## Department of CSE

# CS Mail

### News Letter

*Volume 13: Issue I: February , 2024*

## News Headlines

- **Vision, Mission, PEOs and PSOs**
- **Message for Readers**
- **Congratulations to CSE for NBA Accreditation**
- **Faculties and students Publications/Conferences**
- **Toppers List**
- **Articles**

**Dear Readers,**

It is with great pleasure that we bring you Volume 13, Issue I of our department newsletter **"CS MAIL".** The current newsletter highlights the activities of the department, achievements of faculty and students during the past six months. It also features workshop organized and attended, paper publication details and other social activity undertaken from CS Department. Your valuable comments and suggestions are appreciated.

**We wish all the readers an enjoyable reading.**

## VISION OF THE DEPARTMENT

- To develop highly talented individuals in Computer Science and Engineering to deal with real world challenges in industry, education, research and society.

## MISSION OF THE DEPARTMENT

- To inculcate professional behavior, Strong ethical values, innovative research capabilities and leadership abilities in the young minds & to provide a teaching environment that emphasizes depth, originality and critical thinking.
- Motivate students to put their thoughts and ideas adoptable by industry or to pursue higher studies leading to research.

## PROGRAM EDUCATIONAL OBJECTIVES (PEO'S)

- Empower students with a strong basis in the mathematical, scientific and engineering fundamentals to solve computational problems and to prepare them for employment, higher learning and R&D.
- Exposure to emerging technologies and work in teams on interdisciplinary projects with effective communication skills and leadership qualities.
- Gain technical knowledge, skills and awareness of current technologies of computer science engineering and to develop an ability to design and provide novel engineering solutions for software/hardware problems through entrepreneurial skills.
- Ability to function ethically and responsibly in a rapidly changing environment by applying innovative ideas in the latest technology, to become effective professionals in Computer Science to bear a life-long career in related areas.

## PROGRAM SPECIFIC OUTCOMES (PSO'S)

- Ability to apply skills in the field of algorithms, database design, web design, cloud computing and data analytics.
- Apply knowledge in the field of computer networks for building network and internet based applications.

## Message From Principal

ATMECE has emerged as a prominent institute offering quality education. All round continuous changes in infrastructure and academics standard have helped us to build a brand name. It gives me immense pleasure to introduce the Volume 13, Issue I of the half yearly newsletter "CS MAIL" of Computer Science Department. I am pleased to know that the newsletter will showcase the activities and credentials of CS&E department. I hope this will become a platform for students and staff to exhibit their talents in science and technology. On behalf of management, I appreciate the newsletter committee for their efforts in bringing out this edition.

**I wish the editorial all success!!!**

**Regards,**

Dr L Basavaraj,
Principal, ATMECE

**Dr. Putte Gowda D**
Professor & Head

## Message From Chief Editor

Dr. Puttegowda D HoD, CS&E Department of Computer Science & Engineering commits to work towards developing dedicated professional with a rich blend of competent, technical, managerial and social skills to contribute nation building. I am happy to inform that our department newsletter "CS MAIL-volume 13 Issue I " is being released in the month of Feb 2024. The newsletter encourage departments technical activities and also motivate students to bring out their innovative ideas , hidden talents and also provide a common platform to share their knowledge, in turn gain technical knowledge.

**I wish all the readers an enjoyable reading!!!**

## Congratulations! to CSE

NBA Accreditation stands for National Board of Accreditation. It is a quality assurance process in India that evaluates and certifies engineering and technical programs to ensure they meet high educational standards. Dr. Puttegowda D, HOD, Computer Science and Engineering department, congratulates each and every teaching and non teaching staff for getting NBA accreditation for the year 2023-2026.

## Faculty and students Journals

| Sl. No | Title of the Paper | Author's Name | Journal Name | Volume | Issue | Date of Publication | Pg. No. | ISSN/ ISBN | Indexing |
|---|---|---|---|---|---|---|---|---|---|
| 1 | A Review On Cyber-Attack Detection Edge-Cloud Platform | Raghuram A S, J V Gorabal | Boletin de Literatura Oral | Vol. 10 | No.1 | Nov-23 | 1451-1459 | 2173-0695 | Scopus |
| 2 | Real time 3D object reconstruction using Multi-View Stereo (MVS) Networks | Mrs. Shruthiba, Prof. Deepu | EUROPEAN CHEMICAL BULLETIN | Vol. -12 | Issue-10 | Nov-23 | - | 2063-5346 | Scopus |
| 3 | Detection of Fake Profiles | Sushma V(Thejkumar), Shereen Eliza S, Rachana S, Manasa, Thejashwini N | IJIRCCE | Vol. -12 | Issue-5 | May-24 | 6215-6219 | 2320-9801 | Google Scholar, DOAJ,ScienceCentral |

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|---|---|---|---|---|---|---|---|---|---|
| 4 | Named Entity Recognition in Medical Field using NLP | Sushma V(Thejkumar), Aishwarya N, Moulya M L, Veena M G,Varun R | IJARIIE | Vol. - 10 | Issue-3 | May-24 | 2357-2364 | 2395-4396 | |
| 5 | Automated Architecture Design for Solar Irradiance Prediction | Sushma. V (Varadaraju), Amrutha, Likitha B, Yashwanth M, Akshay Gowda S | IJCRT | Vol. - 12 | Issue-5 | May-24 | 184-189 | 2320-2882 | Google Scholar |
| 6 | Drug Recommendadtion System Based on Sentiment Analysis of Drug Reviews Using Machine Learning | Shrilakshmi Prasad, Abhishek M, Arun Kumar N P, Dhanush Gowda G P,Dileep Kumar K | IJCRT | Vol. - 12 | Issue-5 | May-24 | 25-29 | 2320-2882 | |
| 7 | Home Automation and Security System | Kalathma M K, Kashifa Zehra, Mohammed Labeeb, Mohammed Safwan, Mohammed Zain | IJCRT | Vol. - 12 | Issue-5 | May-24 | 421-424 | 2320-2882 | Google Scholar |
| 8 | Real Time Smart Energy meter withAutomatic Bill generationusing IoT | Kalathma M K, Bavitha N K, Likith Abhishek K, Vazeer Ahmed Bandenawaj Attar, Monith M | IJCRT | Vol. - 12 | Issue-5 | May-24 | 233-237 | 2320-2882 | Google Scholar |
| 9 | Detection and Analysis of Autism Spectrum Disorder using Machine Learning | Kavyashree E D, Sathwik K, Syed Tayeeb, Syeda Afra, Tejas B V | IJIRCCE | Vol. - 12 | Issue-5 | May-24 | 6117-6121 | 2320-9801 | Google Scholar, DOAJ,ScienceCentral |
| 10 | Iot Based Accident Detection And Reporting (RAD) System | Roopa B, Akash D S, Sangeetha T V, Shreeraksha A, Yashaswini B | International Journal of Current Science (IJCSPUB) | Vol. - 14 | Issue-2 | May-24 | 31-37 | 2250-1770 | Google Scholar |

# Faculty and students conferences

| Sl. No. | Title of the Paper | Author's Name | Conference Name | Venue | Publisher | Date of conference | Pg. No. | ISBN/ ISSN | Indexing |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Artificial Intelligence with Internet of Things: Powerful Combination in Realtime | Kavyashree E D, Dr Puttegowda D | ICRTST-2023 | ATME College of Engineering | Tuijin Jishu/Journal of Propulsion Technology | 18th & 19th October | 2001 - 2005 | 1001-4055 | scopus |
| 2 | Enhancing Fake Face Detection using Leveraging Hierarchical Attention Memory Networks for Robust Authentication | Kiran B, Dr. Nasreen Fathima, Kavya P O, Anil D, Prajwal Hegde N and Dileep Kumar M J | ICRTST-2023 | ATME College of Engineering | Semiconductor Optoelectronics | 18th & 19th October | 648-655 | 1001-5868 | scopus |
| 3 | Smart Traffic Control and Management System using Machine Learning Techniques | Shreeshayana R , L. Lakshmaiah, Kavya P O and Anil D | ICRTST-2023 | ATME College of Engineering | Tuijin Jishu/Journal of Propulsion Technology | 18th & 19th October | 1889 - 1896 | 1001-4055 | scopus |
| 4 | Performance Analysis of Color K-Means and Range Filter for Text Detection in Images or Video, Blockchain-Enabled IoT: Ensuring Data Integrity in a Connected World | Dayananda K J, Dr. Puttegowda D | ICRTST-2023 | ATME College of Engineering | Tuijin Jishu/Journal of Propulsion Technology | 18th & 19th October | 1931 - 1935 | 1001-4055 | scopus |
| 5 | A Complete Study on Cloud Virtual Machine for Data Analyses | Poojitha G S and Dr.puttegowda D | ICRTST-2023 | ATME College of Engineering | Tuijin Jishu/Journal of Propulsion Technology | 18th & 19th October | 1941 - 1944 | 1001-4055 | scopus |
| 6 | Survey on Blind-Spot Detection Systems for Improved Vehicle Safety | M S Sunitha Pate, Lakshmi Durga | ICRTST-2023 | ATME College of Engineering | Tuijin Jishu/Journal of Propulsion Technology | 18th & 19th October | 2005 - 2011 | 1001-4055 | scopus |
| 7 | IMPLEMENTATION OF PLANT DISEASE DETECTION USING CNN ALGORITHM | Mrs Keerthana M M, Mrs Hamsa A S | ICRTST-2023 | ATME College of Engineering | Tuijin Jishu/Journal of Propulsion Technology | 18th & 19th October | 1878 - 1888 | 1001-4055 | scopus |

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| 8 | Handwriting Style based Personality Classification using Cognitive Learning | Lakshmi Durga, M S Sunitha Patel, Deepu R | ICRTST-2023 | ATME College of Engineering | Tuijin Jishu/Journal of Propulsion Technology | 18th & 19th October | 1631 - 1639 | 1001-4055 | scopus |
| 9 | Prognosis of Cardiovascular Disease using Machine Learning Approach | Mrs Hamsa A S , Mrs Keerthana M M | ICRTST-2023 | ATME College of Engineering | Tuijin Jishu/Journal of Propulsion Technology | 18th & 19th October | 1878 - 1888 | 1001-4055 | scopus |
| 10 | Neurodegenerative Diseases classified based on Salient Brain Patterns | Sushma V(Thejkumar) | ICRTST-2023 | ATME College of Engineering | Tuijin Jishu/Journal of Propulsion Technology | 18th & 19th October | 1936 - 1940 | 1001-4055 | scopus |
| 11 | Blockchain-Enabled IoT: Ensuring Data Integrity in a Connected World | Ajay Kumar B R Dr Puttegowda D | ICRTST-2023 | ATME College of Engineering | Tuijin Jishu/Journal of Propulsion Technology | 18th & 19th October | 1993 - 2000 | 1001-4055 | scopus |
| 12 | "Heart Attack Risk Prediction Using Retinal Eye Images Based On Machine Learning And Image Processing" | Mrs. Sushma V, Sindhu K U, Sonupriya | ICRTST-2023 | ATME College of Engineering | Tuijin Jishu/Journal of Propulsion Technology | 18th & 19th October | 2027 - 2031 | 1001-4055 | scopus |
| 13 | IoT-Based Waste Segregator for Smart Cities | Roopa B, Nischitha GD, Pranam KU, Shreyas KC, Tanishka V | 7th National Conference on Emerging Trends in Engineering, Science and Technology | Bangalore - Hybrid mode | NCETEST - 24 | April 30, 2024 | 9 | 978-81-972530-3-4 | Google Scholar |

# Toppers List

## 4th Semester

| NAME | USN | SGPA | CGPA |
|---|---|---|---|
| M K Dechamma | 4AD21CS044 | 9.77 | 9:30 |
| Rachana N A | 4AD21CS074 | 9.59 | 9.29 |

## 6th Semester

| NAME | USN | SGPA | CGPA |
|---|---|---|---|
| Lakshmi C | 4AD20CS034 | 9.58 | 9.06 |
| Varsha G R | 4AD20CS101 | 9.29 | 8.74 |

## 8th Semester

| NAME | USN | SGPA | CGPA |
|---|---|---|---|
| Mohammed Raihan | 4AD19CS043 | 10.00 | 9.23 |
| Mithilesh A | 4AD19CS041 | 9.94 | 8.39 |
| Anirudh Nitin Bakare | 4AD19CS007 | 9.83 | 9.45 |
| Kishore K | 4AD19CS029 | 9.83 | 9.07 |
| Younus Khan | 4AD19CS105 | 9.83 | 9.20 |

# ARTICLES

## GOOGLE


Google has become an integral part of our daily life. Without it, we cannot even imagine a single step in our everyday life. From a small thing to a big thing, we search in Google to get our desired information. It has become an integral part of our daily life than we could ever imagine. Google now a days is not less than an encyclopedia that offers information or knowledge on everything we need , and everyone is familiar to the popular phrase **'Google it'.**

In today's digital age, it's no exaggeration to say that Google, the multinational tech giant, plays an important role in the daily lives of people worldwide. From the moment we wake up and check our emails on Gmail to the late-night searches on Google Search, Google's influence is omnipresent. This article explores how Google exerts control over a person's life through its various products and services.

Google's ecosystem includes a wide array of services, such as Google Search, Gmail, YouTube, Google Maps, Google Docs, and Android, among others. These services are woven into the fabric of our digital existence, making it difficult to escape their influence. Here's how Google's dominance becomes evident in everyday life:

**1. Search Engine Supremacy:**
Google Search is the most popular search engine, processing billions of queries every day. As a result, it shapes the way we discover information, influence our opinions, and make decisions. The search results we see are tailored to our preferences.

**2. Email and Communication:**
Gmail, with over 1.5 billion users, is the dominant email service. It scans the content of emails to serve personalized ads, raising concerns about privacy. Google Hangouts and Google Meet are also used for communication, making Google an integral part of our daily interactions.

**3. Video Dominance**
YouTube, owned by Google, is the world's largest video-sharing platform. It influences entertainment, education, and news consumption, with its algorithm often favoring click bait and polarizing content to keep users engaged.

**4. Location Tracking:**
Google Maps and Waze have become indispensable tools for navigation. However, they collect extensive data on users' locations, movements, and habits, raising privacy concerns.

**5. Smartphone Dominance:**
Android, Google's mobile operating system, powers over 72% of the world's smart phones. This ensures Google's presence in the pocket of nearly every Smartphone user, collecting data and personal information.

In conclusion, Google has become an indispensable part of our lives, simplifying tasks and providing quick answers. However, this dependency raises concerns about privacy and stifling critical thinking, emphasizing the need for a balanced approach to our digital reliance.

Short Article on GOOGLE is our life
By

Rakshitha B S, 3rd sem 'B',
Computer Science and Engineering
Department,ATMECE.

## Power of 5G

# Unleashing the Power of 5G Technology

*"In the ever-evolving landscape of technology, the advent of 5G has emerged as a game-changer, propelling us into a new era of connectivity."*


### SPEED AND BANDWIDTH

At the core of 5G's transformative capabilities lies its unprecedented speed and bandwidth. Unlike its predecessor, 4G, which primarily focused on enhancing mobile broadband, 5G takes a giant leap forward by providing ultra-fast data speeds. With download speeds reaching up to 10 gigabits per second, streaming high-definition content, engaging in immersive augmented reality (AR) experiences, and enjoying seamless gaming are now a reality.

### CONCLUSION

The speed, low latency, and massive connectivity offered by 5G have not only enhanced our digital experiences but have also paved the way for innovations that were once relegated to the realm of science fiction. As we celebrate this milestone, it's crucial to anticipate the continued evolution of 5G and its far-reaching impact on the way we live, work, and connect in the years to come.

5G acts as the catalyst for the Internet of Things revolution, enabling the seamless connectivity of an unprecedented number of devices. The massive capacity of 5G networks allows for the simultaneous connection of a myriad of IoT devices, ranging from smart home appliances to industrial sensors. This interconnected ecosystem not only enhances our daily lives but also revolutionizes industries through improved efficiency, predictive maintenance, and data-driven decision-making.

### AUGMENTED AND VIRTUAL REALITY

The combination of 5G's high speeds and low latency has unlocked the full potential of AR and VR technologies. From immersive gaming experiences to virtual meetings and training simulations, the applications are limitless. 5G's capacity to deliver high-quality, low-latency content transforms the way we interact with digital environments, offering a glimpse into a future where virtual and physical realities seamlessly merge.

**Pooja Hebbar., 5th semester CSE, ATMECE**

## The Future of AI

# THE FUTURE OF AI

## " TRANSFORMING INDUSTRIES AND ACCELERATING HUMAN LIFE "

### A BRIEF HISTORY

The impact of artificial intelligence (AI)on society has been significant and transformative over the past few decades. What was once a concept confined to science fiction has nowbecome a reality, with AI technologies permeating various aspects of our lives. As we look towards the future, itis evident that AI will continue to shape our world in unprecedented ways.

### THE NEXT FIVE YEARS

As we look ahead, the next five years hold tremendous potential for AI tobring about major societal changes that go beyond what we have witnessed thus far. These changes willbe driven by advancements in AI technology and its integration into various industries and institutions. The integration of AI robotics, increased focus on ethics and regulations, and rise of explainable AI are anticipated. Edge Computing, AI in cybersecurity, and climate change solutions may see significant developments, and AI's role in transforming education is expected to expand.

### SPEED OF LIFE

One of the most noticeable changes in society will be the increased tempo of engagements with large institutions. Organizations, be it businesses, government units, or nonprofits, will incorporate AI into their decision- making processes and public-facingactivities. This integration will enable these entities to make decisions more quickly, ultimately resulting in a faster pace of life for individuals.

### EDUCATION

AI has the potential to transform education at all levels. Students can receive tailored educational content and training based on their individual needs. AI algorithms can identify optimal educational strategies, taking intoaccount students' learning styles. By 2028, the education system could undergo a radical transformation, providing personalized learning experiences for every student.

### CONCLUSION

The future of AI holds immense potential and promises to transform industries, accelerate human life, and present unique challenges. As society adapts to the increasing integration of AI, managing ethical considerations, navigating regulatory frameworks, and embracing human-AI teaming will be critical. Industries such as education, healthcare, finance, law, and transportation are at the forefront of AI transformation, paving the way for a future where AI becomes an integral part of everyday life.

**Mrs.Sushma V,**
**Assistant professor,**
**CSE,ATMECE**