



DEPARTMENT OF CSE(AI&ML)
AI INSIGHTS

VOL. 1 | ISSUE 2 | JULY - 2022



NEWSLETTER

Message from Chairman's Desk



Sri C. Gopal Reddy
Chairman

It is rightly said by our Bharat Ratna, Dr. APJ Abdul Kalam **“Dream is not that which you see while sleeping, it is something that does not let you sleep.”** Yes!!! Indeed, it was my dream, goal and ambition, to establish a Knowledge Center, a Temple of learning, i.e., “CMR Group of Institutions”, which can be witnessed today on sprawling area of 70 acres on Medchal Road, Hyderabad. Currently under CMR Group of Institutions, which was established in the year 2002, have 04 Engineering Colleges and 01 Pharmacy College with over 16000 students studying in various streams of Engineering, Management and Pharmacy. The thirst for Excellence & Service has never subdued among us, thus we wish to make deeper inroads in the field of education by venturing into university, named “CMR Global University”, which will be seeing the light of day soon.

As it is said, Rome is not built in a day; CMR is also not built in a day. 20 years of dedication, commitment and hard work has resulted in CMR Group of Institutions. One of the strength of CMRGI is its strong Alumni. Till date, CMRGI has successfully produced over 18000 Engineers and 4500 Managers and 1200 Pharmacists. As the Tagline of the Group goes, **“Think Placements, Think CMR”**, we have been the pioneers in training and placing the students in many reputed companies with good packages. I feel proud to see my students’ donning prominent roles in many of the reputed companies.

Message from Secretary's Desk



Smt. C. Vasantha Latha
Secretary

As narrated by Swami Vivekananda, **“We want the education by which character is formed, the strength of mind is increased, the intellect is expanded, and by which one can stand on one’s own feet”**, we at CMR Technical Campus, believe quality education has the power to transform not only individuals but societies and the nation in large.

Our endeavor at CMRTC is to provide the right blend of education and all such necessary components which make students stay in the campus fruitful. The existence of various associations and Clubs, Departmental Associations, Professional Chapters in the campus ensure all-round development which an individual requires. Being in the field of Education for more than a decade, I strongly feel, **Education is the key for women to achieve economic independence**. CMRTC strongly supports women’s education and all such measures for their safety are taken care by our well functional Women Empowerment Cell of the institute.

TECHNICAL CAMPUS

About Director



Dr. A. Raji Reddy
Professor & Director

Dr. A. Raji Reddy, is a **1990 Batch Mechanical Engineer** from Nagpur University. He obtained his '**Masters' Degree** from **Regional Engineering College [NIT] Warangal** in the year 1992 and Doctoral degree from **Osmania University in Mechanical Engineering** with Solar Energy as specialization in the year 2008.

In his **28 years of service**, he has served in various capacities of administration, research, and academic roles. He even has two years of **Industrial experiences in M/s. Ashok LeyLand Ltd.,** (Ductron Casting Unit), Uppal, Hyderabad.

Currently he has **10 Patents filed** on his name and is Investigator of **03 Research Projects** to the tune of **Rs. 90 Lakhs Grant** from Govt. of India. He has successfully guided **10 M.Tech. Projects** and is currently guiding **03 Research Scholars** for their Ph.D. His research areas include solar thermal applications, Biomass conversion technologies, solar cooking and Heat transfer. There are over **40 Research Articles** to his credit in peer reviewed & reputed Journals & Conferences. He is reviewer of few Elsevier published Journals.

Recognitions and awards have been part of his career, which highlights the dedication and commitment he has laid down in fulfilling the responsibilities assigned to him. He is entitled as life member of Indian Society for Technical Education, Solar Energy Society of India and International Solar Energy Society of India. It was indeed a venue to receive **an award from Deputy Chief Minister of Telangana** for effective leadership qualities in 2018. Received **Acharya Ratna Award** from Indian Servers in the year 2019.

About Head of the Department



Dr. S Rao Chintalapudi

Professor & HOD CSE (AI & ML)

Dr. S Rao Chintalapudi currently working as a Professor and Heading the department of CSE(Artificial Intelligence & Machine Learning). He received B.Tech degree from JNTU Hyderabad, M.Tech degree from JNTU Kakinada. He did his Ph.D – Full Time in Data Mining from JNTUK Kakinada under the guidance of Dr. M. H. M Krishna Prasad. His research areas are Data Mining, Social Network Analysis, Machine Learning, Deep Learning, Big Data Analytics and High Performance Computing. Presently, he is guiding one Ph.D scholar in the area of machine learning in e-commerce under JNTUK Kakinada.

He is having over **12 Years of teaching experience**. He published **17 publications** in international indexed journals, Conferences and Book chapters. He is a member of Board of Studies in JNTUK Kakinada, BVC Engineering College Odalarevu, Ideal institute of Arts and Sciences Kakinada.

He received a grant of **32 lakhs** from the Department of Science & Technology (DST) as a Principal Investigator. He applied for **2 patents** in the area of machine learning. Previously, he worked as a Head of AI and Deep Learning Research Group under leadingindia.ai project. He acted as a resource person for various workshops, FDPs and STTPs in institutes like MIT Manipal, CET Bhubaneshwar, MIT Pune. He organized several guest lectures, workshops, FDPs in the areas like Big Data Analytics, High Performance Computing, Artificial Intelligence and Deep Learning.

His teams selected for Smart India Hackathon Grand Finale three consecutive years i.e., 2018, 2019, 2020. He is a reviewer for several prominent journals like IEEE Transactions on Knowledge and Data Engineering, Springer-International Journal of Information Technology, Taylor & Francis- Journal of Experimental & Theoretical Artificial Intelligence and so on. He is a member of several professional bodies like IEEE, ACM, CSI, IAENG and so on. He was completed several online certification courses provided by Coursera, NPTEL such as Mining Massive Datasets, Social Networks, Introduction to Machine Learning, Deep Learning, Fundamentals of Deep Learning for Computer Vision and so on. He received Topper certificate for the course “**Introduction to Machine Learning**” offered by NPTEL. He received Elite Academician award from AICTE, DST and Texas Instruments. He qualified in several competitive exams like GATE, APSET, FET. He received merit award in B.Tech for his Academic Excellence.

Department of CSE [AI&ML]

Vision of Department:

To excel in Artificial Intelligence and Machine Learning education and research to develop ethical AI solutions for societal and industrial advancement.

Mission of Department:

- To provide a state-of-the-art learning environment to develop AI&ML expertise for solving real-world problems.
- To promote industry-oriented research and innovation while upholding ethical and professional values.
- To cultivate lifelong learning, teamwork and leadership skills for global technological challenges.

Program Educational Objectives (PEOs):

PEO 1 - Graduates will have the ability to solve real-world problems using Artificial Intelligence and Machine Learning.

PEO 2 - Graduates will have the ability to pursue research and higher education in AI domain.

PEO 3 - Graduates will become ethically driven leaders and entrepreneurs in the field of Artificial Intelligence.

Program Specific Outcomes (PSOs):

PSO 1 - Apply the principles and conduct investigations in Artificial Intelligence and Machine Learning for sustainable development. .

PSO 2 - Design and develop intelligent solutions using AI technologies.

PSO 3 - Adopt lifelong learning and continuous improvement in ethical and responsible AI solutions.

Program Outcomes (POs)

PO 1: Engineering Knowledge: Apply knowledge of mathematics, natural science computing, engineering fundamentals and an engineering specialization to develop to the solution of complex engineering problems.

PO 2: Problem Analysis: Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions with consideration for sustainable development.

PO 3: Design/Development of Solutions: Design creative solutions for complex engineering problems and design/develop systems/components/processes to meet identified needs with consideration for the public health and safety, whole-life cost, net zero carbon, culture, society and environment as required.

PO 4: Conduct Investigations of Complex Problems: Conduct investigations of complex engineering problems using research-based knowledge including design of experiments, modelling, analysis & interpretation of data to provide valid conclusions.

PO 5: Engineering Tool Usage: Create, select and apply appropriate techniques, resources and modern engineering & IT tools, including prediction and modelling recognizing their limitations to solve complex engineering problems.

PO 6: The Engineer and The Society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO 7: Environment and Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO 8: Ethics: Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national & international laws.

PO 9: Individual and Collaborative Team work: Function effectively as an individual, and as a member or leader in diverse/multi-disciplinary teams.

PO 10: Communication: Communicate effectively and inclusively within the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations considering cultural, language, and learning Differences.

PO 11: Project Management and Finance: Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.

PO 12: Life-Long Learning: Recognize the need for, and have the preparation and ability for i) independent and life-long learning ii) adaptability to new and emerging technologies and iii) critical thinking in the broadest context of technological change.

Faculty Achievements

List of Journal Papers Published :

S.No	Nmae of Authors	Title of the Paper	Name of Journal	Volume No. & Iss	Month/Year
1	Dr.Mahesh Kotha,Annapurna Gummadi, Shaik Sharif,Bodla Kishor	A Novel Framewrk Improve Security Performance Issues in Health Care System using CloudComputing	International Journal of Scientific Research in Science and Technology.	VOL-9,Issue-4	Apr 2022
2	Dr .G.Vinoda Reddy, Mrs.Rafath Samrin, G. Lavanya, Aluri Gopi.	A Novel study on Cloud Computing Applications, Energy Efficiency Models, Security and privacy Issues	International journal of analytical and experimental modal analysis	Vol XIV,Issue V	May 2022
3	G. Vinoda Reddy , Bodla Kishor, G.Parvathi Devi , Kovuri Praveen Kumar, Annapurna Gummadi	BRAS : Development of Prototype Cloud Model for Failure Recovery Management by Using Backup Resource Allocation Strategy	International Journal of Scientific Research in Science and Technology.	Vol 9, Issue 3	Jun 2022
4	Podila Mounika,Ch.Swetha ,Dr.Mahesh Kotha,D Anusha	A Systematic Review On Machine Learning Algorithms For Diagnosis of Diabetes in health Care Systems	International Journal of Scientific Research in Science and Technology.	VOL-9,ISSUE3	Jun 2022
5	G. Vinoda Reddy ,M. Sreenu Naik , G Parvathi Devi , Arfa Mahavish	Implementation of Prediction Model for Medical Diagnosis of Breast Cancer Using Machine Learning Algorithms and Classification Techniques.	International Journal of Innovative Research in Technology.	Vol 9 Issue 1	Jun 2022
6	Vinoda Reddy, Ch. Rekha, M.Sreenu Naik, Ms.Syeda Sumaiya Afreen	A Review on Machine Learning Algorithms and Classification Techniques in Diabetes Medical Diagnosis and Healthcare Systems	International Journal of Emerging Technologies and Innovative Research	Volume 9	Jun 2022

Students Achievements

- Team Techno Crew (**K. Roshini, C. Spandana, K. Sai Yugandhar, M. Kailash, R. Vishnu Vardhan Reddy, K. Shiva Charan Reddy**) developed a project on “**Automatic Number Plate Recognition using existing General Surveillance Cameras**” and was selected for the Grand Finale of SIH 2022.
- Team Profiled Jarvis (**P. Shreshta, S. Navya, M. Sahith, T. Koushik, G. Abhiprakash, I. Rahul**) presented an AI-based Interactive Robot for Elderly Care and was selected for the Grand Finale of SIH 2022.
- **E. Danyasree** secured Winner position in Technical Quiz Azura2k22, organized by CMRCET, Hyderabad.

- **Team Techno Crew & Team Profiled Jarvis** – Selected for grand finale in SIH 2022



- **E. Danyasree** – Winner in Technical Quiz Azura2k22 organized by CMRCET, Hyderabad



Events Organized

- **TECHGENIX 2K22** – Technical Seminars by Students



- Session on Engage in Entrepreneurship through Innovation

CMR TECHNICAL CAMPUS
ACCREDITED BY AICTE & NAAC WITH 'A' GRADE
APPROVED BY AICTE, NEW DELHI, AND JNTU, HYDERABAD
KANDLAKURTA (O), MEDICAL RD, HYDERABAD, TELANGANA 501 451.

CSE INSTITUTION'S INNOVATION COUNCIL **nirf**

Department of CSE (AI&ML) Organizing a
Session on
**ENGAGE IN ENTREPRENEURSHIP
THROUGH INNOVATION**

GUEST SPEAKER
SATYA SIDHARTHA PANDA
Digital Coach, Certified Life Skills Trainer
Training Head- Digital Marketing, UTTR-India

18th Feb, 2022 **05:30 PM - 06:30 PM**

REG: <https://bit.ly/CMRTCAIMI-REG> <https://bit.ly/CMRTCAIMI-MEET>

Ms. Syeda Sumaiya Afreen
Co-Ordinator
CMR TECHNICAL CAMPUS
Hyderabad

Dr. Sudha Arvind
Convener, IIC
CMR TECHNICAL CAMPUS
Hyderabad

Dr. S Rao Chintalapudi
HOD CSE (AI & ML)
CMR TECHNICAL CAMPUS
Hyderabad

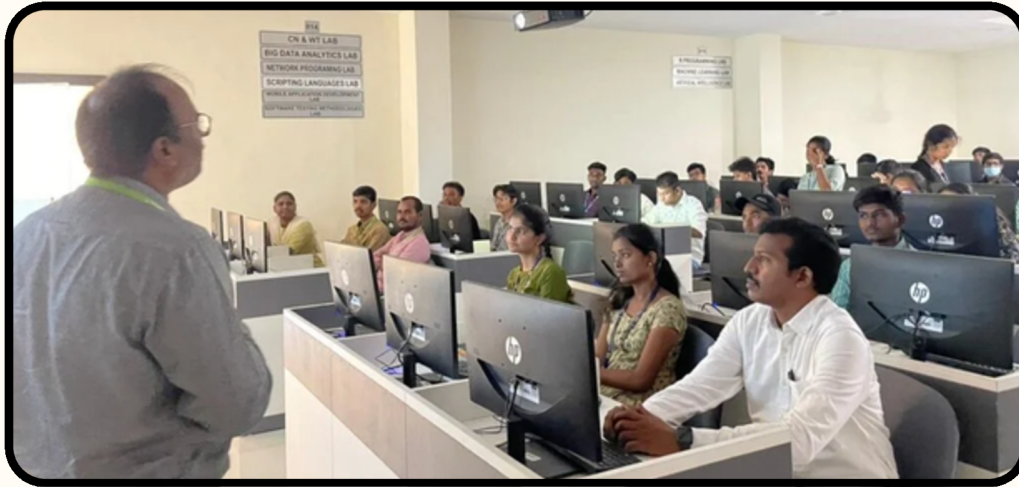
Dr.K. Srujan Raju
Vice President, IIC
CMR TECHNICAL CAMPUS
Hyderabad

Dr . M. Ahmed Ali Baig
President, IIC
CMR TECHNICAL CAMPUS
Hyderabad

Dr . A . Raji Reddy
Director
CMR TECHNICAL CAMPUS
Hyderabad

www.cmrtc.ac.in

- Faculty awareness session on Outcome Based Education



- Webinar on IP Awareness/Training Program under NIPAM



- Session on “How to Plan for Start-up and Legal Ethical Steps”


CMR TECHNICAL CAMPUS
HYDERABAD

ISO ACCREDITED
ACCREDITED BY NBA & NAAC WITH 'A' GRADE
APPROVED BY AICTE, NEW DELHI, AND JNTU, HYDERABAD
KARNATAKA, IN MEDICAL, IN HYDERABAD, TELANGANA BY SET.




Department of CSE (AI&ML)
Organizing a Session on
“How to Plan for Start-up and
Legal Ethical Steps”

GUEST SPEAKER

Rashmi Ranjan Sahu
Senior Mission Associate
Start-up Odisha (Govt. of Odisha), Bhubaneswar



 **26th April 2022**
 **11:30 PM - 12:30 PM**

Rafath Samrin <small>Co-Ordinator, IIC</small> <small>CMR TECHNICAL CAMPUS</small> <small>Hyderabad</small>	Dr. Sudha Arvind <small>Co-venor, IIC</small> <small>CMR TECHNICAL CAMPUS</small> <small>Hyderabad</small>	Dr. S Rao Chintalapudi <small>HOD CSE (AI & ML)</small> <small>CMR TECHNICAL CAMPUS</small> <small>Hyderabad</small>
Dr. K. Srujan Raju <small>Vice President, IIC</small> <small>CMR TECHNICAL CAMPUS</small> <small>Hyderabad</small>	Dr. M. Ahmed Ali Baig <small>President, IIC</small> <small>CMR TECHNICAL CAMPUS</small> <small>Hyderabad</small>	Dr. A. Raji Reddy <small>Director</small> <small>CMR TECHNICAL CAMPUS</small> <small>Hyderabad</small>

[/cmrtechnicalcampus](https://www.cmrtc.ac.in)
www.cmrtc.ac.in



- National Technology Day Paper Presentation, Poster Presentation



- Session on “ Roadmap for Student Entrepreneurs”

CMR TECHNICAL CAMPUS
ACCREDITED BY UGC, AICTE, ISO 9001:2015 'A' GRADE
 APPROVED BY AICTE, NEW DELHI, AND JNTU, HYDERABAD
 KANDILAKOTA, H. MEDICAL RD, HYDERABAD, TELANGANA 501 401.

Department of CSE (AI&ML)
Organizing a Session on
“Roadmap For Student
Entrepreneurs”

GUEST SPEAKER
Mr. Ashish Kumar P.
 Manager – Technology & Innovations at Atal
 Incubation Centre - CCMB

13th May 2022 **11:30 AM - 12:30 PM**

M. Ravindran Co-Ordinator CMR TECHNICAL CAMPUS Hyderabad	Dr. Sudha Arvind Convener, IIC CMR TECHNICAL CAMPUS Hyderabad	Dr. S Rao Chintalapudi HOD CSE (AI & ML) CMR TECHNICAL CAMPUS Hyderabad
Dr. K. Srujan Raju Vice President, IIC CMR TECHNICAL CAMPUS Hyderabad	Dr. M. Ahmed Ali Baig President, IIC CMR TECHNICAL CAMPUS Hyderabad	Dr. A. Raji Reddy Director CMR TECHNICAL CAMPUS Hyderabad

/cmrtechnicalcampus
www.cmrtc.ac.in

- One Day Workshop on “ Build a Machine Learning Model from Scratch”



From the Editorial...

Greetings to all ,

The deparment is cheerful to present the first edition of the department of CSE (AI&ML) newsletter. It motivates, enlightens and enables the Student & Staff community to focus on their goals and achieve more. This issue explores the hidden talents, commitment, involvement and achievements of the Department Students and Staff Community in their Extra and Co-Curricular activities to the world.

The newsletter of the Department of CSE (AI&ML) covers the information about the Faculty Development Program, faculty achievement, student activities and events.

We look forward to your continued contribution and participation in this Newsletter. Your good ideas, comments or valuable suggestions about this Newsletter are welcome. This may lead to enhance the quality and professionalism of this newsletter in forth coming editions. Thank you for choosing and spending time with this newsletter. We hope, this Newsletter encourage you to conquer more in your field.

*Sd/-
Editorial*

EDITORIAL BOARD

Cheif Editor:

Dr. S Rao Chintalapudi,
Professor & HOD CSE (AI&ML)

Editor:

M.Ravindran, Asst.Professor Dept of CSE(AI&ML)

Supporting Faculty:

Shaik Sharif, Asst.Professor Dept of CSE(AI&ML)

V.Ravinder Naik, Asst.Professor Dept of CSE(AI&ML)

Supporting Students:

P. Pavan kumar (207R1A66A6)

R.S Navaneeth (207R1A6645)

I. Rahul (207R1A66E2)

A. Sohan Abhinav (217R1A6601)

D. Koushik (217R1A6683)

D. Rahul (207R1A66E7)