CANARA ENGINEERING COLLEGE

2024, VOLUME III , ISSUE II

DARPANA

NEWS LETTER FROM **CANARA ENGINEERING COLLEGE**

Highlights

- *Mathematics for Machine Learning*
- *Student Achievement*
- *NPTEL/Coursera*
- *Staff Achievement*
- *Workshop on Machine Learning*
- *GearUP*
- *Workshop on IoT*
- *MERN Stack Series*

Department of Artificial Intelligence and Machine Learning

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

Ms. Abhijna V N
4CB23AI005

Mr. Karthik H V
4CB23AI039

Mr. Pratheek Kini
4CB23AI071

Ms. Sanjana Mahale
4CB23AI087

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 set-up industry-institute interface for overall development of students through practical internship and team work activities.
- To promote innovation and start-up culture among staff and students for addressing the challenges of needy.

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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

Mrs. Kanmani
Assistant Professor

Mr. Siju V. Soman
Assistant Professor

Mr. Deepak D.
Assistant Professor

Mr. Nagaraj Gadagin
Assistant Professor

Mr. Arjun K
Assistant Professsor

Mr. Nithin Kurup U.G.
Assistant Professor

Mrs. Supriya A. V.
Assistant Professor

Mr. Divyesh Divakar
Assistant Professor

Mr. Kiran Ankalakoti
Assistant Professor

Mr. Praveen T. Damble
Foreman

Mrs. Sowmya D.
Lab Instructor

Mrs. Geetha
Lab Instructor

Ms. Navyashree
Programmer

Ms. Swathi
Programmer

AIML	Male	Female	Total
Faculty	08	03	**11**
Staff	01	04	**05**
Student (II Year)	58	70	**128**
Student (III Year)	42	21	**63**
Student (IV Year)	27	36	**63**

STAFF ACHIEVEMENTS

ACHIEVEMENTS / AWARDS / RECOGNITIONS

Dr. Basappa B Kodada

- **Dr. Basappa B Kodada,** contributed as a judge for the Technical Paper Presentation during the Convention held on Friday, September 27, 2024 at Karnataka (Govt.) Polytechnic, Mangaluru.
- Session chair for "International Conference on responsible AI" held at Mangalore University, Mangalore on 16 December 2024.

Dr. Sujatha M.

Dr. Sujatha M., Associate Professor, Canara Engineering College, Bantwal Taluk, Mangaluru, has delivered a technical talk with hands-on "Feed Forward Neural Networks ", on 3rd July 2024 Wednesday from 12:00PM — 1:30PM as part of 5 Day Short-Term Training Program on "Applications of Deep Learning in Multidisciplinary Area" held at Information Technology Department, National Institute of Technology, Karnataka, Surathkal-5 75025 from 1st — 5th July 2024.

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

Dr. Basappa B Kodada

- Published a paper titled " Finite State Automata Based Cryptosystem for Secure Data Sharing and De-duplication in Cloud Computing. SN COMPUT. SCI. 5, 774 (2024). https://doi.org/10.1007/s42979-024-03101-y
- Participated in webinar titled "FutureED with AI" hosted by Future.Ed, IIT Mandi on 25th July 2024.

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

Dr. Sujatha M.

- Successfully participated in the Five Days Online Faculty Development Programme On "Quantum Computing : Algorithms and Applications" organised by Department of Computer Science and Engineering, NIT Warangal, in association with CTL, NIT Warangal from 15th July 2024 to 19th July 2024.
- Delivered a technical talk on "Professional Report and Article Writing using LaTeX ", on 15th November 2024 at CEC, Benjanpadavu.
- Reviewer for 2024 IEEE International Conference on Computing, Semiconductor, Mechatronics, Intelligent Systems and Communications, held from 22 - 23 November 2024

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

Kanmani

- Participated and presented a paper titled "Machine Learning in Academic Performance Prediction: Analyzing Attendance and Marks to Forecast Future Results", in IEEE International Conference COSMIC 2024 , at Sahyadri College of Engineering and Management, Mangaluru during 22 to 23rd November 2024
- Participated in the Three Days Faculty Development Programme On "Quantum Computing" organised by Department of ISE, CEC, Benjanapadavu from 22nd August 2024 to 24th August 2024.

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

Siju V Soman

- Successfully completed NPTEL online workshop on "Unboxing GenAI with LLM: A Walkthrough of different AI models and usage of LLM", on 27-07-2024
- Published a paper titled "A hybrid approach to context based human activity recognition in smart environment using ResBi-LSTM". Intelligent Buildings International, 1–17. https://doi.org/10.1080/17508975.2024.2437421

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

Deepak D.

- Published a paper titled "Advancements in Automated Livestock Monitoring: A Concise Review of Deep Learning-Based Cattle Activity Recognition," 2024 10th International Conference on Advanced Computing and Communication Systems (ICACCS), Coimbatore, India, 2024, pp. 321-327, doi: 10.1109/ICACCS60874.2024.10717327.
- Participated and presented a paper titled "Optimizing Cattle Detection in Smart Farming Using YOLO and Attention Mechanisms", in 9th International Conference on Information and Communication Technology for Competitive Strategies (ICTCS 2024) , on 19th to 21st December 2024, held at Global Knowledge Research Foundation & G R Scholastic LLP, Jaipur, Rajasthan, India.
- Successfully participated in the Five Days National Level Faculty Development Programme On "EXPLORING COMPUTATIONAL INTELLIGENCE (ONLINE)" organised by School of Computer Science and Engineering, VIT-AP University, Amaravati from 16th July 2024 to 20th July 2024.
- Participated in the Short Term Training Program on "Generative AI and the Future of Work" organised by School of Computer Science and Engineering, Reva University, Bengaluru from 22nd July 2024 to 26th July 2024.
- Successfully participated in Participated in 10 Hours International Faculty Development Program on Machine Learning and Artificial Intelligence organized by Pimpri Chinchwad College of Engineering and Research, Ravet, Pune – Maharashtra, Sri Venkateswara Degree College, Kadapa - Andhra Pradesh,SJB Institute of Technology, Bangalore – Karnataka and Sri Indu PG College, Hyderabad – Telangana in Collaboration with ExcelR Edtech Pvt. Ltd. from 12th Aug to 19th Aug 2024.
- Participated in 5 Days International Faculty Development Program on Gen-AI and Prompt Engineering Using Microsoft Co-Pilot organized by BNM Institute of Technology Bangalore (BNMIT) – Karnataka, D.Y. Patil Agriculture and Technical University Talsande – Maharashtra, and Marwadi University Rajkot - Gujarat in Collaboration with ExcelR Edtech Pvt. Ltd. from 16th Sep to 20th Sep 2024.

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

Nagaraj Gadagin

- Completed a one-week Faculty Development Programme on "Use of AI Tools in Research & Publications," organized by the Department of CSE and Research & Development Cell at V. P. Dr. P. G. Halakatti College of Engineering and Technology, Vijayapur, from September 9 to 13, 2024. Additionally,
- Published a paper titled "Harnessing Data Science for Healthy Herds: Deep Learning for Cattle Disease Detection," 2024 IEEE North Karnataka Subsection Flagship International Conference (NKCon), Bagalkote, India, 2024, pp. 1-6, doi: 10.1109/NKCon62728.2024.10774770

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

Nithin Kurup U G

- Published a paper titled "Seamless Attendance Monitoring with Face Recognition and RFID Technology," 2024 IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER), Mangalore, India, 2024, pp. 440-444, doi: 10.1109/DISCOVER62353.2024.10750690.

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

Supriya A V.

- Participated in the Three Days Faculty Development Programme On "Quantum Computing" organised by Department of ISE, CEC, Benjanapadavu from 22nd August 2024 to 24th August 2024.
- Successfully participated in the Five Days Online Faculty Development Programme On "Quantum Computing : Algorithms and Applications" organised by Department of Computer Science and Engineering, NIT Warangal, in association with CTL, NIT Warangal from 15th July 2024 to 19th July 2024.

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

Divyesh Divakar

- Presented a paper "Safe Fly Prediction Model for Unmanned Aerial Vehicle" at the IEEE International Conference COSMIC 2024, held at Sahyadri College of Engineering and Management, Mangaluru, on November 22-23, 2024.
- Attended a three-day Faculty Development Programme on "Quantum Computing" at CEC, Benjanapadavu, from August 22 to 24, 2024.

NPTEL ONLINE COURSES

- **Dr. Sujatha M.** has successfully completed R Programming Fundamentals course from Infosys Springboard on August 17th, 2024.
- Has successfully completed Introduction to PHP Programming course from Infosys Springboard on August 18th, 2024.

- **Kanmani** has successfully completed NPTEL course "Introduction to Quantum Computing: Quantum Algorithms and Qiskit " from July-August 2024.

- **Siju V Soman** has successfully completed Work-life Balance course from Infosys Springboard on August 2, 2024.

- **Supriya A. V.** has successfully completed NPTEL course "Introduction to Quantum Computing: Quantum Algorithms and Qiskit " from July-August 2024.

- **Divyesh Divakar** has successfully completed NPTEL course "Introduction to Quantum Computing: Quantum Algorithms and Qiskit " from July-August 2024.
- Successfully completed NPTEL course "Deep Learning for Computer Vision " from July-October 2024.

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STUDENT ACHIEVEMENTS

ACADEMIC ACHIEVERS

VI SEM

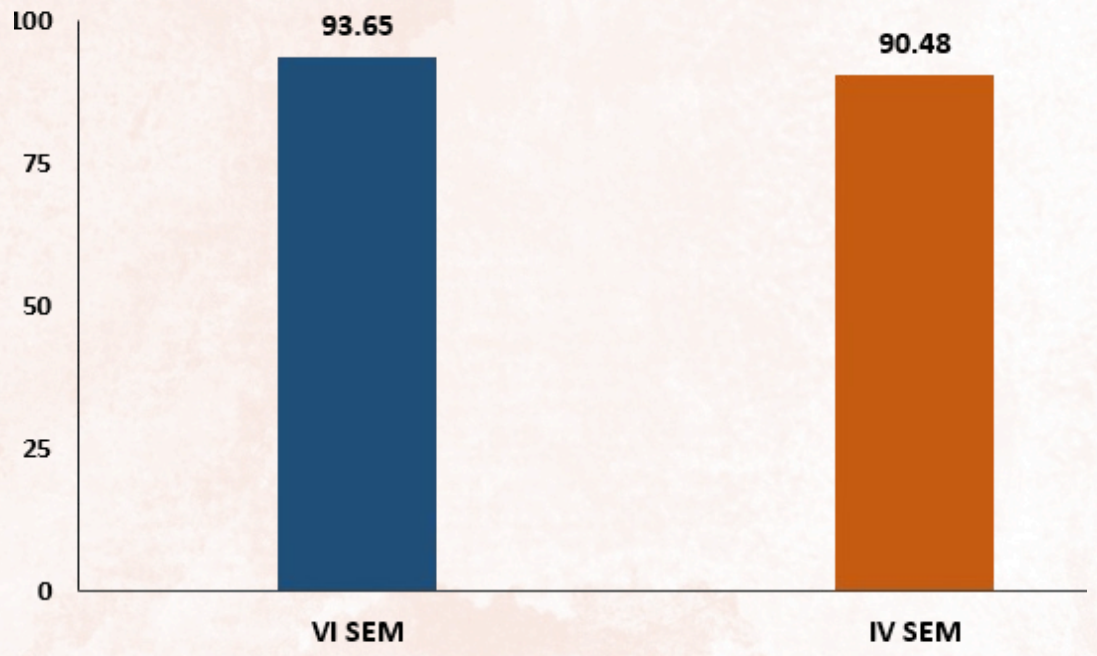
Ashay Shetty
4CB21AI006
SGPA 9.27

Pallavi
4CB21AI025
SGPA 9.14

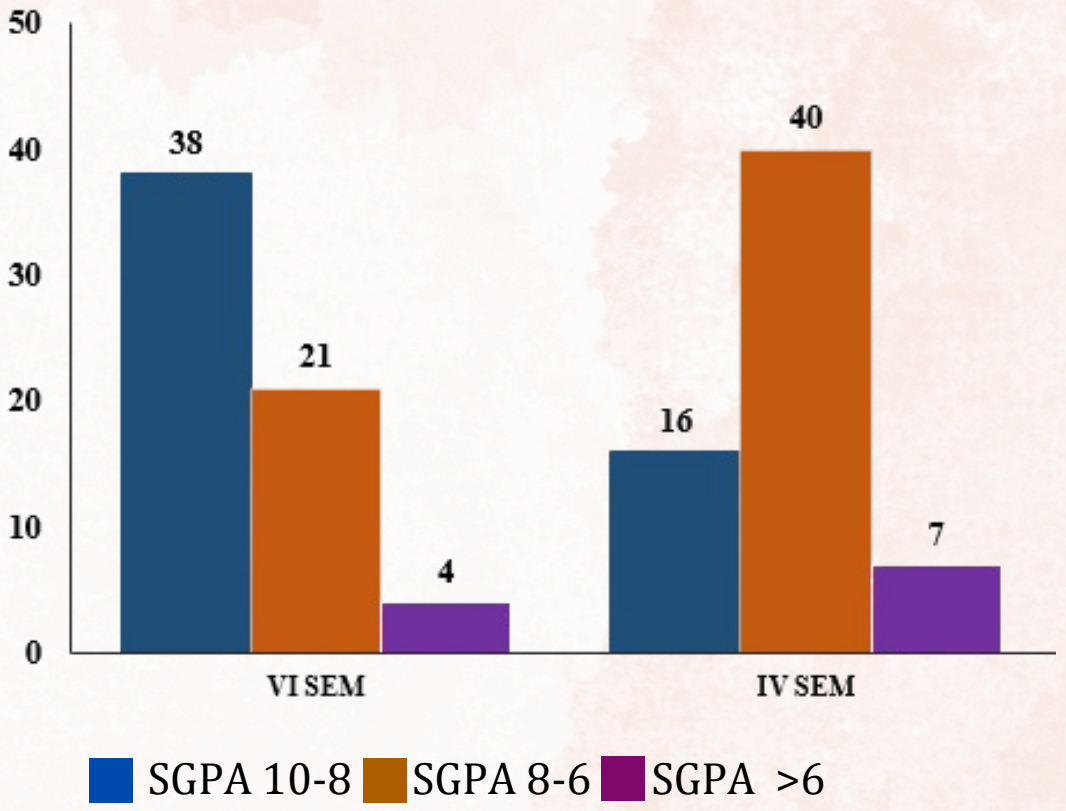
Vaidoorya Padiyar
4CB21AI057
SGPA 9.14

Deeksha Divakar
4CB21AI010
SGPA 9.00

Pass Percentage



Result Analysis

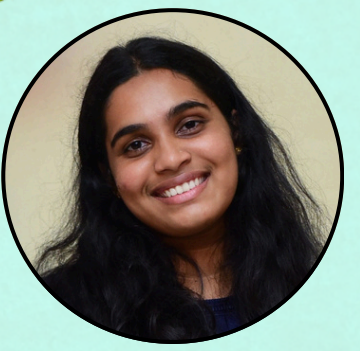


IV SEM

Karishma B
4CB22AI024
SGPA 8.79

Shree Lakshmi
4CB22AI052
SGPA 8.63

Sharan
4CB21AI051
SGPA 8.58



Charithra G Ganiga
4CB21AI010
SGPA 9.00

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STUDENT ACHIEVEMENTS

TECHNICAL EVENTS

- Denzil Serraro (4CB22AI016), has participated in CodeCrafter-TechX2024 event organized by Comedkares Innovation Hub, Mangalore, on 6th July 2024.
- Anoop S Prabhu K (4CB21AI004), has participated in "amBITion24", organized by Bangalore Institute of Technology, on 7th July 2024.
- Sharan Raghuveer Pai (4CB21AI040), has participated in "amBITion24", organized by Bangalore Institute of Technology, on 7th July 2024.
- Kini Mehul Muralidhar (4CB21AI015) has participated in "amBITion24", organized by Bangalore Institute of Technology, on 7th July 2024.
- Sarthak P Pai (4CB21AI036), has participated in "amBITion24", organized by Bangalore Institute of Technology, on 7th July 2024.
- M Rahul Bhat (4CB21AI018), has participated in "amBITion24", organized by Bangalore Institute of Technology, on 7th July 2024.
- Srisha (4CB21AI047), has participated in a certificate program on "AI,Machine Learning, Deep Learning,Computer Vission, NLP & Chat GPT With Python" , organized by IIT, Madras in association with EduxLabs(Esoir Business Solution LLP) on 8th July 2024.
- Pratheeksha J (4CB23AI072), has actively participated in codemeet 2024, the 24 - hour hackthon conducted at Srinivas Institue of Engineering & Technology, Mukka, on 20th October 2024.
- Pratheek Prakssh Kini (4CB23AI071), has actively participated in codemeet 2024, the 24 - hour hackthon conducted at Srinivas Institue of Engineering & Technology, Mukka, on 20th October 2024.
- Shipali B. Shetty (4CB23AI096), has actively participated in codemeet 2024, the 24 - hour hackthon conducted at Srinivas Institue of Engineering & Technology, Mukka, on 20th October 2024.
- Megha (4CB23AI055), has actively participated in codemeet 2024, the 24 - hour hackthon conducted at Srinivas Institue of Engineering & Technology, Mukka, on 20th October 2024.
- Likhitha (4CB23AI048), has actively participated in codemeet 2024, the 24 - hour hackthon conducted at Srinivas Institue of Engineering & Technology, Mukka, on 20th October 2024.
- Keerthana (4CB23AI044), has actively participated in codemeet 2024, the 24 - hour hackthon conducted at Srinivas Institue of Engineering & Technology, Mukka, on 20th October 2024.
- Madhushree (4CB23AI050), has actively participated in codemeet 2024, the 24 - hour hackthon conducted at Srinivas Institue of Engineering & Technology, Mukka, on 20th October 2024.
- Prajwalkumar Gangaram Kale (4CB23AI068), Participated in the competion "Data Unleashed:AI,ML & Beyond!" at NITK Surathkal sponsored by Warrier H. E.A.R.T. Hub for the project "AquaWISE", organized by Dept.of Water resources & Ocean Engineering and Dept.of Computer Science Engineering, NITK Surathkal on 26th October 2024.
- Prajwalkumar Kale (4CB23AI068), Participated in the "Innovation, Design and Entrepreneurship(IDE) Bootcamp" from 23rd to 27th September 2024 at NITK Surathkal organized by AICTE & Ministry of Education's Innovation Cell(MIC).
- Sagar Tamse Participated at the National Level Photography Contest organized by Snap India(Online) on 25th November 2024.
- Prajwalkumar Kale (4CB23AI068), Participated in the competion "Data Unleashed:AI,ML & Beyond!" at NITK Surathkal sponsored by Warrier H. E.A.R.T. Hub for the project "AquaWISE", organized by Dept.of Water resources & Ocean Engineering and Dept.of Computer Science Engineering, NITK Surathkal on 26th October 2024.
- Prajwalkumar Kale (4CB23AI068), Participated in the "Innovation, Design and Entrepreneurship(IDE) Bootcamp" from 23rd to 27th September 2024 at NITK Surathkal organized by AICTE & Ministry of Education's Innovation Cell(MIC).
- Sagar Tamse (4CB23AI083) Participated at the National Level Photography Contest organized by Snap India(Online) on 25th November 2024.
- Pratheek Prakssh Kini (4CB23AI071), has successfully completed the coursera online course on "Google Data Analytics" of 8-Weeks duration , on 12th December 2024.
- Devashree (4CB23AI027), has participated in the Qualifier Round of "Maria Philip Future Leaders Debate Competition 2024 -25", on the the topic 'AI & Automation Will Lead to Mass Unemployment' organized by Xavier Institute of Management & Entrepreneurship, Bangalore on 28th October 2024.
- P Swathi (4CB23AI065), has participated in UMANG 3.0- Making India Addiction free held on 30th November, 2024 by ISKCON Kudupu Katte, Mangalore and Ministry of Social Justice and Empowerment.

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WORKSHOP/PAPER PRESENTATION/SEMINAR CONDUCTED

A Talk on Time Management (01-07-2024)

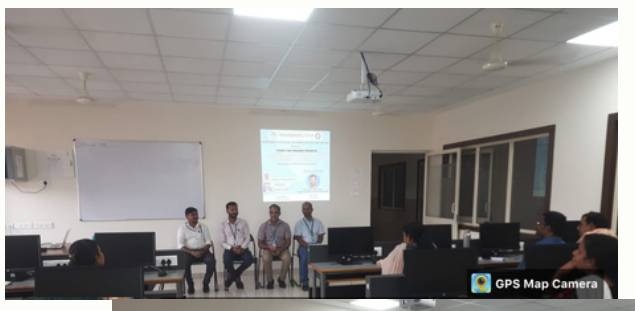
On July 1, 2024, the Artificial Intelligence and Machine Learning Department organized a time management talk specifically for second-year students who expressed difficulties in managing their responsibilities. The session featured Ms. Sandhya Poojary, Assistant Professor and Counsellor at Canara Engineering College, as the resource person. She engaged students in a group activity to explore various time management techniques. The talk was convened by Mr. Siju V Soman, Assistant Professor in the department, and attracted a total of 50 attendees.

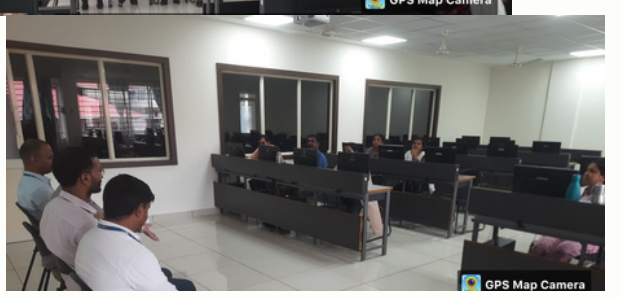
A Talk on Stress Management (02-07-2024)

Stress management is essential for students, who face pressures like academic demands, social challenges, and concerns about their future careers. Effective stress management strategies help students maintain their well-being, boost focus, and navigate academic and personal challenges more effectively. By adopting techniques like mindfulness and time management, students can enhance their resilience, improve performance, and lead a more balanced, successful student life while preparing for future endeavors.

Faculty Skill Enrichment Program (03-07-2024)

This program offers an introduction to the mathematical concepts essential for building common machine learning techniques. It aims to enhance the skill set of faculty members by providing a strong foundation in mathematics. The sessions will cover topics such as linear algebra, calculus (including derivatives and gradients), neural networks, and the role of gradients in deep networks. Additionally, participants will learn about backpropagation and its application in machine learning. The program is scheduled to take place on 03-07-2024 for mathematical concepts and 10-07-2024 for a practical example of backpropagation in machine learning.





Opportunities and Preparation Guidelines for GATE (03-07-2024)

The "Opportunities and Preparation Guidelines for GATE" event at Canara Engineering College attracted 100 third-year AIML and CSBS students. The session provided a comprehensive overview of the Graduate Aptitude Test in Engineering (GATE), emphasizing its importance for higher education and career prospects. Expert speakers shared insights on study strategies, time management, and resource utilization. Interactive discussions reinforced the need for continuous learning and staying updated on advancements in the field, equipping students with the tools for GATE success.

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WORKSHOP/PAPER PRESENTATION/SEMINAR CONDUCTED

Internet of Things (08-07-2024)

The program began with an introduction to IoT and a detailed overview of the ESP32 ESP-WROOM-32-devkit V1 board, including its hardware features and pinout reference. Participants learned to program the ESP32 using various IDEs, including MicroPython, and gained hands-on experience flashing and uploading MicroPython firmware to the board. They also engaged in practical projects using the ESP32 with both the Arduino IDE and MicroPython. The program also covered an overview of Python programming, focusing on machine learning-based prediction using numerical data and string data analysis. Finally, participants showcased their knowledge through hands-on projects led by students.

Problem Solving through C Foundation – Series 1-7 (18-09-2024 to 27-11-2024)

The Department of Artificial Intelligence and Machine Learning (AIML) conducted Series 1 -7 of a Problem-Solving Through C Foundation from 18th September 2024 to 27th November 2024,for III-semester students. The workshop focused on essential concepts like variables, data types, and input/output operations, covering topics such as data types, variables , operators, control structures,arrays,strings,functions and pointers. The serieses were led by resource persons Dr. Sujatha M, Mr. Nithin Kurup U G, Dr. Basappa B Kodada, Mr. Siju V Soman, Mr. Deepak D Mr. Kiran Ankalakoti and Mr. Nagaraj gadagin. The series fostered active student engagement and curiosity about advanced programming concepts. Overall, the session strengthened foundational programming knowledge and prepared students for complex applications in C programming. This series was coordinated by Mr. Deepak D.

MERN Stack Series -1 (25-09-2024)

The Department of Artificial Intelligence and Machine Learning, in collaboration with the Design Club, conducted an insightful session on "Introduction to Web Development." This session provided a comprehensive overview of web development, guiding participants through the fundamentals of HTML, CSS, and JavaScript. Attendees learned how to structure web pages using HTML, style them with CSS, and add interactivity with JavaScript. The session was led by Mr. Nishal N Thingalaya, a 4th-year CSE student, and saw enthusiastic participation from 17 students.

GearUP (03-10-2024)

The Department of Artificial Intelligence and Machine Learning organized "GearUp" - A special event for all students of the department on 3rd October 2024. Dr. Demian D'Mello, Vice Principal inaugurated the event. Dr. Udaya Kimar Shenoy, Dean R&D and HoD Computer Science and Engineering delivered motivational talk on "My life and my career". The blend of technical challenges with fun games created a vibrant atmosphere, encouraging learning and teamwork in an enjoyable way. The event was coordinated by Mr. Divyesh Divakar, Asst Prof.

WORKSHOP/PAPER PRESENTATION/SEMINAR CONDUCTED

Unlocking the Basics of Machine Learning (15-10-2024)

The Department of Artificial Intelligence & Machine Learning at Canara Engineering College successfully conducted a two-day workshop on "Unlocking the Basics of Machine Learning" on 15th and 16th October 2024. Organized in collaboration with Accolade Tech Solutions Pvt. Ltd., the event aimed to provide hands-on experience in machine learning. Mr. Harish Neermarga, Founder and MD of Accolade Tech Solutions, led insightful sessions covering data preprocessing, model building, and evaluation. The workshop received excellent feedback for its interactive approach and practical focus. The department expresses gratitude to Mr. Harish and looks forward to future events supporting student skill development.

Internet of Things-Problems to Proof of concept (23-10-2024)

The "Internet of Things - Problems to Proof of Concept" workshop, held from October 23-25, 2024, was organized by the Artificial Intelligence and Machine Learning department, benefiting 129 students. Led by Mr. Gopala Krishna Bhat and supported by three trainers, the workshop covered key IoT topics, including sensor integration, ESP32 circuits, cloud data uploading, and MicroPython programming. On the final day, 30 student batches showcased their innovative IoT-based projects in a mini-project exhibition, applying their learning to real-world scenarios. The hands-on workshop fostered creativity, teamwork, and practical problem-solving, receiving positive feedback for its success in advancing technical skills.

Ayudha Pooja Celebration (26-10-2024)

Ayudha Pooja was celebrated in the Department of Artificial Intelligence & Machine Learning as part of Dussehra, seeking the divine blessings of Lord Saraswati for prosperity. The faculty, staff, and students of the department organized a Mandap with flowers and offerings as prasada. A pandit visited the AIL-02 (Machine Learning Lab) to perform the pooja, praying for the department's continued success, including increased admissions and placements. The celebration fostered a positive and prosperous environment, bringing together all stakeholders to seek blessings for the department's growth and success in the future.

WORKSHOP/PAPER PRESENTATION/SEMINAR CONDUCTED

Branch Entry (26-10-2024)

The Branch Entry was organized by the Cultural & Arts Committee in CEC for the 3rd semester students at the Open Air Auditorium (Main Stage). Dr. Nagesh H.R Principal(CEC) inaugurated the event. Around 30 students participated in various events. The event concluded by around 5 PM with various cultural events like dance & skit.

Exposure Visit to Incubation Units and CoEs (15-11-2024)

The industrial visit to the MAHE-ISAC Centre of Excellence for Cybersecurity and the Manipal Universal Technology Business Incubator (MUTBI) offered second-year AIML students a unique opportunity to bridge theoretical knowledge with practical industry exposure. At the cybersecurity center, students explored advanced technologies in threat detection, ethical hacking, and incident response, gaining a comprehensive understanding of real-world cybersecurity challenges. The MUTBI visit emphasized the significance of entrepreneurship, showcasing how startups are nurtured through mentorship, funding, and innovation. Students engaged with professionals, observed live demonstrations, and learned about successful ventures. This experience inspired students to consider diverse career paths while highlighting the importance of both technical expertise and entrepreneurial thinking. Overall, the visit was highly educational and aligned with their academic and professional aspirations.

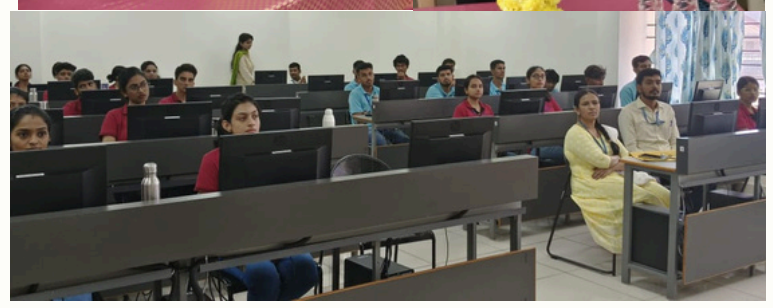
Industry Exposure & Field Visit (15-11-2024)

An Industrial Exposure & Field Visit to explore the emerging areas of Technologies was organized by Artificial Intelligence and Machine Learning Department for the third-year students on 15th November 2024 to Experion Technologies (India) Private Limited, Info Park, Kochi in association with IEEE Mangalore Subsection and IIC (Institution's Innovation Council). Experion Technologies, founded in 2006, is a Global Product Engineering Services company offering enterprises future-ready and transformative digital solutions. The organization's product engineering maestros work out of 3 development centers in India – Trivandrum, Kochi, and Bangalore, and 8 global offices across Europe, Asia-Pacific, and North America. The team from Experion Technologies gave a presentation on Artificial Intelligence with the help of real-life examples touching the concepts in line with Machine Learning and Exploratory Data Analysis. Mr. Siju V Soman, Assistant Professor (AI&ML) and Mrs. Babitha Ganesh Kulal, Assistant Professor (CSE) coordinated the visit with 49 students.

WORKSHOP/PAPER PRESENTATION/SEMINAR CONDUCTED

Mob-App Dvelopment using Flutter (22-11-2024)

Mr. Shashank S Mayya conducted an engaging workshop covering key topics in Flutter development. The sessions included an introduction to Flutter, exploring its basic components, building simple UIs, and developing apps using REST APIs. His expertise and interactive teaching style ensured that participants gained a solid understanding of Flutter's capabilities. The workshop was both informative and hands-on, allowing attendees to actively engage with the content and develop practical skills. Mr. Mayya's approach made complex concepts accessible, providing participants with valuable knowledge to kick-start their journey into mobile app development using Flutter.



Online Hands-On Workshop on Basics of Prompt Engineering (30-11-2024)

The Department of Artificial Intelligence and Machine Learning hosted a successful Online Hands-On Workshop on Basics of Prompt Engineering on 30th November 2024. Exclusively organized for third-year AI & ML and CS&BS students, the workshop attracted over 70 participants. Mr. Tasheer Hussain, Senior AI Engineer at DAMAC Properties, Dubai, led the session, sharing his expertise in Prompt Engineering, a key aspect of modern AI applications. Attendees gained practical skills in designing effective AI prompts. The event, coordinated by Mr. Divyesh Divakar, Assistant Professor, AIML Department, contributed to the department's ongoing efforts to provide students with advanced learning opportunities.

thank you