-Atchayasri

Second year CSE

Data science can be broadly defined as the process of collecting, analyzing, interpreting, and deriving insights from data to inform decision-making and solve complex problems. It encompasses a diverse set of techniques and methodologies, including statistical analysis, machine learning, data mining, and data visualization, applied across various domains and industries.

The Data Science Lifecycle*

The practice of data science typically follows a structured lifecycle, comprising several key stages:

1. *Data Acquisition*:

Data scientists collect data from various sources, including databases, APIs, sensor networks, and web scraping techniques, ensuring data quality and integrity throughout the process.

2. *Data Preprocessing*:

Raw data often requires cleaning, transformation, and normalization to remove errors, inconsistencies, and missing values, preparing it for analysis.

3. Exploratory Data Analysis (EDA):

EDA involves visualizing and summarizing data to gain insights into its distribution, correlations, and underlying patterns, guiding subsequent analysis and modeling efforts.

4. Modeling and Analysis:

Data scientists apply statistical and machine learning techniques to build predictive models and uncover relationships within the data, leveraging algorithms such as regression, classification, clustering, and deep learning.

The Future of Data Science

As data continues to proliferate and technology advances, the future of data science holds immense promise for driving innovation and addressing complex societal challenges. Emerging trends such as automated machine learning (AutoML), federated learning, and ethical AI are poised to reshape the data science landscape, empowering organizations to extract greater value from data while ensuring ethical and responsible use.

CHATGPT 4

-Nandha Kumar
Second year CSE

ChatGPT 4 is the latest iteration of OpenAI's renowned language model, leveraging state-of-the-art techniques in deep learning and natural language processing. Trained on vast amounts of text data, ChatGPT 4 exhibits a remarkable ability to generate contextually relevant responses, engage in meaningful conversations, and adapt to diverse conversational styles. With an expanded knowledge base and improved understanding of context, ChatGPT 4 sets new standards for conversational AI.

Key Features of ChatGPT 4:

1. Enhance Contextual Understanding:

ChatGPT 4 excels in understanding and maintaining context across longer conversations, enabling more coherent and natural interactions.

2. Multi-Turn Dialogue Capability:

With the ability to engage in multi-turn dialogues, ChatGPT 4 can sustain conversations over extended periods, leading to more engaging and dynamic interactions.

Applications of ChatGPT 4:

ChatGPT 4 holds immense potential across a wide range of applications, including customer service, virtual assistants, education, content generation, and entertainment. In customer service, it can provide personalized support and assistance to users, improving satisfaction and efficiency. In education, it can serve as a virtual tutor, offering personalized learning experiences and feedback. In content generation, it can assist writers and creators in generating ideas, refining drafts, and crafting compelling narratives.

Conclusion:

ChatGPT 4 represents a quantum leap in conversational AI, offering unprecedented levels of understanding, engagement, and versatility. As organizations and developers harness its capabilities, ChatGPT 4 has the potential to reshape communication, collaboration, and creativity in profound ways. By embracing ChatGPT 4 responsibly and ethically, we can unlock new opportunities for innovation.

PLACEMENT RECORDS (2019-2020)

S.No	Name of the Student	Enrolment No.	Employee Name	Appointment No.
1.	ABDUL RAHMAN M	812816104001	EY	Sep-20
2.	ABINAYA T	812816104002	EMINENCE BUSINESS SOLUTION	2020
3.	ADHITHYA PRAHLADH V	812816104004	INFOSYS , BANGALORE	Jun-21
4.	AISWARYA M	812816104005	GTECH SOLUTION	Jan-22
5.	AJITH D	812816104006	DSM SOFT,TRICHY	May-22
6.	ANISHA QUEEN T	812816104007	VR DELLA	2021
7.	BHAPIYA RANI M	812816104008	AMAZON	Apr-22
8.	DHATCHINA MOORTHY R	812816104009	KYNDRYL, CHENNAI	Jan-22
9.	DHURUVAN C P	812816104010	WIPRO LIMITED	Aug-21
10.	GOBIKA V	812816104011	EMINENCE BUSINESS SOLUTION	2020

PLACEMENT RECORDS (2019-2020)

11.	HARRYVIJJEY HR	812816104013	CAPGEMINI	Mar-22
12.	JANANI S	812816104014	AXXIMUM BUSINESS SOLUTIONS	Sep-21
13.	JAYARAM K	812816104015	SPORFY INDIA PRIVATE LIMITED	Jan-21
14.	KEERTHIKA K	812816104018	TECH MAHINDRA	Aug-21
15.	KEERTHIKA M	812816104019	EMINENCE BUSINESS SOLUTION	2020
16.	MONIKA G	812816104022	INFOSYS , BANGALORE	Mar-21
17.	MUFITHA A	812816104023	VR DELLA	2021
18.	NANDHINI DEVI R	812816104024	STG INFOTECH,CHENNAI	Jun-22
19.	NEELAKANDAN G	812816104025	VWEB 3 TECHNOLOGY CHENNAI	2022
20.	VAISHNAVI DEVI R	812816104034	EMINENCE BUSINESS SOLUTION	2021
21.	VASANTHAKUMARI P	812816104035	TECHZARINFO	Feb-22
22.	VINOTHA S	812816104036	EMINENCE BUSINESS SOLUTION	2021
23.	SRIDHARAN L	812816104302	GBS SYSTEMS SERVICES PVT LTD.	Aug-21
24.	HARENI M	812816104701	CSS CORPORATION	Aug-21
25.	VISHWANATHAN S	812816104303	STREEDHARANI INFRA DEVELOPERS, DINDIGUL	Mar-22

Congratulations to all the placement students! Your hard work and dedication have paid off, and we're thrilled to celebrate your achievements. Here's to the exciting journeys ahead and the bright futures you're destined to create!

FACULTY ACHIEVEMENTS



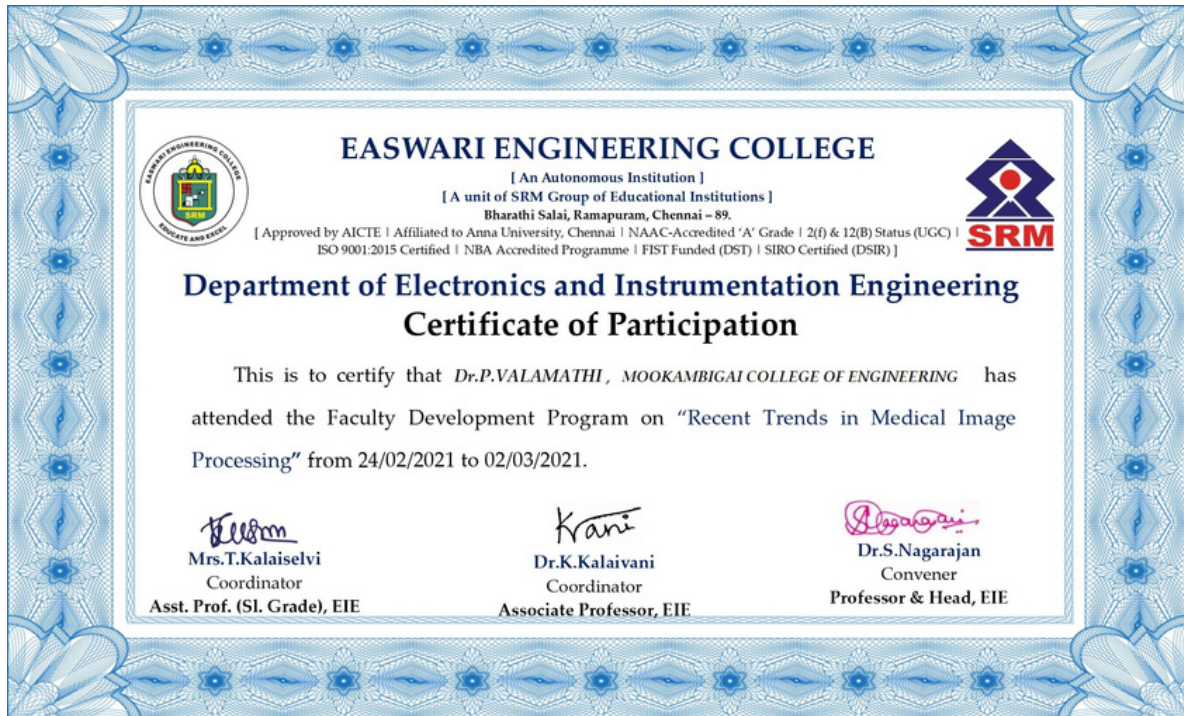
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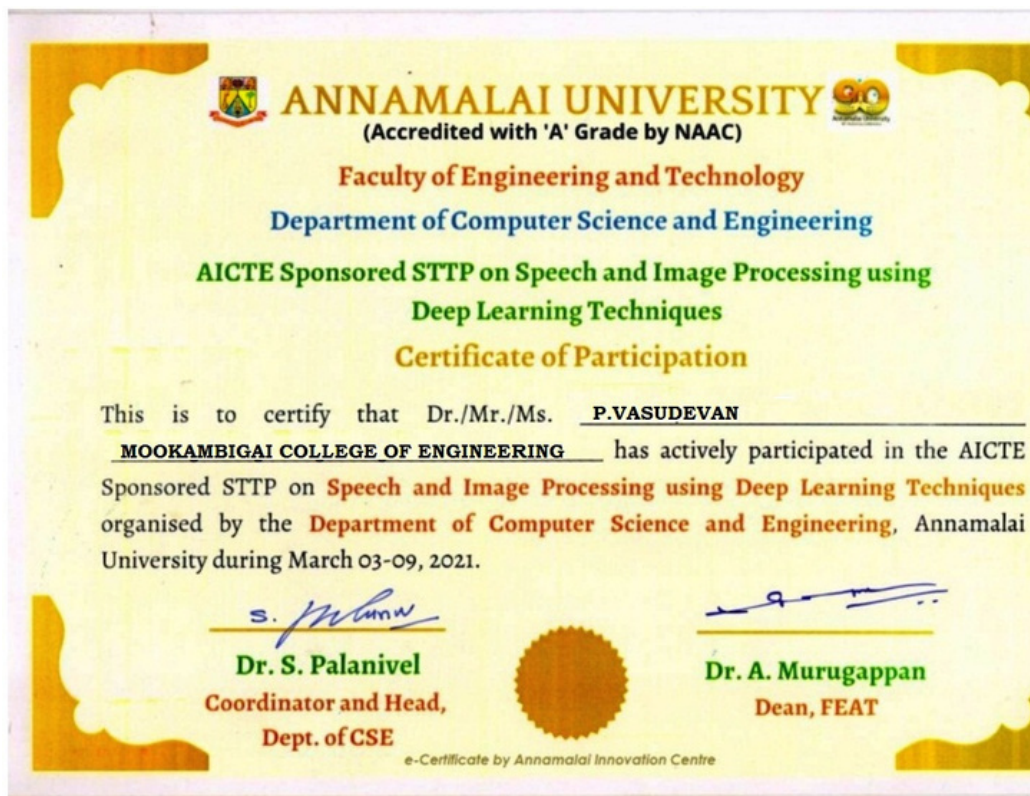
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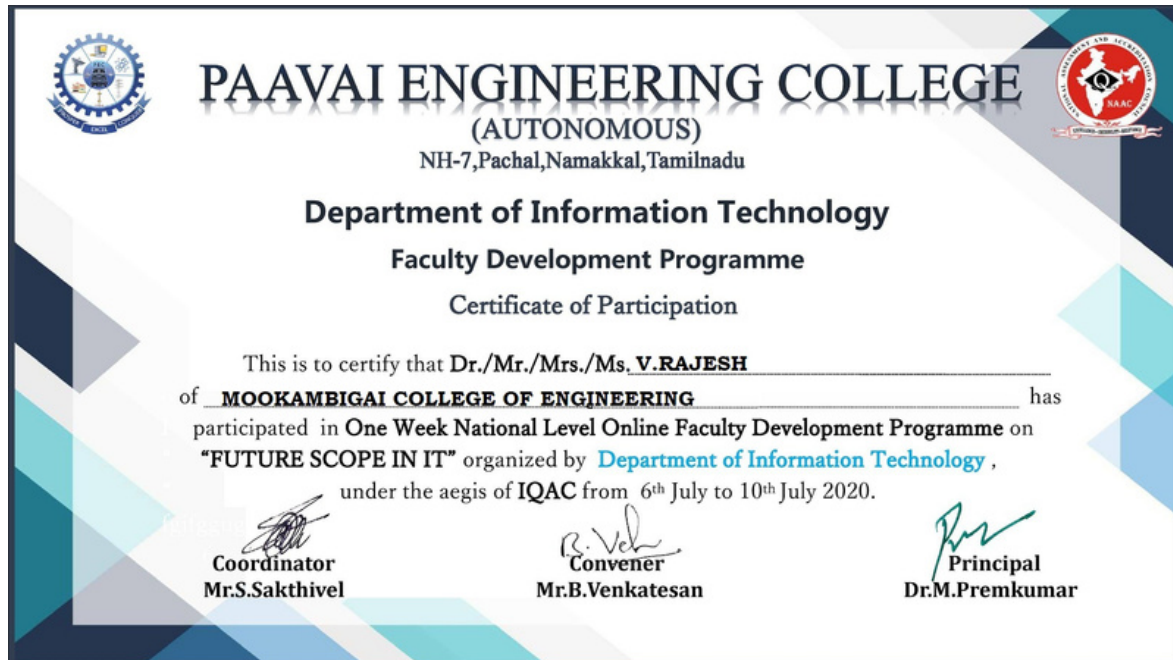
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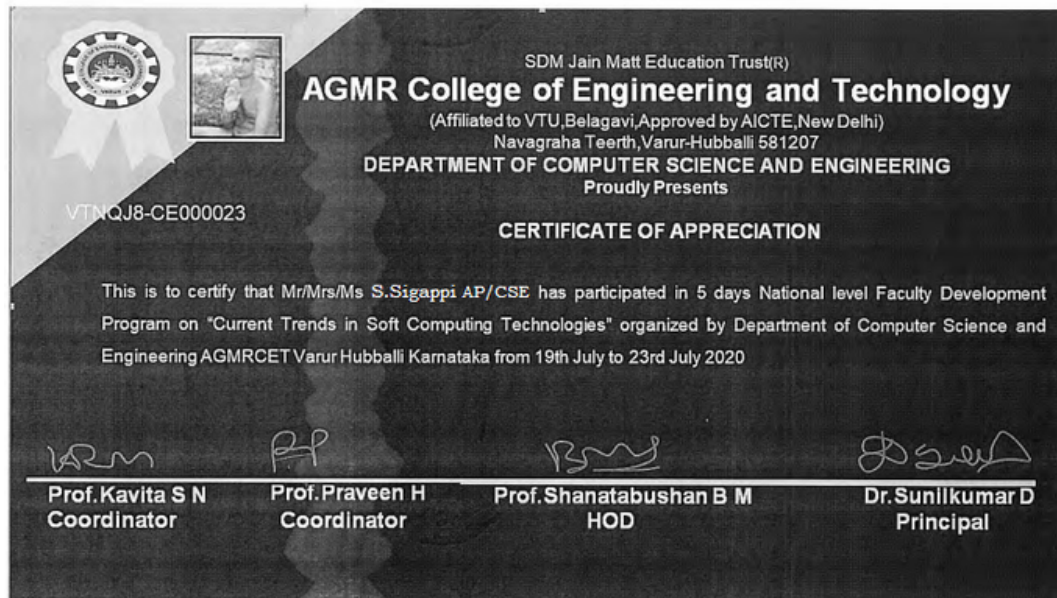
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JOURNAL PUBLICATION

Y.Suganya,DrSumathiGanesan,Dr.P.Valarmathi,
'Classification and Prediction of PCOD images
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R.Arunadevi,Y.Suganya, Dr.P.Valarmathi “
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274,DOI: 10. 12733 .JICS .2021 .V1113535569
.30045.,UGC – Care II Journal, March 2021

S.Anitha,Dr.P.Valarmathi, Y.Suganya,” Liver
CancerPrediction Using Segmentation and
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JOURNAL PUBLICATION

P.Vasudevan and K.P.Kaliyamurthie,
‘Sentiment Analysis of GreenProduct Using
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S.Anitha,Dr.P.Valarmathi, Y.Suganya,” Liver
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andClassification Techniques”, Pg.no.396-406,
DOI: 10 .12733 .JICS.2021 .V1113535569
.30045.,UGC – CareII Journal, March2021.

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