

CMR INSTITUTE OF TECHNOLOGY

DEPT. OF ARTIFICIAL INTELLIGENCE & DATA SCIENCE
& DEPT. OF CSE (DATA SCIENCE)

DATA PULSE

Volume 4, Issue 2
March 26 - August 26

#132, AECS Layout, ITPL Main Road,
Kundalahalli, Bengaluru-37

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Department Vision



To be globally recognized in the field of Artificial Intelligence and Data Science by creating technically sound professionals and by undertaking high quality research for the betterment of self and humanity.

Department Mission



We strive to empower students with strong technical expertise by providing robust knowledge dissemination facilities. Through experiential learning, we cultivate domain proficiency, shaping well-rounded individuals ready for top-tier industry placements and global challenges. Our commitment to research and academic collaborations with leading institutions and industries fosters innovation and solution-driven learning.



Principal's Note



Learning at CMRIT is a dynamic journey, fostering lifelong learning and innovation. Our Maker Space, the first in Bengaluru, nurtures creativity and problem-solving. CMRIT takes pride in prestigious awards from Google, Microsoft, IEEE, and international platforms.

Beyond academics, our diverse student community thrives through cultural and co-curricular activities. With strong mentorship, we instill values, discipline, and confidence for future success.

-Dr. Sanjay Jain.



Vice Principal's Note



CMRIT, established in 2000, blends high-quality education with innovation and holistic growth. Our Makerspace, research centers, and industry collaborations equip students with real-world skills. With vibrant clubs, outreach programs, and a tech-driven campus, we nurture leaders ready for a dynamic future.

-Dr. B Narasimha Murthy



Message from HoD



It is with great pleasure that I present the DataPulse Newsletter (Volume 4, Issue 2) of the Department of Artificial Intelligence & Data Science (AI/DS) and Computer Science Engineering & Data Science (CSE/DS). This edition showcases the remarkable achievements, initiatives, and contributions of our faculty and students. Covering the period from March 2026 to August 2026, this newsletter highlights the department's advancements, academic excellence, and research endeavors. We hope it serves as a source of inspiration, reflecting the dedication and commitment of our academic community. We deeply appreciate your continued support in realizing the Vision and Mission of our department

-Dr. Shanthi M.B

Professor & Head of AI/DS and CSE/DS



Editor's Reflection



Technology is evolving rapidly, and with it comes the responsibility to use knowledge ethically and meaningfully. Our department strives to nurture not only technical expertise but also creativity, critical thinking, and problem-solving abilities. We believe that the true power of AI lies in its ability to create a positive impact on society. Let us remain curious, embrace new ideas, and continue learning from every experience. Together, let us transform data into insights, ideas into innovations, and aspirations into achievements. I extend my sincere gratitude to our HoD, faculty, and students for their invaluable contributions. May this publication inspire future endeavors and uphold the Vision and Mission of our department and institution

Mrs. Roma Kudale

Editor, DataPulse Newsletter

Department of AI/DS

About the Department



The Department of Artificial Intelligence & Data Science (AI/DS) and Computer Science & Data Science (CS/DS), established in 2021, offers B.E. programs in AI & Data Science and Computer Science & Engineering (Data Science) under VTU, Belgaum, Karnataka — recognized by the Government of Karnataka and approved by AICTE, New Delhi. With 665 students across second, third, and final years, the department has grown rapidly since inception. It has expanded from 12 to 29 faculty members and 7 Non-teaching faculty members, led by Dr. Shanthi M.B., fostering excellence in teaching and learning. Focused on AI, Machine Learning, Data Analysis, and Visualization, the department combines theory with hands-on practice to prepare students as future data scientists, AI professionals, and analysts.



Faculty Team



Dr. Shanthi M. B
Professor and Head,
Dept. of AI&DS / CSE&DS



Dr. Rajan Chattamvelli
Professor of Practice



Mr. Pradeep P V N
Associate POP



Dr. Rinisha Bagaria
Asst Prof.



Dr. Shiksha
Asst Prof.



Mr. Manjunatha Babu
Sr. Asst Prof.



Mrs. Roma Kudale
Asst Prof.



Mr. Vijay Anand P
Asst Prof.



Ms. Vidhyavathi Kotha
Asst Prof.



Mr. Abdul Jabbar K
Asst Prof.



Mr. Geluvaraj.B
Asst Prof.



Ms. Rencita Maria Colaco
Asst Prof.



Ms. Anushree G
Asst Prof.



Mrs. Bhavana Thomas
Asst Prof.



Ms. Pratimarani Jena
Asst Prof.



Ms. Sevanthi P
Asst Prof.



Mr. Varun Khare
Asst Prof.



Ms. Swetha Cordelia A
Asst Prof.



Ms. Keertipriya Bellary
Asst Prof.



Mr. Udit Gupta
Asst Prof.

Faculty Team



Mrs. Rekha Suresha
Asst Prof.



Mrs. Arathy Ajay Kumar
Asst Prof.



Ms. Apoorva G R
Asst Prof.



Ms. Shrinidhi Hegde
Asst Prof.



Mr. Ajay G V
Asst Prof.



Ms. Susmita Das
Asst Prof.



Ms. Amisha Rao
Asst Prof.



Ms. Deepa VK
Asst Prof.



Ms. Greeshmitha A
Teaching Assistant

Non Teaching



Mr. Anil Ambati
Lab Instructor



Mr. Dhananjaya Thonduru
Lab Instructor



Mr. Anil Kumar K B
Lab Instructor



Mr. Murali
Lab Instructor



Mr. N Bhupathi Reddy
Lab Instructor

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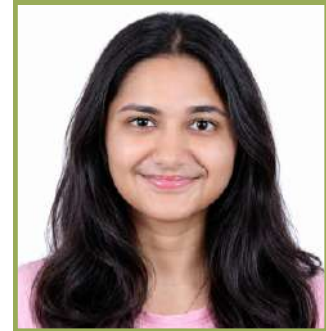
High-Package Achievers



Jyothika R
Ellucian-9.1 LPA



Nihal DR
Ellucian-9.1 LPA



Shreya M Unnithan
Ellucian-9.1 LPA



Sivaani Janaswamy
7-Eleven-12 LPA



Ashirwad
7-Eleven-12 LPA



Shiva Prasad Raju G
Ellucian-9.1 LPA



Sanisetty Sri Meghana
JPMorgan Chase-19.75

VTU Examination Results

The department is proud to announce the results of the recent VTU semester examinations. The **8th semester secured 100%**. The **6th semester AI/DS A Section recorded a 92.20% pass percentage**, Section B recorded **87.01%** and **CS/DS Section C recorded 95.52%**. In the **4th semester**, **AI/DS Section A secured 77.63%** and **Section B recorded 80.26%** and **CS/DS Section C recorded 74.28%**. The department congratulates all the students for their excellent performance and wishes them continued success.

Long-Term Training Program

Learning Artificial Intelligence Through Tools and Applications

The training aimed to enhance participants' knowledge of Artificial Intelligence and its practical applications. Expert resource persons from academia and industry delivered sessions on diverse AI topics. Key areas included Human-Level AI, Machine Learning, Deep Learning, NLP, and Python programming. Participants gained insights into AI concepts, algorithms, tools, and real-world applications. The sessions featured interactive lectures, hands-on learning, and engaging discussions. The program provided an excellent platform for faculty and learners to strengthen their AI skills. Overall, the LTTP contributed to developing practical expertise and fostering innovation in Artificial Intelligence.



CMR INSTITUTE OF TECHNOLOGY BENGALURU

The Department of Artificial Intelligence and Data Science is Organizing a Long-Term Training Program (LTTP) on **Learning Artificial Intelligence Through Tools and Applications**

RESOURCE PERSONS

- Dr. Sam Oliveira**
1st Mar: Understanding AI: From Fundamentals to Machine Intelligence
- Dr. Shiksha**
10th Mar: From Data to Decisions: An Introduction to Machine Learning
- Ma. Roma Kudale**
11th Mar: Machine Learning with Python: Concepts, Algorithms and Applications
- Mr. Vijayanand P**
12th Mar: Deep Learning Theory, Architecture and Applications
- Dr. Rinisha Bagarla**
13th Mar: Deep Learning Made Easy with Python
- Dr. Suganthi K**
14th Mar: Understanding NLP: How Machines Read and Write

Dates: 9th to 14th March 2026
Time: 1:00 pm to 4:00 pm

Venue: BS402, 4th Floor
"B" Block
#132, AECS Layout, ITPL, Main Road,
Kundalahalli, Bangalore-560037

Event Coordinator: Dr. Rinisha Bagarla
Principal: Dr. Sanjay Jain

Scan to Register
www.cmr.ac.in



Hackathon

Anvil Hackathon

- National level 24 hours - **Anvil Hackathon at Scalar school of technology, Electronic city , Bengaluru** which was held on **15th and 16th May 2026**
- **4th place** among **180 teams** and won a cash prize of **INR 3000/-** along with a certificate for their outstanding performance in the competition.
- Project Title: **Persistent Context Engine (PCE): Ending the Operational Reasoning Loop for Autonomous SRE**
- **The participating students are:**

Anvil Hackathon at Scalar school of technology, Electronic city , Bengaluru	ARUNATHESH D R	1CR25CD011
	ANKANAHALLI VARUN MANJUNATHA	1CR25CD008
	ASHISH SRIVASTAVA	1CR25CD012
	NAMAN ANAND	1CR25CS106

CMRIT National Level Social Hackathon 2026

CMRIT successfully hosted its 5th National Level Social Hackathon, where student minds built impactful tech solutions for real-world issues. Huge congratulations to our home-campus champions:

Hardware Category (3rd Place):

Team Verde from CMR Institute of Technology earned a ₹5,000 cash prize.

- **Team Verde Members:** Likit Rahiba S, Prithika, Kovidh V Chodankar, and Barath S.

Software Category (Joint 2nd Place):

Team Lexical Coders (CMRIT) and Team Lumina (MVJ College of Engineering) shared the position, winning a ₹12,000 cash prize.

- **Team Lexical Coders Members:** Riddhima Agarwal, Shivani Sundareswaran, Adeeba Khanum, and Sai Sowmya.





Mega Hackathon (BMSCE)

Irudaya Jason J, Mithun A, M
Darshan Kumar, Mohammed
Nahyan Khan

Ore To Equity, COMPOSIT - 2026 IIT - KHARAGPUR

Harsh Mahto, Ashirwad



Forge-X deep tech 24hrs hackathon

Jyothika R, Sreeliya S

Forge-X deep tech 24hrs hackathon

Mohammed Ali Khan , Tanvi
Rajesh Kaladagi





AtherneX 24hrs, BMSCE college

Adithya M , Goli Bhumesh ,
Anand K , Rishik P

Social hackathon, CMRIT

S Prithikasri



NextGen Convergence - Ideathon by IEEE

Irudaya Jason J, Mithun A, M
Darshan Kumar, Mohammed
Nahyan Khan

DSA Decoders



MOU with Company

Cambrian SkillsDA Technologies and Consultancy Service LLP

Objectives:

- * To Bridge Academia & Industry Gap
- * To enhance student employability & skill readiness
- * To facilitate continuous faculty upskilling
- * To promote collaborative research & innovation
- * To provide experiential learning opportunities



Free Software Movement Karnataka (FSMK)

Objectives:

- Promoting Free& open Source Software for academic growth, research, and societal development and agree to collabrate towards building a strong ecosystem for FOSS engagement among students and faculty.
- Internship program, Workshop & Events, Community Development, Research & Innovation, Outreach.



Student Induction Program

The Department organized a Student Induction Program for 7th-semester students to welcome them to the new academic term. The session provided insights into curriculum, projects, internships, and departmental activities while encouraging participation in technical events, research, and skill-building initiatives. The program fostered enthusiasm and motivated students to begin the semester with fresh goals.



Parent Teacher Meeting

Objective:

- to reflect on the achievements and challenges of our students in the past semester
- to discuss the Academic Process for the 2025-26 Academic year
- to discuss the functioning of department (TLP/TYT/Mentoring/Higher Studies/Placements)
- to encourage a collaborative partnership of parents and teachers in the academic progress of the student



Farewell



Graduation for Class on 2026



Placement Highlights

2022-2026 Batch

AINDS Dept: 72, CSDS Dept: 42

Highest Package: 21 LPA

Sl. No	USN	Name of Student	Name of Company	Package
1	1CR22CD004	Ananya M	Plivo	10
2	1CR22AD009	AMULYA R	Plivo	10
3	1CR22CD013	Diya Rose Melwin	Plivo	10
4	1CR22CD031	Pandi Mona Mythreyi	Opentext	13.25
5	1CR22AD071	MOHAMMED ZAID	Oracle GSC	9.82
6	1CR22CD036	RAMESH TADASANNAVAR	Oracle GSC	9.82
7	1CR22AD039	CHAITANYA HS	Thermo fisher	12.95
8	1CR22CD045	Shraddha Telkar	Thermo fisher	12.95
9	1CR22AD057	KONDREDDY CHARANI SAI REDDY	Thermo fisher	12.95
10	1CR22CD048	Shreya V Reddy	Dell Technologies	14
11	1CR22AD121	V SANJAY KANTH	Indian Naval Academy	21
12	1CR22AD122	VARUN KUMAR.M	F-secure	12
13	1CR22AD118	Tulasi V	Airbus	10
14	1CR22AD006	Akash BC	Sage	11.5
15	1CR22AD120	VM Rutvik Swami	Sage	11.5
16	1CR22CD055	VARUN YARMALLI	Sage	11.5
17	1CR22CD060	Y Nanda Gopal Reddy	Sage	11.5
18	1CR22CD050	Sneha Ojha	Impact Analytics	13
19	1CR22AD016	Avantika Gupta	Ellusian	9.1
20	1CR22CD001	Akashkumar Jain	Ellusian	9.1

Placement Highlights

2023-2027 Batch

Sl. No	USN	Name of Student	Name of Company	Package
1	1CR23AD118	Shreya Singh	HackwithInfy-Infosys	7
2	1CR23AD068	Mainak Roy	HackwithInfy-Infosys	7
3	1CR23AD033	Chandana	Prudential Health India	30K Stipend
4	1CR23AD079	Nadepally Shreya	Prudential Health India	30K Stipend
5	1CR23AD085	Nihal D R	Ellucian	9.1
6	1CR23AD114	Shivaprasad Raju	Ellucian	9.1
7	1CR23AD117	Shreya M Unnithan	Ellucian	9.1
8	1CR23AD001	A. Rahhul Nandhan	Affine Surge	7.5
9	1CR23AD027	Ayush Pundhir	AirDawg Labs	30K Stipend
10	1CR23CD027	Jyothika R	Ellucian	9.1
11	1CR23CD010	Aparnaa S	HackwithInfy-Infosys	7
12	1CR23CD064	Sristi Purkayastha	HackwithInfy-Infosys	7
13	1CR23CD017	C Vishwak Sena	Prudential Health India	30K Stipend
14	1CR23CD001	Aarush Dhingra	ThinkSeed Systems Pvt.Ltd	25K Stipend
15	1CR23AD144	SIVAANI JANASWAMY	7- Eleven Global Solutions	12LPA
16	1CR23AD020	APOORVA THOLPADY	Mu-Sigma	5LPA
17	1CR23AD059	KUNTIMUKKALA SAIRAM	AffineSurge	5.5LPA
18	1CR23CD011	Ashirwad	7- Eleven Global Solutions	12LPA

Top Recruiters

opentext™

plivo

J.P.Morgan

Infosys



ThermoFisher
SCIENTIFIC

AIRBUS

Ellucian



Students Achivements

Technical Fest NextGen Convergence 2026

A total of 140 teams (480 participants) participated in this event. Six various technical events are conducted by IEEE CMRIT technical societies which include

- **PromptX** – Prompt Engineering Battle (AI-focused challenge)
- **The UI Leak** – UI/UX Design & Development Challenge
- **Hardware Hustle** – Project Expo for Hardware Innovations
- **AI & Innovation Challenge** – Data-driven Problem Solving (Idea Presentation and Data Port Hackathon)
- **Track Fusion** – Line Following Robot Race

Winners are:-

2nd Prize – Team Debug4X, College Name: CMRIT, Bengaluru

- Irudaya Jason (2nd year, AIDS)
- Mithun A (2nd year, AIDS)
- Mohammed Nahyan Khan (2nd year, AIDS)
- M Darshan Kumar (2nd year, AIDS)

Major Project Exhibition Winners April 2026



1st Prize – AD 7

Title: RiskRadar: An ML Model for Intelligent Accident Risk Detection for Safer Navigation

Apoorva Tholpady – 1CR23AD020, Harshini Asapu – 1CR23AD041

M Gunajothi – 1CR23AD065, Nishchitha K M – 1CR23AD086



2nd Prize – AD 9

Title: UX AUDIT – An AI-powered system that automatically analyzes websites to detect and report manipulative dark patterns in user interface design.

Adity Sinha – 1CR23AD005, Aryan V Shetty – 1CR23AD025

Hannah Beth Shajan – 1CR23AD039



3rd Prize – AD 01

Title: Payshield

M Tanusree Reddy – 1CR23AD067, Nihal D R – 1CR23AD085

Pusalapati Devesh Reddy – 1CR23AD095, Nadepally Shreya – 1CR23AD079

Mini Project Expo



Students Project Grants Sanctioned:

Title

VIBETALK AI POWERED ASSISTIVE COMMUNICATION SYSTEM FOR HEARING AND SPEECH IMPAIRMENT

Students involved: Ms. AKSHATA TAVANAPPA UNDRI Ms. AMULYA R Ms. JESSICA MARIS J Ms. LAKSHITHA S R

Guide: Mrs. Roma Kudale

Amount sanctioned: Rs. 4000/-

Agency: KSCST, Karnataka

Title:

FLUTTER POWERED SMART ATTENDANCE SYSTEM USING INSIGHTFACE

Students involved: Ms. AVANTIKA GUPTA Mr. AKASH BC Ms. KONDREDDY CHARANI SAI REDDY Mr. YOGESHA E

Guide: Ms. Rencita Maria Colaco

Amount sanctioned: Rs. 2500/-

Agency: KSCST, Karnataka

Title:

MULTI VISION-LANGUAGE CAPTIONING SYSTEM

Students involved: Mr. ADITYA DHARANE Mr. KP ROHAN Mr. SUNAY DAS Mr. V SANJAY KANTH

Guide: Ms. Rencita Maria Colaco

Amount sanctioned: Rs. 2500/-

Agency: KSCST, Karnataka

GSOC-2026

CMRIT students got qualified for the prestigious Google Summer of Code (GSOC) - 2026 Internship Program



Nihal D R, Dept. of AI & DS, has contributed to the project titled 'Ultimate Alarm Clock III' with [CCEXtractor](#), an organization that develops and promotes open-source tools for media accessibility and processing. The project, undertaken as part of Google Summer of Code (GSOC) 2026, focuses on enhancing the reliability and performance of a feature-rich Flutter-based alarm application, integrating Google Calendar and Google Assistant, developing a shared alarm notification system, and improving maintainability through centralized UI components, better state management, and CI/CD pipelines, under the mentorship of [Rijuth Menon](#).

Google Ambassador Selects 2026



Ms. Riddhima
Agarwal



Mr. Jason



Mr. Mohd. Ali

Community Connect Activities

Swachh Bharat Abhiyan: Promoting Hygiene and Sustainable Cleanliness

Date: 9h March 2026 and 10th March 2026



Women's Information Club for Social & Economic Empowerment

Date: 12 -03 - 2026



Student MOOC certificates

LTTP on “Learning Artificial Intelligence Through Tools and Applications” from 9th Mar 2026 to 14th Mar 2026



Publications by Faculty

S. No.	Name	No. of Publications
		2025-2026
1	Dr. Rinisha Bagaria	3
2	Ms. Vidhyavathi Kothe	2
3	Ms. Anusha Johnson	1
4	Ms. Vedashree	1
5	Mr. Geluvaraj B	1
6	Ms. Rekha Suresha	1
7	Ms. Pratimarani Jena	1
8	Ms. Prabhjot Kaur	1
9	Ms. Roma Kudale	1
10	Mr. Abdul Jabbar	1
11	Mr. Vijayanand P	1
Total		14

- Bagaria, R., Wadhwani, S., Wadhwani, A.K. (2025). A Support Vector Machine-Based Classification for Distinct Medical Image Modalities. In: Kumar, S., Mary Anita, E.A., Kim, J.H., Nagar, A. (eds) Fifth Congress on Intelligent Systems. CIS 2024. Lecture Notes in Networks and Systems, vol 1276. Springer, Singapore. https://doi.org/10.1007/978-981-96-2697-7_27
- S. Mangalmurti and R. Bagaria, "Deep Learning for Wildlife Monitoring: A Crosshabitat Generalized Framework for Camera Trap Image Classification," 2026 IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IATMSI), Gwalior, India, 2026, pp. 1-6, doi: 10.1109/IATMSI68868.2026.11465610.
- R. Bagaria, S. B, A. G and S. Mangalmurti, "A Robust X-Ray Image Classification Framework Based on Wavelet Transform and Shift-Invariant Features," 2026 IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IATMSI), Gwalior, India, 2026, pp. 1-6, doi: 10.1109/IATMSI68868.2026.11465325.

- B. S. Ahamed et al., "Enhanced Rainfall Prediction Using Conv1D and Temporal Fusion Transformers for Precision Forecasting," 2026 IEEE International Conference on Emerging Computing and Intelligent Technologies (ICoECIT), Hyderabad, India, 2026, pp. 1-7, doi: 10.1109/ICoECIT68303.2026.11497597
- V. Kotha, N. B. Krishna, A. Surendra, S. Priyanka, D. Nemalidinne and K. Kushmitha, "A Scalable and Interpretable Web-Based ML System for Real-Time Diabetes Risk Prediction," 2026 IEEE International Conference for Convergence in Computing Technology (I3CTCON), Lonavala, India, 2026, pp. 1-5, doi: 10.1109/I3CTCON68242.2026.11507390.
- Sevanthi, P., Anusha, Kalaiselvi, R., Malathi, G., Thomas, B. (2026). A Multimodal Machine Learning Approach for Attentiveness Detection via Gaze and Emotion Analysis. In: Kumar, V.N., Senkerik, R., Prasad, V.K., Kumar, T.K. (eds) Intelligent Computing and Communication. ICICC 2025. Lecture Notes in Networks and Systems, vol 1839. Springer, Cham. https://doi.org/10.1007/978-3-032-18349-1_8
- A. G, S. B, V. L V, D. L S, A. Tholpady and M. Gunajothi, "Data-Driven Crop Prediction: Combining Ensemble Methods with Interpretable AI," 2026 International Conference on Smart Futuristic Technology, Bengaluru, India, 2026, pp. 1-8, doi: 10.1109/ICSFT66733.2026.11506704.
- V. L V, A. G, U. KC, R. Suresha, J. R and A. Kathyanian, "Exploring the Synergy of Quantum-Classical Integration in Machine Learning Algorithms," 2026 International Conference on Smart Futuristic Technology, Bengaluru, India, 2026, pp. 1-9, doi: 10.1109/ICSFT66733.2026.11508098.
- A. Rai, M. L. Ali, M. A. U. Rahim, M. Zaid, P. Jena and R. Bagaria, "Hybrid Contextual PII Redaction: An LLM-Regex System for Diverse Digital Assets," 2026 IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IATMSI), Gwalior, India, 2026, pp. 1-6, doi: 10.1109/IATMSI68868.2026.11466036.
- P. Kaur, S. Khare and K. S. Yadav, "Polycystic Ovary Syndrome Detection using Explainable XGBoost with SMOTE-Based Data Balancing," 2026 3rd International Conference on Integrated Intelligence and Communication Systems (ICIICS), Kalaburagi, India, 2005, pp. 1-5, doi: 10.1109/ICIICS67880.2026.11483543.

- A. Undri, A. R, L. S R, J. J. Maris and R. Kudale, "Vibetalk- AI-Powered Assistive Communication System for Hearing and Speech Impairment," 2026 1st International Conference on Emerging Trends in Advancements and Applications of Computational Intelligence Techniques (ETA ACT), Bhubaneswar, India, 2026, pp. 1-8, doi: 10.1109/ETA ACT69135.2026.11541470.
- V.Shanthi, M. Rajaram, C. Preethibha, A. J. K, R.K.Keerthana and P. K. K, "Graph-Enhanced Privacy-Preserving Federated Cognitive Digital Twins for Intelligent Industrial IoT Risk Modeling," 2026 International Conference on Smart Electronic Devices and Intelligent Systems (ICSEDIS), Chiramanangad, India, 2026, pp. 1192-1197, doi: 10.1109/ICSEDIS68157.2026.11518259.
- P. Robert et al., "Candlestick Pattern Detection Using YOLOv11," 2025 6th International Conference on Communication, Computing & Industry 6.0 (C2I6), Bengaluru, India, 2025, pp. 1-7, doi: 10.1109/C2I666499.2025.11366955.

Patent Registered by Students along with Faculty



SI NO	Student Involved	Title of the patent	Patent Application Number
1	Amulya, Akshatha, Lakshitha, Jessica	VibeEar: A Wearable Voice-to-Vibration Translator for Hearing-Impaired Individuals	202541086257
2	Durgashewtha, Dewanshi, Rakshitha	Smart Adaptive Baby Carry Bag with Integrated Safety Monitoring and Posture Correction System	202541091906
3	Nihal, Devesh, Tanushree	AloeCharge: Bio-Electrochemical Energy Cell with Stabilized Aloe Vera Gel Electrolyte and Hybrid Silicon-Biopolymer Casing	202541086248
4	Shrinidhi, Rutvik, Shreya	NextGen Air Filter with Intelligent Humidity Monitoring	202541092997

SI NO	Student Involved	Title of the patent	Patent Application Number
5	Apoorva	RevMed: System for Extraction and Recycling of Active Pharmaceutical Ingredients from Expired Medicines	202541115634
6	Purvik, Kartik, Prajwal, Harsha	Smart Weighing Shoes for User Weight Detection	202541115566
7	Aryan, Manzil	A Pigeon Repellent System for Home and Apartment Balconies	202541120138
8	Ashirwad, Aditya, Vishwak	AI System for Early Detection of Electrical Fire Risks	202541117260
9	Saksham Jaiswal, Sanidhya Kalta	Adaptive Fabric-Sensing Iron with Automatic Temperature Control	202641008807
10	Aranya Bandhu	NeuroSystem: Advanced Target Locking System for Fighter Pilots Using EEG	202260006022
11	Rakshitha J,Jyothika R,NiharikaKiradoo,MohamedHassan,Sreeliya S	Multimodal Deep Learning for Cardiovascular Disease Identification in Atrial Fibrillation Patients Using ECG and Clinical Data	202641010587
12	Ayush Rasily	Smart Water Purifier with Filter Health Indicator	202641019861
13	Nihar D R, Adeeba	AI that predicts learning gaps from student mistakes	202641017394
14	Sumit Shukla, Sagar Pandit, Yashwant Dev, Sayara B	AI-Powered 3D Pose Correction System	202641016738
15	Sanisetty Sri Meghana, Rakshitha	IoT based gas leakage detection system	202641018141

External Events

Technical Talks attended by Faculty



Faculty Achievements



Prof. Vijay Anand
secured **Elite Gold** Course titled “**Human Computer Interaction**” with a consolidated score of **95%**.



Prof. Geluvaraj B.,
secured **SILVER-ELITE** Course titled “**Artificial Intelligence for Management**” with a consolidated score of **75%**.



Dr. Sasikala N.,
secured **Elite Gold** Course titled “**Data Mining**” with a consolidated score of **92%**

Tech Talk

Technical Talks by Faculty on Cutting Edge Technologies



Placement Orientation

Orientation Session by Chief Faculty Placement Coordinator



FDP Attended by Faculty



Sports

AI-DS department won the Staff IGNITE-26 Annual Inter department sports-2026.



Article by Faculty

Can AI Overcome Humans?

Artificial Intelligence (AI) has progressed from performing simple calculations to solving complex problems, generating content, writing computer programs, analyzing medical images, and assisting scientific research. This raises an important question: Can AI eventually overcome human intelligence?

The answer depends on what we mean by overcome. In several specific tasks, AI has already surpassed humans. AI systems can process enormous amounts of information, perform calculations rapidly, recognize patterns in large datasets, and sometimes outperform human experts on narrowly defined problems. Stanford's 2026 AI Index reports that frontier AI systems are now surpassing human-level performance on several challenging benchmarks.

However, intelligence is much broader than performance on individual tasks. Humans can learn from very few examples, understand social and emotional contexts, make decisions based on values, adapt to completely unfamiliar situations, and connect knowledge from different areas. Researchers have argued that human intelligence developed under biological limitations such as limited time, memory, computation, and communication—and these limitations helped shape distinctive human abilities.

AI also has important weaknesses. Current systems can produce incorrect information with confidence, struggle with certain forms of generalization and reasoning, and do not possess human experiences, emotions, or consciousness in the way people do. A recent *Nature* discussion highlighted challenges involving generalization, world representation, and selecting relevant information—abilities important for human-level general intelligence.

Therefore, the future may not be a simple competition between AI and humans. AI may become better than humans at many individual tasks while humans remain better at other forms of intelligence. The more meaningful question may be: What can humans and AI accomplish together that neither could accomplish alone?

AI is likely to transform education, healthcare, engineering, research, and almost every profession. The people who benefit most may not be those who compete against AI, but those who learn how to work effectively with AI while retaining human creativity, judgment, ethics, empathy, and responsibility.

AI may overcome humans in some tasks, but overcoming human intelligence as a whole is a much bigger challenge. The future is unlikely to be simply “AI replaces humans.” Instead, it may be a future where human intelligence and artificial intelligence complement each other, creating a new form of human–machine collaboration.

Dr. Shiksha

Assistant Professor, AI&DS Dept.

On the moments of noncentral chi-squared distribution

Moments of noncentral chi-square distribution find applications in various fields. Recurrence relations are useful to compute higher-order moments from lower-order ones. This paper proposes an alternate method to compute ordinary moments using the results reported by Cameron (Commu. Stat., 1975) and Ashour & Abdel-Samad (Commu. Stat., 1990), which is useful to get reasonable moment and CDF approximations when the noncentrality parameter is very small. A generalized Laguerre polynomial representation for moments is also obtained.

This paper proposed a simple method to compute the higher-order moments of noncentral chi-square distribution for any DoF using the results reported by Ruben ([Citation1974b](#)) and Cameron ([Citation1975](#)). It also established that the expression for CDF given by Ashour and Abdel-Samad ([Citation1990](#)) for odd DoF is a special case of above formula.

Whereas the recurrence relation method is primarily a computational device for efficiently generating moments by starting with low-order ones, the infinite-series representation is fundamentally a structural representation that provides improved behavior for very small noncentrality parameters. While recurrence relations are highly valued by statisticians and computer scientists alike for their direct algorithmic execution and ease of computational-complexity analysis, they possess inherent structural vulnerabilities that make them less suitable for theoretical analysis such as asymptotics and bounds in extreme-parameter regimes. Luckily, the Laguerre polynomial representation provides a quick and easy method when software packages such as R, Splus, Mathematica, or Scipy are used.

The results discussed are helpful to compute the moments of other distributions directly related to the noncentral chi-square distribution (Jones and Marchand [Citation2021](#); Jones [Citation2026](#)). In summary, the infinite-series and Laguerre polynomial representations often provide deeper insights than the recurrence relation in asymptotic theory, moments of quadratic forms, and random Wishart matrix analysis, especially for very small noncentrality parameters, whereas the recurrence relation method is to be preferred when k is small and computing speed is of paramount importance.

Dr. Rajan C
PoP, Department of AI & DS

Article by Student

Strategic Trends and Infrastructure Realities in Artificial Intelligence and Data Science

If 2026 has taught us anything, it's that AI is no longer about just churning out bigger models and hoping for the best. The industry has officially grown up. We've long since bypassed the era of tossing more data, more compute at every challenge and have entered a phase where efficiency, practicality in real-world applications and responsible implementation, truly counts.

One of the most exciting shifts we've witnessed this year concerns how AI models actually think. Instead of producing answers in a single shot, current systems are taking their time and using some extra computational firepower to do some actual deep thinking about challenging issues before they

make up their mind. The Group Relative Policy Optimization or Process Reward Models are providing the means to make this happen without breaking the bank on memory use—and this is massive for deploying these systems at scale.

In the realm of infrastructure, the landscape is just as dynamically evolving. The forthcoming Vera Rubin architecture, courtesy of NVIDIA, will drastically cut the cost of inference through the integration of new-generation memory capable of keeping up with demands over long AI conversations. As always, the necessary power has to be sourced somewhere and this has pushed tech giants such as Microsoft, Amazon and Google into uncharted territory, signing massive deals with nuclear energy suppliers for powering their data centres.

Not least, our methods of software development are also in a state of upheaval. AI is now the creator of nearly half of all the software code we develop today, a practice affectionately nicknamed “vibe coding”. Although it might seem impressive at first glance, its implications have raised significant red flags, with reports indicating that a majority of it contains various security bugs, forcing companies to re-evaluate their processes for examining and administering AI-driven development.

But perhaps the most impactful finding this year is concerning the business perspective. A study by MIT found that a startling 95% of AI projects in enterprise settings are unsuccessful in producing any discernible financial benefits. The success stories are not exploring revolutionary use cases, but instead strategically applying AI to back-office jobs that are repetitive and high-volume to achieve immediate cost savings.

This reinforces that having advanced technology is not a panacea; its successful application, knowing exactly where and how to implement it, is the differentiator that distinguishes breakthrough success from costly experimentations.

The future belongs to those who know where to plant the AI trees, not just to those who grow the largest ones.

Faculty Awards



Birthday and Festival Celebrations



The team celebrates birthdays and the vibrant festival of Onam, bringing everyone together in a spirit of joy and togetherness.

Festive Pookalam decorations, smiles, and shared moments beautifully capture the warmth of these celebrations.

Student Testimonials

Some places become a part of our journey, but some places give a definition to our personality. That's how my department has played a part in my life.

3 complete years of learning, understanding, finding myself, finding my strengths, weaknesses. The exposures, different situations, different received opportunities, missed opportunities. All coming back as the greatest learnings and adaptations of my college life to take it forward all throughout life.

The amazing, lively, happening department of mine has brought up the undiscovered part of my capabilities and helped me learn more about myself to shine in the outside world.

Our HOD, faculties and mentors have provided their best to help us shine brighter and come out in flying colours. Always grateful and will be indebted to their efforts towards shaping my career and academic growth.



Ms. Shrinidhi Umapathi

B.E. 2026 graduating batch

Some places become a part of our journey, but some become a part of who we are. My department has been one such place in my life.

Three years of learning, exploring, discovering my strengths, understanding my weaknesses, embracing opportunities, and learning from the ones I missed. Every experience has shaped me in ways that I will carry far beyond college.

Being a part of such a vibrant and lively department helped me discover abilities I never knew I had and gave me the confidence to step into the world beyond these walls.

I am deeply grateful to our HOD, faculty, and mentors for their constant guidance and support in shaping my academic journey and career. I leave with not just a degree, but countless lessons, memories, and a better understanding of myself.



Ms. Srishti B S

B.E. 2026 graduating batch

Fun Zone: Learn, Play & Explore

Unscramble the Tech Word

Give scrambled words and ask students to identify them:

- T A A D → _ _ _ _ _
- N H O Y T P → _ _ _ _ _
- H I T G R O A L M → _ _ _ _ _
- L A U R N E → _ _ _ _ _
- D L E M O → _ _ _ _ _

Match the Following

Term	Match With
Python	A. Deep Learning Framework
Dataset	E. Language Processing
TensorFlow	C. Programming Language
CNN	D. Image Processing
NLP	B. Collection of Data

Decode the Binary Message

- 01000001 01001001
- 01000100 01000001 01010100 01000001
- 01000011 01001111 01000100 01000101
- 01000100 01000001 01010100 01000001 01010011 01000101 01010100
- 01010000 01011001 01010100 01001000 01001111 01001110

CMR Group of Institutions



CMR UNIVERSITY

School of Architecture
School of Design
School of Engineering & Technology
School of Economics & Commerce
School of Management
School of Science & Computer Studies
School of Legal Studies
School of Liberal Studies
School of Allied and Healthcare Sciences
College of Nursing (Proposed)

COLLEGE

CMR Institute of Technology

PU COLLEGES

CMR National PU College, HRBR Layout
CMR National PU College, ITPL
CMR National PU College, Byrathi
CMR National PU College, NICE Road
CMR National PU College, BTM

SCHOOLS

CMR National Public School, HRBR Layout
NPS International, Singapore
Ekya School, ITPL
Ekya School, BTM
Ekya School, JP Nagar
Ekya School, Byrathi
Ekya School, NICE Road
Ekya Nava, Panathur
Ekya Vana, RMV
Ekya Vana, Manyata
Ekya Vana, Bannerghatta



CMRU Campus



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EKYA NAVA



EKYA VANA

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