



CS MAIL

NEWSLETTER VOLUME 8, ISSUE II, AUG 2020

Dear Readers,

It is with great pleasure that we bring you **Volume 8, Issue II** 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.

- 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.
- Exposure to emerging technologies and work in teams on interdisciplinary projects with effective communication skills and leadership qualities.
- 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 8, Issue II 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**

DON'T WAIT FOR OPPORTUNITY CREATE IT

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”** is being released in the month of Aug 2020. 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!!!

EDITORIAL TEAM

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Dr L Basavaraj
Prinicpal, ATMECE

Chief Editor
Dr Puttegowda D
HOD, CS&E

Editor
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Assistant Professor,
CS& E.

Student Cordinators
Varshini R
Prajwal Raj G

A DREAM BECOMES A GOAL WHEN ACTION IS TAKEN TOWARD ITS ACHIEVEMENT

DEPARTMENT ACTIVITIES

“Interview Skills Training”

Department of Computer Science and Engineering organized a **one day Technical Talk on "Interview Skills Training"** on Feb 18th 2020 for 6th and 8th semester students. The resource person was Nithin Neelakanta Rao, Training Consultant, Outstanding 20, Mysuru



“Webinar on Latest Technologies”

Department of Computer Science & Engineering had organized Three days webinar on “Latest Technologies” from 9th July to 11th July 2020 virtually for faculties and students. Eminent speakers from various institutions were invited as resource persons.

Resource persons and topic delivered day wise are listed below.

<p>Day 1 (09-07-2020)</p>  <p>Dr. Gururaj K.S., Associate Professor, Dept. of CSE, GSSSIETW, Mysuru Topic: Introduction to Cloud Platforms</p>	<p>Day 2 (10-07-2020)</p>  <p>Dr. Andhe Dharani, Professor and Director, R.V. College of Engineering, Bengaluru Topic: Data to Big Data & Decision Making using Machine Learning</p>	<p>Day 3 (11-07-2020)</p>  <p>Ms. Nagalakshmi T.S., Assistant Professor, Dept. of EIE, GSSSIETW, Mysuru Topic: Introduction to Artificial Intelligence & its Tools</p>
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Day-1

Resource person: Dr. Gururaj K S, Associate Professor, Dept. of CSE, GSSSIETW, Mysuru

Topic Delivered: An Introduction to Cloud Computing Platforms

“An Introduction to Cloud Computing Platforms”

Dr. GURURAJ K S
Associate Professor, Dept. of CSE, GSSSIETW, Mysuru

|| 09th July 2020 ||

Day 2

Resource person:Dr.AndheDharani, Professor and Director, R.V. College of Engineering, Bengaluru.

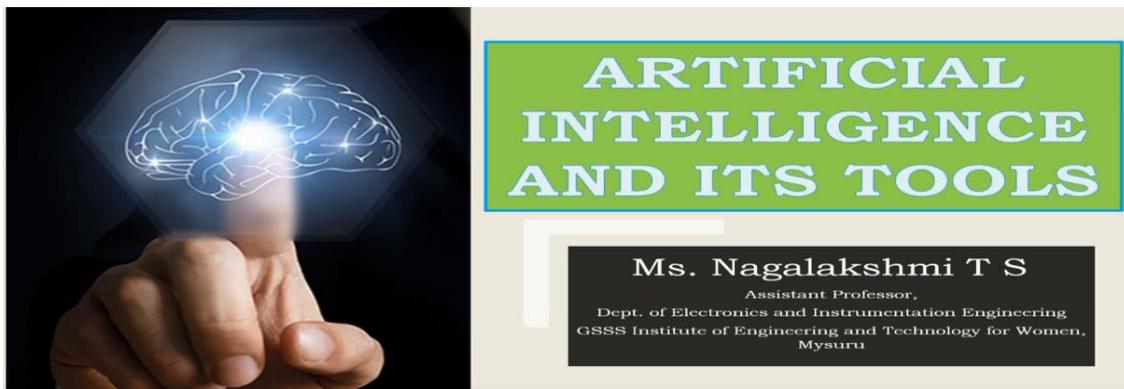
Topic Delivered:Data to Big Data and Decision Making using Machine Learning.



Day-3

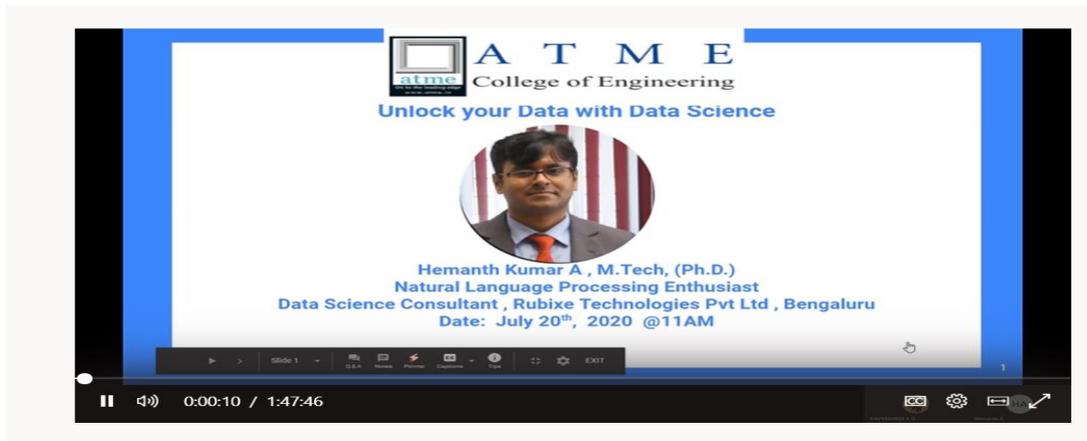
Resource person:Ms.Nagalashmi T.S, Assistant Professor, Dept. of CSE, GSSSIETW, Mysuru.

Topic Delivered:AnIntroduction to Artificial Intelligence and its Tools.



“Webinar on Unlock your data with data”

Department of Computer Science and Engineering of ATME College of Engineering, Mysuru organized a Webinar on **“Unlock Your data with Data** on 20th July 2020 from 11:00 A. M to 1:00 P.M under CSI Student Branch. Hemanth Kumar A, Data Science Consultant, Rubixe Technologies Pvt Ltd, Bangalore was the resource person.



“Smart India Hackathon 2020”

Smart India Hackathon is a nationwide initiative to provide students with a platform to solve some of the pressing problems we face in our daily lives, and thus inculcate a culture of product innovation and a mind-set of problem-solving. It is a non-stop 36 hour product development.

SIX teams from the department of Computer Science and Engineering had submitted solutions for the problem statements in SIH 2020. One team got shortlisted for national grand finale.

Faculty Name (Mentor)	Student name	Award
Mrs.NasreenFathima Assistant Professor, Department of CSE, ATMECE, Mysuru.	SamuraMariyam K A	Shortlisted for grand finale 2020
	Syed AbdurRahaman	
	Syed Asif	
	Usha M T	
	R AnuKanthan	
	T N SinchanMuthamma	

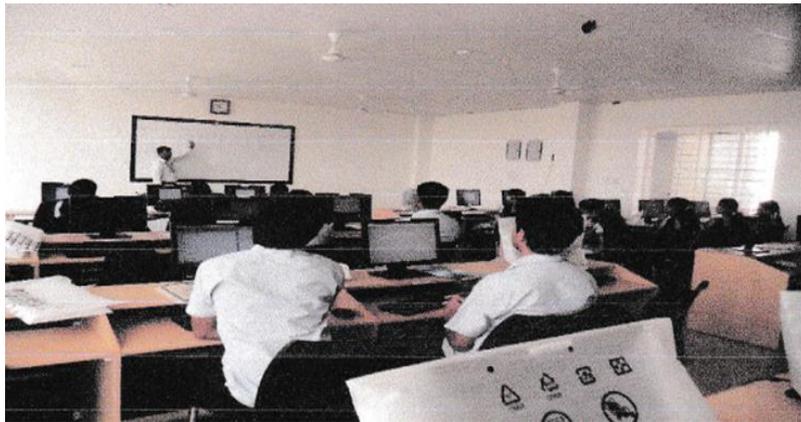


“WORKSHOP ON BASICS OF OBJECT ORIENTED PROGRAMMING USING C++”

Department of Computer Science and Engineering, ATME College of Engineering, Mysore organized Three Day Workshop on Basics of Object Oriented Programming using C++ for IV Sem Students from 10th February 2020 to 12th February 2020. The resource person was Sneha N P, Asst. Prof. Dept. of CSE, ATMECE, Mysuru.

“TECHNICAL TALK ON AR AND VR TECHNOLOGIES”

A Seminar has been conducted on AR and VR Technologies for third year students from 18th Feb 2020 at ATMECE, Mysuru. It was conducted in the Department of Computer Science and Engineering at ATME College of Engineering, Mysuru.



FACULTY PARTICIPATION

CONFERENCES/ JOURNALS

1. Dr. Puttegowda D **“Performance Analysis of Color K-Means and Range Filter for Text Detection in Images or Video”**, International Conference on Recent Trends in Science and Technology(ICRTST-2020) June 17 &18.
2. Mr Anilkumar B H, Mrs Keerthana M M ,**“Study On Rip And EIGRP Routing Protocols And Configuration”**, International Conference on Recent Trends in Science and Technology(ICRTST-2020) June 17 &18.
3. Mr Anil Kumar B H, Mrs Kavyashree E D, **“Study On Network Simulation Using Cisco Packet Tracer”**, International Conference on Recent Trends in Science and Technology(ICRTST-2020) June 17 &18.
4. Mrs Kavyashree E D, **“Big Data Analytics - Tools, Challenges, Applications, Future Scope”**, International Conference on Recent Trends in Science and Technology(ICRTST-2020) June 17 &18
5. Mr.Anil Kumar C J, **“An Experimental Study on Comparison of Credit Scoring Models”**., International Conference on Recent Trends in Science and Technology(ICRTST-2020) June 17 &18.
6. ImpanaAppaji, Dr. Raviraj P **“Vehicular Monitoring Using RFID”** The International Conference on Automation, Signal Processing, Instrumentation and Control (iCASIC 2020) Vellore Institute of Technology Vellore, Tamilnadu , Springer Feb 2020.
7. M S Sunitha Patel, **“Soft Computing Approaches for Automotive Image Processing Opportunities & Challenges”**, International Conference on Recent Trends in Science and Technology(ICRTST-2020) June 17 &18.
8. M S Sunitha Patel, **Dr Srinath S, “An Insight into Feature Extraction Algorithms for vehicle Platoon Management”**, International Conference on Recent Trends in Science and Technology(ICRTST-2020) June 17 &18.
9. Mohanesh B M , **“Newton’s Gregory Interpolation Principle to Identify & Predict The Unknown Values from ItemSet data of the SuperMaket”**, International Conference on Recent Trends in Science and Technology(ICRTST-2020) June 17 &18.
10. Nasreen Fathima ,Reshma Banu,” **An Insight of Existing Research Approaches towards securing IOT Communication System”**,International Journal of Innovative Technology & Exploring Engineering,Feb -2020.
11. HameedaBanu, Thamitha, Pooja,Varsha J, Mrs Kavyashree E D, **“Survey on Blockchain Technology - Merits, Demerits and Its Applications”**, International Conference on Recent Trends in Science and Technology(ICRTST-2020) June 17 &18.

12. Mohamed Naumaan, ShaziaBaig,Sheeban E Tamanna, Sharvanu N Pande, Mrs Sushma V,” **Recognition Of Alzheimer’s Disease Using MRI Scans By Artificial Neural Network**”, International Conference on Recent Trends in Science and Technology(ICRTST-2020) June 17 &18.
13. Sandya G B, Supreeth H,Thejas D, Vivechan B, DrPuttegowda D, ”**Object Detection Through Symbiotic Deep Learning: Detection and Recognition on Resource Constrained Device**”, International Conference on Recent Trends in Science and Technology(ICRTST-2020) June 17 &18.
14. ArpithaS,NavyaS,Sudha M P, Vaishnavi C S, MrsImpanaAppaji, “**A study on Learning Spatial and Temporal Extents of Human Actions for Action Detection**”, International Conference on Recent Trends in Science and Technology(ICRTST-2020) June 17 &18.
15. Nasreen Fathima ,Reshma Banu,” **Framework for Secure Transmission between Communicating Nodes with the Internet Host in IOT**”,International Journal of Disaster Recovery and Business Continuity(IJDRBC),May -2020.
16. Dr Puttegowda D, Sayeda Umera Almas,”**Ocean Coefficient: A feature Extraction technique for Five factor Model Based Classifications**”, International Journal of Engineering and Advanced Technology(IJEAT),April 2020.
17. Dr Puttegowda D, Sayeda Umera Almas,”**Five Factor Model of Personality trait Analysis on Twitter Data Using Benchmark Classifier**”, International Journal of Innovative Technology and Exploring Engineering(IJITEE),April 2020.
18. Raghuram A S ,Kiran B,” **A Survey on Different Vehicle Driver Drowsiness Detection System**”, International Journal of Innovative Research in Computer and Communication Engineering,May 2020.

TECHNICAL ARTICLES

“TOP 5 TRENDING TECHNOLOGIES TO MASTER IN 2020”

Technology is constantly updating at such a rapid pace that it seems it might be faster than light! A technology or a programming language that is making the rounds this week may be obsolete by the next few days! As more and more funds are invested in research and development, computer scientists and professionals are constantly tweaking and improving existing technologies to get the most out of them. I have listed the top 5 trending technologies, which are expected to acquire a huge market in 2020.

1. Data Science.
2. Robotic Process Automation (RPA)
3. Virtual Reality.
4. Edge Computing.
5. Intelligent apps

1) DATA SCIENCE

- Data Science is the technology that helps to make sense of complicated data. You know that data is produced in a humungous amount every day by companies. This includes business data, sales data, customer profile information, server data, and financial figures.
- Most of this data is in the form of huge data sets that are unstructured. The role of data scientists is to convert these unstructured data sets into structured datasets. Then, these data sets can be analyzed to identify patterns and trends. These patterns are useful for understanding the company's business performance, customer retention, and how these areas can be improved.

2) ROBOTIC PROCESS AUTOMATION

- Robotic Process Automation (RPA) is a technology used for automating daily tasks, similar to artificial intelligence. Here, the software is used for automating repetitive tasks such as handling and replying to emails, processing transactions, and handling business data.
- This technology is used for automating tasks for low-level employees to higher-ranking officials. RPA can automate more than 40% of daily tasks. According to McKinsey, more than 60% of all repetitive tasks can be partially automated using RPA. So, this technology is going to threaten a lot of jobs.
- On the other hand, this latest technology will also create many job opportunities in the automation sector.

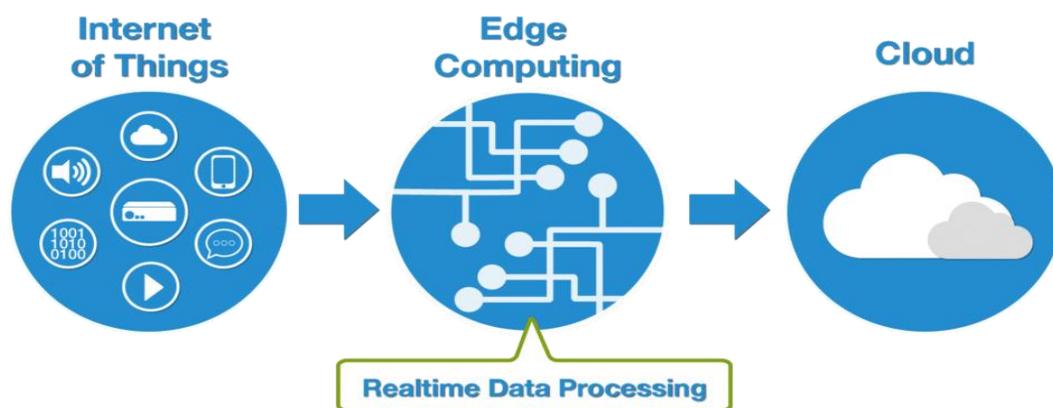
3) VIRTUAL REALITY

- VR is the technology by which you can immerse yourself in an environment that seems astonishingly realistic. It is the use of computer technology for creating a simulated environment. It is very popularly used for playing computer games.

- The VR technology is not only used for entertainment, but it is also used by the U.S. Navy and Coast Guard for training staff. They use a VR game called VirtualShip. AR and VR are used by doctors while performing surgery. Visitors in an amusement park or a museum can also use the technology to enhance their experience.

4) EDGE COMPUTING

- Edge computing is the latest technology trend that is getting famous by the day. The technology is based on the philosophy of bringing computing power as close to the data source. This helps in reducing bandwidth and latency.
- The technology aims to run fewer processes in the cloud and shifting those processes to locations such as the user's system or an edge server. Bridging this gap between the data and the computation reduces the long-distance communication between the server and the client, which in turn enhances the speed of the process. This is why edge computing is used for handling time-sensitive data stored in remote locations that have limited connectivity to the central location. The technology will make cloud computing and IoT devices faster.



5) INTELLIGENT APPS

- Intelligent apps are software applications that make use of AI components such as machine learning, deep learning, data analytics, robotics, and natural language processing. They help you in making decisions based on real-time data or historical data.
- Examples of Intelligent apps are voice assistants such as Siri, Google Assistant, and Alexa. As companies such as Google, Apple, and Oracle continue investing in these applications, it is bound to create a lot of jobs in the future.

THINK PEACE AND LIVE GREEN...



“MAKE EVERY DROP OF WATER COUNT”

Dear Readers,

Your advice or suggestions will be much appreciated and are most welcome!!!
Please mail your articles to csdept@atme.in

BE WILLING TO BE A BEGINNER EVERY SINGLE MORNING