CANARA
ENGINEERING COLLEGE

DARPANA

NEWSLETTER FROM **CANARA ENGINEERING COLLEGE**

Artificial Intelligence and Machine Learning

- IOT
- GITHUB
- UI/UX FUNDAMENTALS
- (LLM) - GENAI
- JAVASCRIPT
- THINK LIKE A MACHINE
- FLUTTER
- LATEX
- IDEATHON
- HTML & CSS

VTU Rank

Student Achivements

Staff Achievements

NPTEL / Coursera

DEPARTMENT PROFILE

The department was established in 2021 to offer an undergraduate degree program, the Bachelor of Engineering (BE) in Artificial Intelligence and Machine Learning (AIML). AIML is at the forefront of computer science, expanding rapidly into sectors such as healthcare, security, entertainment, education, autonomous transportation, robotics, space exploration, speech processing, and stock trading, among others. The pervasive influence of artificial intelligence has profoundly impacted our lives. AI aims to emulate human intelligence, imparting cognitive abilities to robots. Machine learning (ML), a subset of AI, enables machines to learn autonomously.

The emergence of AI and ML has generated numerous career opportunities and is a pivotal driver of digital transformation, creating a high demand for skilled engineers proficient in these technologies. Graduates of this program possess a highly valuable degree, opening doors to employment across various industries. The curriculum emphasizes core competencies in mathematics, network architectures, computer vision, Computer programming, communication networks, machine learning, Artificial Intelligence, and Data Science equipping students to develop intelligent applications that address societal and national needs.

The department actively conducts skill enhancement training programs for both faculty and students, fostering technological advancements and disseminating research findings. It offers soft skills training, technical skill development activities, and encourages self-learning through certification courses available on prominent online platforms (SWAYAM-NPTEL, Coursera, Udemy, edX), as well as extracurricular engagements facilitated by various clubs, aimed at enhancing placement opportunities and fostering overall personality development.

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EDITORIAL BOARD

Dr. Basappa B. Kodada
Professor & HOD

Mr. Nagaraj Gadagin
Assistant Professor

Mrs. Sowmya D
Lab Instructor

STUDENT MEMBERS

Ms. Thanvi
4CB21AI054

Mr. Vikesh
4CB21AI060

Mr. Ajay P. Mahale
4CB22AI004

Ms. Disha Suraj Kallya
4CB22AI017

Mr. Manvith V Moolya
4CB23AI052

Ms. Kavya
4CB23AI042

Mr. Pratheek Kini
4CB23AI071

Ms. Sanjana Mahale
4CB23AI087

VISION AND MISSION OF THE DEPARTMENT

VISION

To be identified as learning centre in the domain of Artificial Intelligent and Machine Learning education that delivers competent and professional engineers to meet the needs of industry, society and the nation.

MISSION

- To impart skill-based (Artificial Intelligent and Machine Learning) education through competent teaching-learning process.
- To establish a research and innovation ecosystem that provides solution for technological challenges of industry, society and the nation.
- To promote innovation and start-up culture among staff and students for addressing the challenges of needy.
- To set-up industry-institute interface for overall development of students through practical internship and team work activities.

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PROGRAMME EDUCATIONAL OBJECTIVES (PEO)

Design and develop learning-based intelligent systems in the field of artificial intelligent, machine learning, and allied engineering sectors. Apply skills and knowledge of computer science to address relevant industry and societal problems or pursue higher education and research.

Graduates will design and deploy software that meets the needs of individuals and the industries. Engage in lifelong learning, career advancement and adoption of changing professional and societal needs.

PROGRAMME OUTCOMES (PO)

Engineering graduates in Artificial Intelligence and Machine Learning will be able to:

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.

2. **Problem analysis:** Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal and environmental considerations.

4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods, including design of experiments, analysis and interpretation of data and synthesis of the information to provide valid conclusions.

5. **Modern tool usage:** Select/Create and apply appropriate techniques, resources and modern engineering and IT tools, including prediction and modelling to complex engineering activities, taking comprehensive cognizance of their limitations.

6. **The engineer and 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.

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.

8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the relevant scientific and/or engineering practices.

9. **Individual and team work:** Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary settings.

10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with the society-at-large, such as being able to comprehend and write effective reports and design documentation, make effective presentations and give and receive clear instructions.

11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work as a member and leader in a team to manage projects and in multidisciplinary environments.

12. **Life-long learning:** Recognize the need for and above have the preparation and ability to engage in independent and life-long learning in the broadcast context of technological changes.

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PROGRAMME SPECIFIC OUTCOMES (PSO)

1. **Intelligent Systems:** Select appropriate technologies to analyse, design, implement, and deployment of smart and intelligent systems

2. **Contemporary Systems:** Design, and development of efficient IT solutions for challenging issues through experiential learning

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AIML FAMILY

Dr. Basappa B. Kodada
Professor & HOD

Dr. Sujatha M.
Associate Professor

Dr. Dhananjaya G. M
Associate Professor

Mrs. Kanmani
Assistant Professor

Mr. Siju V. Soman
Assistant Professor

Mr. Deepak D.
Assistant Professor

Mr. Nagaraj Gadagin
Assistant Professor

Mr. Nithin Kurup U.G.
Assistant Professor

Mr. Arjun K
Assistant Professsor

Mrs. Supriya A. V.
Assistant Professor

Mr. Divyesh Divakar
Assistant Professor

Mr. Kiran Ankalakoti
Assistant Professor

Mrs. Kavitha K. B
Assistant Professor

Mrs. Prathiksha
System Analyst

Mrs. Sowmya D.
Lab Instructor

Mrs. Vijetha B
Lab Instructor

Mr. Prajwal K
Lab Instructor

Ms. Navyashree
Programmer

Ms. Swathi
Programmer

AIML	Male	Female	Total
Faculty	09	04	13
Staff	01	05	06
Students II year	58	70	128
Students III year	42	21	63
Students IV year	27	36	63

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STAFF ACHIEVEMENTS

Publications/Patent/FDP/Workshop/Training/Conference/Exhibition attended

- Published a patent titled **"AI based Acoustic Wave Monitoring of Rail Wear, Quality Along with Other Parameter"**, on30/05/2025, Intellectual Property of India.
- Published a patent titled **"CookCommander - An IoT-Based Robust Stove Control System"**, on 30/05/2025, Intellectual Property of India.
- Published a patent titled "**Artificial Intelligence for Smart Agriculture**", on 30/05/2025, Intellectual Property of India.

Dr. Basappa B Kodada

- Participated in **India Electronics Week 2025** & **Co-located Events**, held on 26 Feb - 28 Feb 2025 at KTPO, WHITEFIELD, Bengaluru, India.
- Participated in the workshop on **Build a Fitness Monitor Using TinyML with the Raspberry Pico** conducted at India Electronics Week 2025 & Co-located Events, held on 26 Feb - 28 Feb 2025 at KTPO, WHITEFIELD | Bengaluru, India.
- Participated in the workshop on **Enable Smart Home Automation with IoT** using Open Source Software conducted at India Electronics Week 2025 & Co-located Events, held on 26 Feb - 28 Feb 2025 at KTPO, WHITEFIELD | Bengaluru, India.
- Participated in the workshop on **Develop Your Own IIoT System that features Digital Twin, AI-powered Automation System** conducted at India Electronics Week 2025 & Co-located Events, held on 26 Feb - 28 Feb 2025 at KTPO, WHITEFIELD | Bengaluru, India.
- Recognized as **BoS Member of KSOU**, Mysore till 27th February 2026.
- Recognized as BoE Member, KSOU Mysore, 1 Year AY 2024-25.

- Published a patent titled "Artificial Intelligence for Smart Agriculture", on 30/05/2025, Intellectual Property of India.

Dr. Sujatha M

- G. S. Hukkeri, R. H. Goudar, G. M. Dhananjaya, V. N. Rathod and S. Ankalaki, published a journal paper on **"A Comprehensive Survey on Split-Fed Learning: Methods, Innovations, and Future Directions"**, in IEEE Access, vol. 13, pp. 46312-46333, 2025, doi: 10.1109/ACCESS.2025.3547641
- Minal Patil, R. H. Goudar, Anand Nayyar, G. M. Dhananjaya, Vijayalaxmi N. Rathod. have published a book chapter. **Inclusive Learning and Assessment in the Era of AI.** In:Murugan, T., Periasamy, K., & Abirami, A.M. (Eds.). (2025). Adopting Artificial Intelligence Tools in Higher Education: Student Assessment (1st ed.). CRC Press. https://doi.org/10.1201/9781003470304

Dr. Dhananjaya G M

- Published a patent titled **"Decentralized Blood Donation and Emergency Assistance Platform Using Blockchain Technology"**, on13/06/2025, Intellectual Property of India.
- Published a patent titled **"AI-powered Diagnostic Recommendation System Using Multimodal Patient Data Fusion"**, on 13/06/2025, Intellectual Property of India.
- Published a patent titled **"Smart Traffic Signal System For Emergency Vehicle Priority"**, on 13/06/2025, Intellectual Property of India.
- Published a patent titled **"Smart Bin Incentives System"**, on 13/05/2025, Intellectual Property of India.
- Published a patent titled **"AI Based Road Inspection System"**, on 12/05/2025, Intellectual Property of India.
- Published a patent titled **"CRISPR-AI Integrated System for Accelerated Drug Synthesis and Molecular Optimization ",** on 26/04/2025, Intellectual Property of India.
- Participated in the workshop on **IPR Practices and Management** conducted at SDM Law College Mangaluru, held on 21-03-2025.
- Participated in the online Faculty Development Program on **TOSCA-Automation Testing Tool, Cloud Computing, DevOps, Generative AI-A Practical Based Approach**, held from 2th January 2025 to 8th February 2025 at Sri Sai Vidya Institute of Technology Bengaluru Organised by IIC, MoEs Innovation Cell.
- Journal of Scientific Research and Reports Certificate of Excellence in Reviewing, on 24-05-2025, awarded by **Journal of Scientific Research and Reports.**

- Divakar, D., Kanmani, Supriya, A.V. have published a book chapter. **Drone Swarm Coordination Using Machine Learning in IoT Networks.** In: Hassan, J., Khalifa, S., Misra, P. (eds) Machine Learning for Drone-Enabled IoT Networks. Advances in Science, Technology & Innovation. Springer, Cham. https://doi.org/10.1007/978-3-031-80961-3_3

Kanmani

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- Kanmani, D. Divakar, K. N, R. E and P. M, have presented and published a paper on **"Machine Learning in Academic Performance Prediction: Analyzing Attendance and Marks to Forecast Future Results,"** in 2024 International Conference on Computing, Semiconductor, Mechatronics, Intelligent Systems and Communications (COSMIC), Mangalore, India, 2024, pp. 264-271, doi: 10.1109/COSMIC63293.2024.10871335.

- D. Divakar, R. Samaga B L, Kanmani, R. E and P. M, have presented and published a paper on **"Safe Fly Prediction Model for Unmanned Aerial Vehicle"** in 2024 International Conference on Computing, Semiconductor, Mechatronics, Intelligent Systems and Communications (COSMIC), Mangalore, India, 2024, pp. 233-239, doi: 10.1109/COSMIC63293.2024.10871266.

- R. E, D. Divakar, K. Jayaprakash, P. M and R. E. G, have presented and published a paper on **"Harnessing Machine Learning to Illuminate and Anticipate Determinants of Academic Excellence in Student"** in 2024 International Conference on Computing, Semiconductor, Mechatronics, Intelligent Systems and Communications (COSMIC), Mangalore, India, 2024, pp. 247-250, doi: 10.1109/COSMIC63293.2024.10871450.

Mr. Siju V Soman

- Published a patent titled **"AI based Acoustic Wave Monitoring of Rail Wear, Quality Along with Other Parameter"**, on 30/05/2025, Intellectual Property of India.
- Published a patent titled **"CookCommander - An IoT-Based Robust Stove Control System"**, on 30/05/2025, Intellectual Property of India.
- Published a patent titled **"Artificial Intelligence for Smart Agriculture"**, on 30/05/2025, Intellectual Property of India.
- Invited as a resource person for One Day Workshop on "DATA VISUALIZATION USING POWER BI & TABLEAU" organized by the Department of Computer Application, Nehru memorial College Kurunjibag, Sullia, D. K. - 574 327 on 30th May 2025.

Mr. Deepak D

- Published a patent titled **"Smart Bin Incentives System"**, on 13/05/2025, Intellectual Property of India.
- Published a patent titled **"AI Based Road Inspection System"**, on 12/05/2025, Intellectual Property of India.
- Published a patent titled **"CRISPR-AI Integrated System for Accelerated Drug Synthesis and Molecular Optimization ",** on 26/04/2025, Intellectual Property of India.

Mr. Nagaraja Gadagin

- Published a patent titled **"Decentralized Blood Donation and Emergency Assistance Platform Using Blockchain Technology"**, on13/06/2025, Intellectual Property of India.
- Published a patent titled **"Smart Bin Incentives System"**, on 13/05/2025, Intellectual Property of India.
- Published a patent titled "**AI Based Road Inspection System**", on 12/05/2025, Intellectual Property of India.

Mr. Nithin Kurup U G

- Published a patent titled "**Artificial Intelligence for Smart Agriculture**", on 30/05/2025, Intellectual Property of India.
- Participated in Five Day Faculty Development Programme on **"A Practical Approach to Modern Technologies"** organized by the Department of Computer Science and Engineering in association with Department of Information Science and Engineering from 10-02-2025 to 14-02-2025 at Canara Engineering College, Benjanapadavu, Bantwal.

Mr. Arjun K

- Published a patent titled **"Smart AI Coconut Scraper"**, on 21/03/2025, Intellectual Property of India.
- Participated in 15 Hours of Faculty Development Program on **Salesforce Business Analyst Professional** (Online Live FDP) conducted by ICT Academy on 16 Jun 2025 to 20 Jun 2025.
- Participated in the Faculty Development Program on **Innovation and Entrepreneurship**, held from 24th to 28th March 2025 at Sahyadri College Of Engineering & Management, Mangaluru Organised by All India Council for Technical Education (AICTE) and Ministry of Education's Innovation Cell (MIC).

Ms. Supriya A V

- Divakar, D., Kanmani, Supriya, A.V. have published a book chapter. **Drone Swarm Coordination Using Machine Learning in IoT Networks**. In: Hassan, J., Khalifa, S., Misra, P. (eds) Machine Learning for Drone-Enabled IoT Networks. Advances in Science, Technology & Innovation. Springer, Cham. https://doi.org/10.1007/978-3-031-80961-3_3
- Participated in a Five-days Faculty Development Program on **"Generative AI Demystified: Tools and Techniques for NextGen Applications"** organized by the Department of Computer Science & Engineering in association with Wipfli LLP, India held during 20th to 24th January 2025 at NMAM Institute of Technology, Nitte.

- Participated in Five Day Faculty Development Programme on **"A Practical Approach to Modern Technologies"** organized by the Department of Computer Science and Engineering in association with Department of Information Science and Engineering from 10-02-2025 to 14-02-2025 at Canara Engineering College, Benjanapadavu, Bantwal.

- Has completed the one-week online Faculty Development Program (FDP) titled **"The Art of Writing Original Research Article,"** organized by ProMind Research Academy, Erode, from 02nd June 2025 to 6th June 2025.

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Divyesh Divakar

- Divakar, D., Kanmani, Supriya, A.V. have published a book chapter. **Drone Swarm Coordination Using Machine Learning in IoT Networks.** In: Hassan, J., Khalifa, S., Misra, P. (eds) Machine Learning for Drone-Enabled IoT Networks. Advances in Science, Technology & Innovation. Springer, Cham. https://doi.org/10.1007/978-3-031-80961-3_3
- Kanmani, D. Divakar, K. N, R. E and P. M, have presented and published a paper on **"Machine Learning in Academic Performance Prediction: Analyzing Attendance and Marks to Forecast Future Results,"** in 2024 International Conference on Computing, Semiconductor, Mechatronics, Intelligent Systems and Communications (COSMIC), Mangalore, India, 2024, pp. 264-271, doi: 10.1109/COSMIC63293.2024.10871335.
- D. Divakar, R. Samaga B L, Kanmani, R. E and P. M, have presented and published a paper on **"Safe Fly Prediction Model for Unmanned Aerial Vehicle,"** in 2024 International Conference on Computing, Semiconductor, Mechatronics, Intelligent Systems and Communications (COSMIC), Mangalore, India, 2024, pp. 233-239, doi: 10.1109/COSMIC63293.2024.10871266.
- R. E, D. Divakar, K. Jayaprakash, P. M and R. E. G, have presented and published a paper on **"Harnessing Machine Learning to Illuminate and Anticipate Determinants of Academic Excellence in Student,"** in 2024 International Conference on Computing, Semiconductor, Mechatronics, Intelligent Systems and Communications (COSMIC), Mangalore, India, 2024, pp. 247-250, doi: 10.1109/COSMIC63293.2024.10871450.
- Published a patent titled **"Dashboard for Swacchta Using AI Based Image Analysis"**, Intellectual Property of India.
- Published a patent titled **"UAV Assisted waste segregation for Urban Areas"**, Intellectual Property of India.

Mr. Kiran Ankalakoti

- Published a patent titled **"Decentralized Blood Donation and Emergency Assistance Platform Using Blockchain Technology"**, on 13/06/2025, Intellectual Property of India.
- Published a patent titled **"Smart Bin Incentives System"**, on 13/05/2025, Intellectual Property of India.
- Published a patent titled "**AI Based Road Inspection System**", on 12/05/2025, Intellectual Property of India.

NPTEL   ONLINE COURSES

Mr. Siju V Soman

Has successfully completed **Generative AI for Data Visualization and Data Storytelling** an online non-credit course authorized by Coursera Instructor Network and offered through Coursera
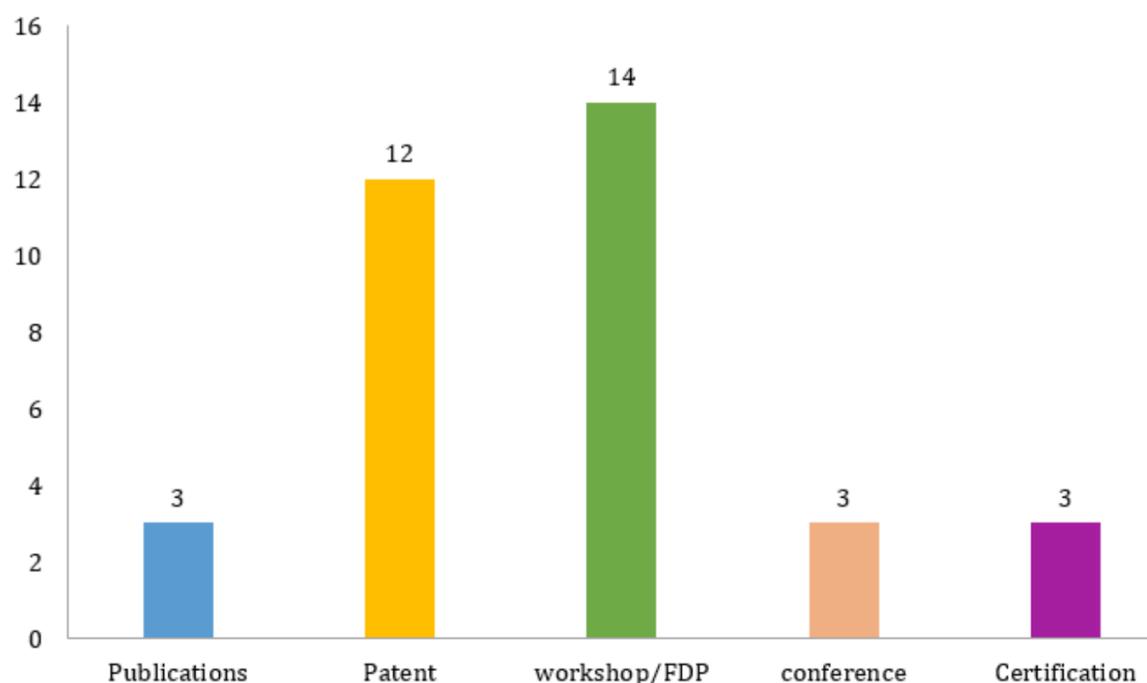
Ms. Sujatha M

Has successfully completed **Statistics for Data Science** an online non-credit course authorized by Coursera Instructor Network and offered through Coursera

Mr. Arjun K

Has successfully completing the course **Java Tools** on June 27, 2025 Infosys | Springboard

Faculty Achievements

Category	Value
Publications	3
Patent	12
workshop/FDP	14
conference	3
Certification	3

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STUDENT ACHIEVEMENTS

ACADEMIC ACHIEVERS

Congratulations

VTU Rank holder

10th RANK

Ashay Shetty
CGPA : 9.51

VIII SEMESTER TOPPERS & RESULT ANALYSIS

Ashay Shetty
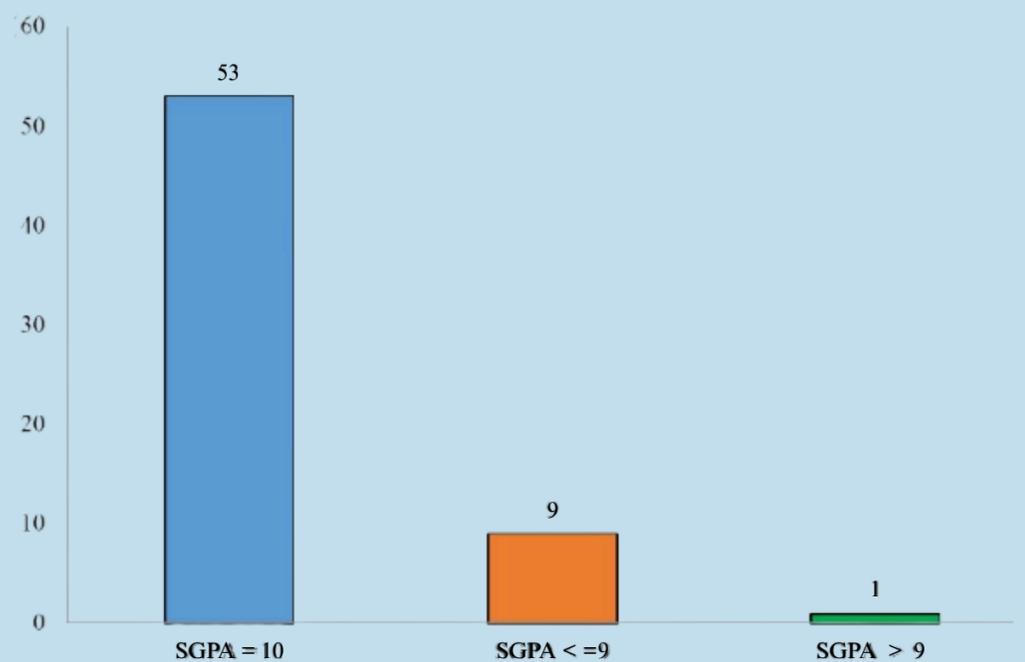4CB21AI006
CGPA 9.51

Pallavi
4CB21AI025
CGPA 9.09

Chaithanya Lakshmi
4CB21AI008
CGPA 8.98

Anoop Sadananda Prabhu K
4CB21AI004
CGPA 8.96

Sharan Raghuveer Pai
4CB21AI040
CGPA 8.84

Bar chart: SGPA = 10 → 53, SGPA < =9 → 9, SGPA > 9 → 1

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STUDENT ACHIEVEMENTS

TECHNICAL EVENTS

- Denzil Serrao from VI semester participated in the 'NPTEL Star Felicitation Event' (Academic Recognition) held at IIT Madras on 09.02.2025, organized by NPTEL at the National Level.
- Denzil Serrao, a sixth-semester, participated in the Ideathon organized by the Department of AIML at Canara Engineering College on 28th February 2025. This intra-college event provided a platform for students to present innovative solutions to real-world problems. Denzil's idea stood out for its creativity and practical relevance, earning him the 2nd Place.
- Ashlesh D Hegde from VI semester participated in the 'Lazarus Missions Hackathon' (Hackathon) held at NITK, Surathkal on 01.03.2025 to 05.03.2025, organized by IEEE NITK Surathkal at the National Level and won the 3rd Place.
- Karthik Baliga from VI semester participated in the 'The Great Bengaluru Hackathon' (Hackathon) held at Bengaluru on 15.03.2025 & 16.03.2025, organized by Zysk Technology & Hackculture at the National Level.
- M Sooraj Shenoy from VI semester participated in the 'The Great Bengaluru Hackathon' (Hackathon) held at Bengaluru on 15.03.2025 & 16.03.2025, organized by Zysk Technology & Hackculture at the National Level.
- Nithin Kamath from VI semester participated in the 'The Great Bengaluru Hackathon' (Hackathon) held at Bengaluru on 15.03.2025 & 16.03.2025, organized by Zysk Technology & Hackculture at the National Level.
- Ashlesh D Hegde from VI semester participated in the 'HackNocturne 2025' (Hackathon) held at Sir MVIT, Bengaluru on 28.03.2025 & 29.03.2025, organized by Sir MVIT, Bengaluru at the National Level.
- Yatheesha K V from VI semester participated in the '8th Two-Day International Research Conference on 'Entrepreneurship and Innovation' (Conference) held at MET Institute of Management, Mumbai. on 04.04.2025 & 05.04.2025, organized by MET, Mumbai & CBA, Ajman University, UAE at the International Level.
- Nithin Kamat from VI semester participated in the "The Great Bengaluru Hackathon" held from 15th March 2025 to 16th March 2025, in Bengaluru.
- M Sooraj Shenoy from VI semester participated and presented a research paper titled "Dashboard for Swacchta Using AI Based Image Analysis" at the 8th Two- Day International Research Conference on " Entrepreneurship and Innovation" held on 4th & 5th April 2025, organized by MET Institute of Management in collaboration with the College of Business Administration(CBA), Ajman University, UAE.
- Karthik Baliga from VI semester participated and presented a research paper titled "Dashboard for Swacchta Using AI Based Image Analysis" at the 8th Two- Day International Research Conference on " Entrepreneurship and Innovation" held on 4th & 5th April 2025, organized by MET Institute of Management in collaboration with the College of Business Administration(CBA), Ajman University, UAE.
- Karthik Baliga from VI semester participated in the '8th Two-Day International Research Conference on 'Entrepreneurship and Innovation' (Conference) held at MET Institute of Management, Mumbai. on 04.04.2025 & 05.04.2025, organized by MET, Mumbai & CBA, Ajman University, UAE at the International Level.
- M Sooraj Shenoy from VI semester participated in the '8th Two-Day International Research Conference on 'Entrepreneurship and Innovation' (Conference) held at MET Institute of Management, Mumbai. on 04.04.2025 & 05.04.2025, organized by MET, Mumbai & CBA, Ajman University, UAE at the International Level.
- Prateek Prakash Kini from IV semester participated in the 'Microsoft MLSA & Imagine' (WORKSHOP) held at Online on 21.04.2025, organized by Techcerv.
- Prateek Prakash Kini from IV semester participated in the 'Watch Grandmaster Code Live' (COMPETITIONS) held at TalentSprint on 22.04.2025, organized by TalentSprint.
- Sarthak Biradar from VI semester participated in the 'TCS TechBytes Inter college IT Quiz' (COMPETITIONS) held at nan on nan, organized by TCS and BITES at the State Level.
- Prateek Prakash Kini from IV semester participated in the 'Build with India' (COMPETITIONS) held at Online on nan, organized by Hack with India at the National Level.
- Rolwin Melron Dsouza from VI semester participated in the 'AI agent using Agentforce' (WORKSHOP) held at nan on nan, organized by GeeksforGeeks & Salesforce at the National Level level and received a Certificate of Participation.
- Mukesh M from VI semester participated in the 'Hack the Cosmos Hackathon' (Hackathon) held at nan on 12-04-2025 & 22-04-2025, organized by SRMIST at the National Level.
- Sarthak Biradar from VI semester participated in natonal Workshop on Information Systems Security organized by dept. of CSE, NITK, Surathkal on 14-03-2025 to 15-03-2025, under the project Information Security Education and Awareness(ISEA)-Phase III.
- Mukesh M has participated in the "Hack the Cosmos Hackathon", held on 21st-22nd April 2025, organised by Computer Society of India SRM-KTR SB at SRMIST, Kattankulathur.
- Yatheesh K V from VI semester participated and presented a research paper titled "Dashboard for Swacchta Using AI Based Image Analysis" at the 8th Two- Day International Research Conference on " Entrepreneurship and Innovation" held on 4th & 5th April 2025, organized by MET Institute of Management in collaboration with the College of Business Administration(CBA), Ajman University, UAE.
- Sarthak Biradar participated in the 2025 Statewide Engineering IT Quiz " TCS TechBytes" an inter-college quiz on it , organised by TATA Consultancy Services and Board for IT Education Standards, Govt. of Karnataka.

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STUDENT ACHIEVEMENTS

CERTIFICATIONS

- Aathmika S Shetty from IV semester successfully completed the certificate course 'Creative Thinking' conducted by INFOSYS on 31.01.2025.
- Aathmika S Shetty from IV semester successfully completed the certificate course 'Handling Arrays in C Programming' conducted by INFOSYS on 02.02.2025.
- Rolwin Melron Dsouza from VI semester successfully completed the certificate course 'Git Test' conducted by IIT BOMBAY on 15.04.2025.
- M Sooraj Shenoy from VI semester successfully completed the certificate course 'Git Test' conducted by IIT BOMBAY on 15.04.2025.
- Ankitha Shanbhag from IV semester successfully completed the certificate course 'Advanced CPP' conducted by IIT BOMBAY on 23.04.2025.
- BHUVAN J J from IV semester successfully completed the 4 week (Jan-Feb 2025) NPTEL certificate course 'Python for Data Science' conducted by IIT MADRAS,

- Aathmika S Shetty from IV semester successfully completed the certificate course 'Advanced CPP' conducted by IIT BOMBAY on 23.04.2025.
- Arpitha Kharvi from IV semester successfully completed the certificate course 'Advanced CPP' conducted by IIT BOMBAY on 23.04.2025.
- Ananya U from IV semester successfully completed the certificate course 'Advanced CPP' conducted by IIT BOMBAY on 23.04.2025.
- Denzil Serrao from VI semester successfully completed the certificate course 'AWS S3 Basics' conducted by COURSERA on 13.06.2025.
- JASMITH K P from IV semester successfully completed the 4 week (Jan-Feb 2025) NPTEL certificate course 'Python for Data Science' conducted by IIT MADRAS,

CULTURAL

- Samruddhi Pai participated in the event "Echo of the Cosmos" under the category "Solo Singing" at the National Level. The event was organized by Yukti-2025 and held at VTU, Belagavi on 20th February 2025.
- Samruddhi Pai participated in the event "Echo of the Cosmos" under the category "Group Singing" at the National Level. The event was organized by Yukti-2025 and held at VTU, Belagavi on 20th February 2025.

- Sathwik Krishna participated in the event "Treasure Hunt" under the category "Tresure Hunt" at the National Level. The event was organized by Yukti-2025 and held at VTU, Belagavi on 21st February 2025.
- Prarthana participated in the event "Eastern Group Dance" under the category "Cultural, Technical and Management Fest" at the Intercollegiate level. The event was organized by MITE, Mangaluru and held at MITE, Mangaluru from March 4 to May 4, 2025.

PATENTS

On publication of Patent titled "AI based Acoustic Wave Monitoring of Rail Wear, Quality Along with Other Parameter"

Dr. Basappa B Kodada
Professor, Dept. of AIML

Mr. Pratham R
Ms. Shreya M
Mr. Sidharth K
Ms. Jayashree A R

On publication of Patent titled "CookCommander - An IoT-Based Robust Stove Control System"

Dr. Basappa B Kodada
Professor, Dept. of AIML

Ms. Shreelakshmi R Hegde
Ms. Komal Naik
Mr. Siddarth Kini Ullal
Mr. Jagat Pal

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STUDENT ACHIEVEMENTS

On publication of Patent titled "AI Based Road Inspection System"

Mr. Deepak D
Assistant Professor, Dept. of AIML

Ms. Akshata Krishna Hegde
Ms. Abhijna
Ms. Karishma B
Mr. Shriram Udaya Kumar Shenoy

On publication of Patent titled "Smart Bin Incentives System"

Mr. Kiran Ankalakoti
Assistant Professor, Dept. of AIML

Mr. Abhishek Sudesh Naik
Mr. Manish Anandu Naik
Mr. Karthik Ravi Achari
Mr. Tejas Suresh Tandel

On publication of Patent titled
"Artificial Intelligence for Smart Agriculture"

Mr. Nithin Kurup U G
Assistant Professor, Dept. of AIML

Ms. Chitra
Mr. Akshay M
Ms. Karishma K
Mr. Nithin Kamath

On publication of Patent titled "Dashboard for Swacchta Using
Artificial Intelligence-Based Image Analysis"

Mr. Divyesh Divakar
Assistant Professor, Dept. of AIML

Mr. M Sooraj Shenoy
Mr. Denzil Serrao
Mr. Yatheesha K V
Mr. Karthik Baliga

On publication of Patent titled "UAV Assisted Waste
Segregation for Urban Areas"

Mr. Divyesh Divakar
Assistant Professor, Dept. of AIML

Mr. Mehul muralidhar kini
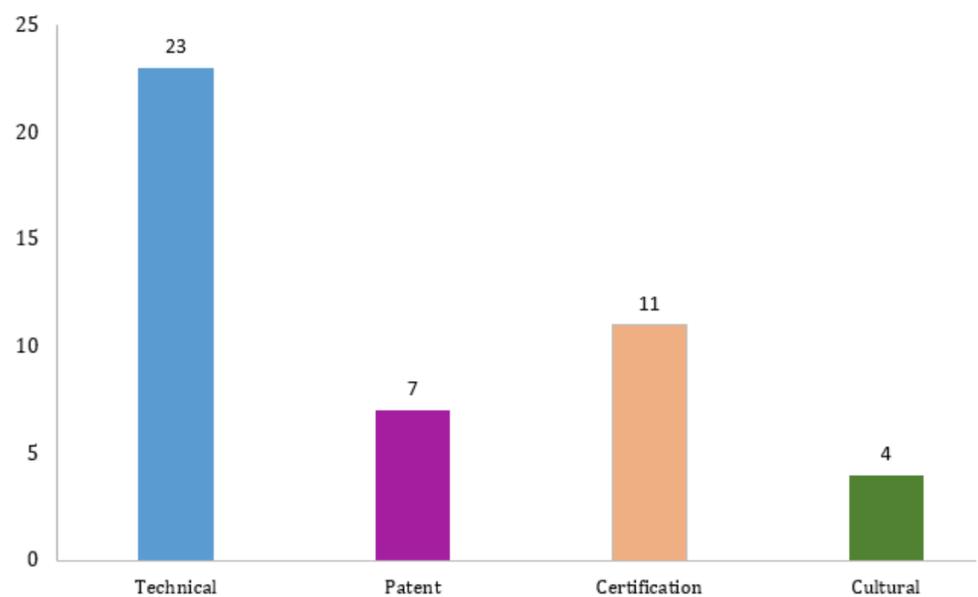Mr. Anoop S Prabhu K
Mr. Shashank S
Ms. M Akhila Prabhu
Mr. Sarthak Pramod Pai
Mr. Sharan Raghveer Pai

Student Achievements

Category	Count
Technical	23
Patent	7
Certification	11
Cultural	4

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WORKSHOP/PAPER PRESENTATION/SEMINAR CONDUCTED

Flutter Development (19-02-2025 to 14-05-2025)

The Department of AI & ML, in collaboration with the Design Club of Canara Engineering College, organized hands-on Flutter development sessions to equip students with mobile app development skills. Starting on February 19, 2025, students explored Flutter basics, followed by advanced topics like State Management, Firebase Authentication, and Animations. A two-day workshop in March covered Material UI, API/database integration, and mini projects. Led by student experts under Prof. Arjun K's guidance, the sessions emphasized building scalable apps with enhanced UI/UX. Over 33 students participated, gaining practical experience and a solid foundation in cross-platform app development.

Ideathon (28-02-2025)

The AIML and CSE departments of Canara Engineering College jointly organized **Ideathon** 2025 on 28th February, fostering innovation and creativity among students. Seventy teams presented ideas in IoT, Mobile, and Web Development focused on agriculture and healthcare. After two competitive rounds, the top 10 teams advanced to the upcoming Aakriti 2025 Hackathon. Standout ideas included Indian Sign Language Translation, Futura Watch, and Agri Connect. Guest speaker Mr. Akash M, entrepreneur and senior software engineer, shared insights on startups and innovation. Coordinated by Divyesh Divakar (AIML), the event earned praise for its high level of problem-solving and technical excellence.

Think Like a Machine : A Hands-On ML Workshop (05-03-2025 &12-03-2025)

The Department of AI & ML conducted two successful sessions of the "Think Like a Machine: A Hands-On ML Workshop" for IV semester A and B sections, led by Mr. Deepak D and coordinated by Mr. Kiran Ankalakoti. With 115 students participating, the workshop offered practical exposure to core ML concepts, including data preprocessing, model training, and evaluation through interactive coding. Mr. Deepak shared industry insights and real-world use cases, fostering critical thinking and problem-solving. Students actively engaged in discussions, exploring ML challenges and deepening their understanding, effectively bridging theory and practice while sparking interest in advanced AI technologies.

Basics of Frontend Development Using HTML & CSS (19-03-2025)

The Department of AI & ML, in collaboration with the Design Club of Canara Engineering College, organized a two-hour hands-on session on **"Basics of Frontend Development Using HTML & CSS"** on March 19, 2025. Led by Ms. Abheesta, a 3rd-year CSE student, and coordinated by Mr. Arjun K., the session covered HTML, CSS, semantic tags, selectors, and responsive design. Through interactive learning and practical implementation, participants built a basic webpage and strengthened their web development skills. A total of 32 students actively took part, gaining valuable foundational knowledge in frontend technologies.

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Mastering Technical Report Writing using LaTeX (19-03-2025)

The **"Mastering Technical Report Writing using LaTeX"** workshop was conducted for VI and IV semester AIML students, with Dr. Sujatha M as the resource person. Coordinated by Dr. Dhananjaya G M, Associate Professor, the session provided a solid foundation in LaTeX for professional documentation. Through hands-on exercises and interactive sessions, 29 students explored document structuring, equations, tables, figures, and reference management. Dr. Sujatha also shared best practices for effective technical writing. Students gained practical experience using LaTeX tools and platforms, making the session enriching and skill-enhancing. Prof. Basappa B. Kodada is the HoD of the AIML department.

Getting Started with Javascript (16-04-2025)

The Department of AI & ML, in collaboration with the Design Club of Canara Engineering College, conducted a two-hour hands-on session on **"Getting Started with JavaScript"** on April 16, 2025. Led by Ms. Ananya Bhat, a 2nd-year CSE student, and coordinated by Prof. Arjun K., the session introduced 15 participants to JavaScript fundamentals and advanced concepts. Topics included syntax, variables, data types, functions, control structures, DOM manipulation, and event handling. The interactive session aimed to build a strong foundation in JavaScript for aspiring web developers. It was well-received and offered a valuable, practical learning experience for all attendees.

Introduction to Progressive Web Apps (07-05-2025)

The Department of AI & ML, in collaboration with the Design Club of Canara Engineering College, conducted a two-hour hands-on session on **"Introduction to Progressive Web Apps"** on May 7, 2025. Led by Ms. Akriti S Shetty, a 2nd-year CSBS student, and coordinated by Prof. Arjun K., the session introduced 33 students to the fundamentals of web applications, focusing on scalability, responsiveness, and user interaction. Participants learned to build basic web apps, manage user inputs, and design intuitive interfaces through live exercises and practical demos. The session offered valuable insights into creating functional, interactive web experiences.

Workshop on Large Language Models (LLM)- GenAI (09-05-2025)

The Department of Artificial Intelligence and Machine Learning organized a two-day hands-on workshop on **Large Language Models (LLMs) – GenAI**, exclusively for AIML students. The workshop aimed to provide practical experience in building and fine-tuning LLMs through a project-based approach. Students participated in real-time exercises and collaborative projects, gaining insights into LLM architecture, training processes, and applications. The sessions enhanced their understanding of generative AI and equipped them with essential skills relevant to today's AI landscape. The workshop fostered experiential learning, encouraging innovation and deepening participants' knowledge of cutting-edge advancements in AI and machine learning.

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UI/UX Fundamentals (14-05-2025)

The Department of AI & ML, in collaboration with the Design Club of Canara Engineering College, organized a hands-on session on **"UI/UX Fundamentals"** led by Ms. Gauthami (3rd year CSBS) under the guidance of Mr. Arjun K. The session introduced 18 participants to core UI/UX principles, emphasizing the importance of intuitive, functional, and visually appealing design. Through interactive discussions, real-world examples, and design exercises, students explored usability evaluation and the impact of design on user behavior. The activity fostered critical thinking and provided a strong foundation in creating engaging and effective digital interfaces.

Project Management using GitHub (14-05-2025)

The Department of AI & ML organized a hands-on session on **Project management using GitHub** for 6th semester AIML students. Held at 2:00 PM in LH-303, the session was conducted by Mr. Denzil Serrao, a 3rd-year AIML student, and coordinated by Mr. Siju V Soman, Assistant Professor. Designed as a peer-to-peer learning experience, the session aimed to equip students with essential GitHub skills for effective project management. It provided practical exposure to version control, collaboration, and repository management—key competencies beneficial for academic projects and upcoming placement drives. Students actively participated, gaining valuable hands-on experience.

Inauguration of Artificial Intelligence Students' Chapter (17-05-2025)

The Department of AI & ML at Canara Engineering College proudly inaugurated the AI Students Chapter, aiming to build a strong community of learners, innovators, and future AI professionals. The launch event, graced by Chief Guest and Principal Dr. Nagesh H. R., emphasized the growing relevance of AI. Prof. Basappa B. Kodada, HoD, reaffirmed the department's support for student-driven initiatives. Faculty Advisor Mr. Deepak D., Student President Mr. Aashay Shetty, faculty, and enthusiastic students contributed to a vibrant and inspiring beginning, marking a significant step toward promoting knowledge, skills, and collaboration in AI, ML, and data science.

Udaan-Farewell to first batch of AIML (17-05-2025)

The Department of AIML at CEC hosted Udaan on 17th May 2025—a heartfelt farewell for its first graduating batch—at the EC Seminar Hall. The event featured addresses by Principal Dr. Nagesh H. R. and HoD Dr. Basappa B. Kodada, along with the inauguration of the AI Student Chapter. Faculty Advisor Mr. Deepak D. and Student President Mr. Ashay Shetty also spoke. Highlights included a prayer by Ms. Bhagyashree Udupa, emceeing by Ms. Hiba Haleema, and a vote of thanks by Ms. Disha Suraj Kallya. Coordinated by Mrs. Supriya A. V., the event blended emotion, joy, and vibrant student participation.

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"Mob-App Development using Flutter" (06-03-2025 to 08-03-2025)

The Department of AIML organized a Three-Day Faculty Development Program on "Mob-App Development using Flutter" from 6th to 8th March 2025 at the Skill Lab. The sessions were conducted by Mr. Charan K, Junior Software Engineer, EG India Pvt Ltd, Mangaluru. The FDP focused on Flutter fundamentals, UI design, state management, and API integration. Faculty members gained hands-on experience in building mobile apps. The event was coordinated by Mr. Arjun K, Assistant Professor, AIML. Participants appreciated the interactive and practical approach of the sessions.

"Teach machines to learn— but never stop being a student yourself"

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