

Department OF AI & ML

DARPAANA



Volume: 02 Issue: 01



CANARA
ENGINEERING COLLEGE



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Dr. Basappa B Kodada
Associate Professor & HOD



Mr. Siju V Soman
Assistant Professor



Mrs. Sowmya D
Lab Instructor

STUDENT MEMBERS



Shashank S
4CB21AI041



Shivani K
4CB21AI042



Pratham R
4CB22AI040



Aashvi
4CB22AI001

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.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

1. Design and develop learning-based intelligent systems in the field of artificial intelligent, machine learning, and allied engineering sectors.
2. Apply skills and knowledge of computer science to address relevant industry and societal problems or pursue higher education and research
3. Graduates will design and deploy software that meets the needs of individuals and the industries
4. Engage in lifelong learning, career advancement and adoption of changing professional and societal needs.

PROGRAMME OUTCOMES (PO)

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

PROGRAMME SPECIFIC OUTCOMES (PSOs)

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



FACULTY, STAFF AND STUDENTS



Dr. Basappa B Kodada
Associate Professor & HOD



Mrs. Kanmani
Assistant Professor



Mr. Siju V Soman
Assistant Professor



Mr. Nithin Kurup U G
Assistant Professor



Mrs. Supriya A V
Assistant Professor



Mr. Divyesh Divakar
Assistant Professor



Mr. Jayaprakash
Lab Instructor



Mrs. Sowmya D
Lab Instructor



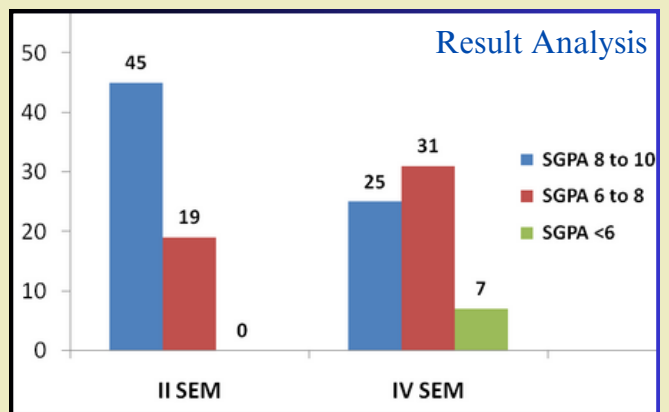
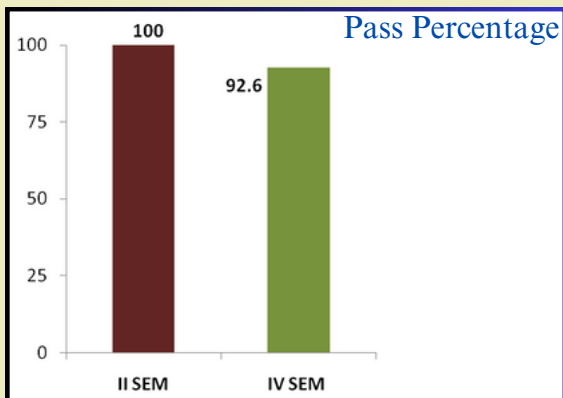
Mrs. Geetha
Lab Instructor

AIML	Male	Female	Total
Faculty	04	02	06
Staff	01	02	03
Student (IV Semester)	27	36	63



ACADEMICS

ACADEMIC RESULTS



ACADEMIC ACHIEVERS

IV SEMESTER



Ashay Shetty
4CB21AI006



Chaithanya Lakshmi
4CB21AI008



Pallavi
4CB21AI025



Vikesh
4CB21AI060



Anoop Sadanada
4CB21AI004

II SEMESTER



Akshatha Krishna Hegde
4CB22AI007



Sarthak
4CB22AI048



Shreelakshmi Hegde
4CB22AI052



Jayashree
4CB22AI023



Nithin Kamath
4CB22AI039



Chinmay Jagadeesh
4CB22AI014



Karishma B
4CB22AI024



DEPARTMENTAL ACTIVITIES

Field Visit to MUTBI and Bio-Incubator GoK, Manipal (09-08-2023)

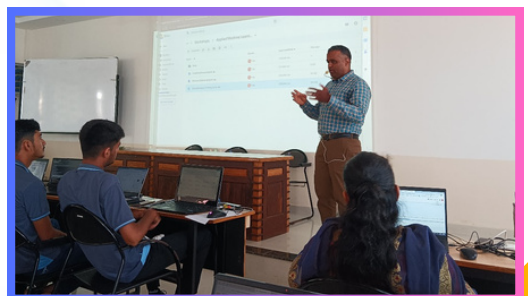
An Industrial Visit was organized by IEEE Canara Engineering Student Branch and Artificial Intelligence and Machine Learning Department for the Second Year students on 9th August 2023 at Manipal Universal Technology Business Incubator (MUTBI) and Bio-Incubation Centre, Manipal. This event was organized in association with Institution Innovation Council IIC CEC Chapter. Manipal Universal Technology Business Incubator (MUTBI) and Bio-Incubation centre are the initiatives of Manipal Academy of Higher Education, Manipal, and they provide services to students, faculty, alumni as well as people of the region to start their own Venture in line with the social objectives of Government of India. Mrs. Kanmani and Mr. Siju V. Soman, Assistant Professors, Department of AI&ML shared the responsibilities for successfully conducting the event. A total of 61 students and 4 faculty members participated in this event.



Hands-on Workshop in Machine Learning for Beginners (25-08-2023)

A two days hands-on workshop was organized by Artificial Intelligence and Machine Learning Department for the Second Year students of AI&ML and other CS allied branches on 25th and 26th August 2023 in Skill Lab, Canara Engineering College, Benjanapadavu, Mangaluru. This event was organized in association with Institution Innovation Council IIC CEC Chapter and Manipal School of Information Sciences (MSIS), Manipal.

The resource person was Prof. Sudarsan N.S Acharya, Assistant Professor in Manipal School of Information Sciences (MSIS), Manipal. He connected Computational Applications and its Focus Areas during his discussion. He discussed on the computational applications which includes Time Series Signal Processing, Image Processing, Portfolio Analysis, Risk & Return in Stocks, Clustering, Dimension reduction.



Ayudha Pooja (31-10-2023)

Department of Artificial Intelligence & Machine Learning in association with the college cultural committee, celebrated 'Ayudha pooja' with great fervour on 31/10/2023. Labs were decorated by the students. Colorful flowers, incense, and traditional rituals added a spiritual touch to the occasion. Principal and HoDs of various departments were present during the celebration.



The event commenced with Saraswathi Pooja at 11.15AM, in Data Structures and Algorithms Lab of the department. Students, staff and faculty members paid their respects to the goddess of knowledge.

The lab computers and textbooks were also worshiped as part of the ceremony to recognize their significance in the pursuit of education and technological advancement.

Branch Entry 2023(17-11-2023)

The Branch Entry program was organized by the Central Arts and Cultural department of CEC on 17/11/2023 at the Open Air Auditorium (Main Stage). Principal Dr. Nagesh H. R. inaugurated the event. A total of 31 students from the second year AIML class participated in the event.



The students performed Skit, Dance and Song on the theme "Meme Mashup". Mr. Ajay Mahale and Ms. Hiba served as the MC, The event was monitored by faculty coordinator Mrs. Supriya A.V.



Motivational Story by a Successful Entrepreneur (22-11-2023)

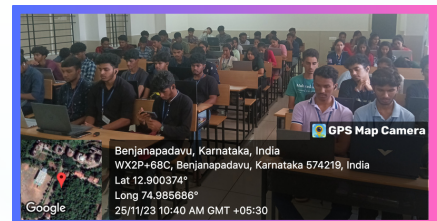
The event was organized by the department of Artificial Intelligence and Machine Learning and the main objective of this program was to provide awareness of the process and hurdles involved in setting up the startup. Mr. Shashi Kumar and Mr. Kishor Bhat, Infienersol Pvt. Ltd., were the resource persons for this event. The resource persons shared their valuable experience in setting up the venture.



The resource persons also shared their views on various opportunities available in the automobile industries as well as in the market. They enlighten the students in the direction of generating and identifying ideas for setting up their venture. A total of 126 students have participated in this event.

Artificial Intelligence -Build your Own Generative AI Model (25-11-2023)

A hands-on workshop was organized by Artificial Intelligence and Machine Learning Department for the Second Year & third year students of AI&ML and other CS allied branches on 25th November 2023 at their respective classrooms using their laptop and smartphone in Canara Engineering College, Benjanapadavu, Mangaluru.



This event was organized as online mode in association with Institution Innovation Council IIC CEC Chapter and NXT Wave, Telangana. The resource person was Mr. Trivikrama, AI Expert, secured All India Rank 93 and graduated from IIT Delhi.

Technical Talk on "Be Curious about AI" (05-12-2023)

The Department of AIML hosted a Technical Talk on "Be Curious with AI" on 05-12-2023 at AC seminar Hall, Canara Engineering College. The session was presided by Principal Dr. Nagesh H. R. The program started with a welcome speech by Mr. Ashay Shetty, V semester AIML. The Principal addressed the students regarding the technical talk. The resource person Mr. Gavrish Prabhu, AI/ML Engineer at Nutanix, started the session with his insightful words. He was a graduate of Canara High School and Canara PU College.

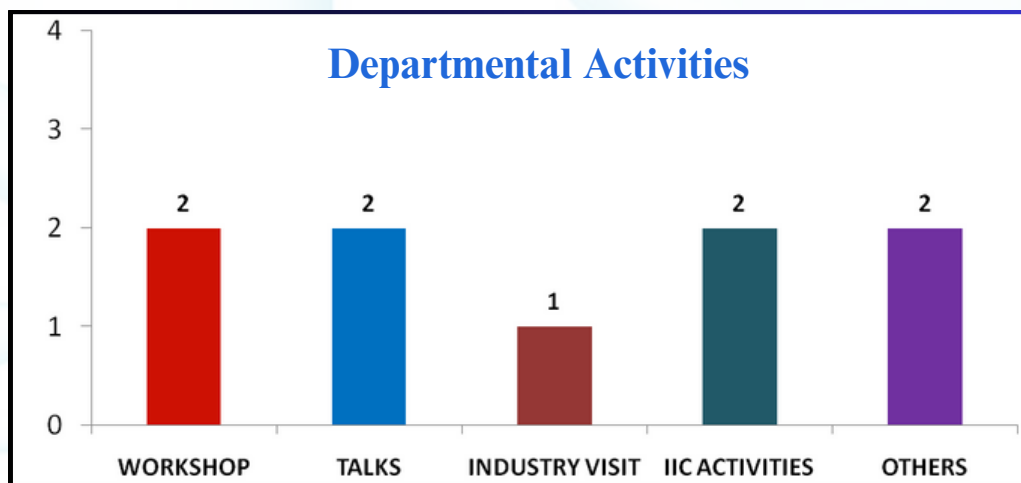


Technical session on “Generative AI” (20-12-2023)

A 2-hour session on generative AI which covered key concepts, hands-on exercises, and discussions. The session gave an overview of Generative AI, Types of Generative Models, Key Concepts and Hands-on Exercise. Students were able to gain a foundational understanding of generative AI concepts, including how it differs from other forms of AI and its applications.



"This event was organized by the department of AI & ML for the 5th Semester AIML students and the resource person was Mr. Vinod Kumar, Co-founder & CEO, Aykan".



STUDENT ACHIEVEMENTS

TECHNICAL - NATIONAL LEVEL (18)

- Pallavi Bhat (4CB21AI025), Rashmitha G. (4CB21AI033) K. Sumanth (4CB21AI014) and Shrisha (4CB21AI047) participated in the Sr. ROBO RACER National Level Event held at Noida Indoor Stadium Complex, organized by TechnoXian.
- Anoop Sadananda Prabhu K. (4CB21AI004), Mehul Muralidhar Kini (4CB21AI015), Sarthak Pramod Pai (4CB21AI036) Akhila Prabhu (4CB21AI017) Vaidoorya Padiyar (4CB21AI057) and Rahul Bhat (4CB21AI018) participated in the ROBO SOCCER National Level Event held at Noida Indoor Stadium Complex, organized by TechnoXian.
- Shrisha (4CB21AI047) and Ranjith Kumar (4CB21AI032) participated in Drone Competition National Level Event held at Noida Indoor Stadium Complex organized by TechnoXian.
- Chaithanya Lakshmi (4CB21AI004), Varshini D. (4CB21AI058) and Naveen (4CB21AI024) participated in the Line Follower National Level Event held at Noida Indoor Stadium Complex organized by TechnoXian.
- Mukesh (4CB22AI036) participated in Roolathon National Level Event held at Srinivas Institute of Technology organized by Google Developer Student Club.
- Mukesh (4CB22AI036) and Lokesh (4CB22AI045) has successfully completed TechFusion 2.0 (National Level Mega Event) online platform

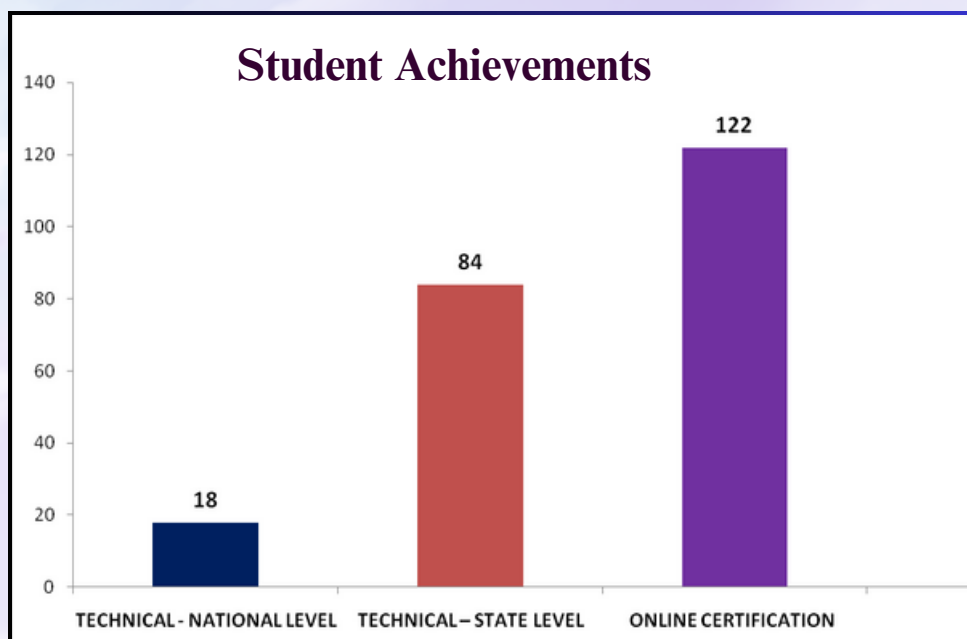
TECHNICAL – STATE LEVEL (84)

- Shravya(4CB21AI045), Shrijal(4CB21AI062), Madhushree(4CB21AI019), Chaithanya Lakshmi(4CB21AI008), Deeksha Divakar(4CB21AI010), Thanvi(4CB21AI054), and Ujwal(4CB21AI056) and M Rahul Bhat (4CB21AI038) has participated in Fusion Techaon-2023 on September 2023 at Alva's Institute of Engineering and Technology, Moodubidire.
- Shrijal(4CB21AI062) has participated in ROTOQUIZ inter college Quiz Competition-Mangaluru round for the 64th Ramnarayan Chellaran Shield held on 23rd September 2023.
- Anoop Sadananda Prabhu K (4CB21AI004) and Mehul Muralidhar Kini (4CB21AI015) has participated in inter college Competition Rotory-MSNIM Bis Quiz held at Manel Srinivas Nayak Institute of Management. and also participated both 'Goal In' and Codeblaze, both inter-collegial competitions, at Sahyadri College of Engineering and Management, and organized by Aerophiliaa 23.
- Sarthak Pramod Pai (4CB21AI036) has participated in inter college Competition “Goal In” held at Sahyadri college of Engineering and Management organized by Aerophiliaa 23.
- Anoop Sadananda Prabhu K (4CB21AI004) has participated in KCCSI start-up meet on 9th December 2023.

- Vaidoorya Padiyar (4CB21AI052) has successfully completed Training in Android App Development from 5 Nov 2023 to 05 Dec 2023.
- Deeksha Divakar (4CB21AI036) has participated in leadership Training Program Organized by M R Pai Foundation from 26 Jul 2023 to 27 Jul 2023.
- Mukesh (4CB22AI036) has participated in “Code Crush” a coding competition organized by Walchand College of Engineering, Sangli, Maharashtra on 27th October 2023 and participated in an inter-college competition “The Pitchers (Synergia) held at Sahyadri College of Engineering & Management on 8th December 2023.
- 63 Students from IV semester has attended an Internship on “Q-spiders campus connector”.

ONLINE CERTIFICATION COURSES (122)

- 63 students from IV semester has successfully completed the course on “HTML, CSS, JavaScript for web developers” in **Coursera**.
- 55 students from IV semester has successfully completed the course on “Arduino Spoken Tutorial”.
- Karishma B. (4CB22AI022) has successfully completed 12 week course Ethical Hacking in **NPTEL**.
- Denzil Serrao (4CB22AI016) has successfully completed 12 week course Ethical Hacking & Computer Graphics in **NPTEL**.
- Ajay Pandurang Mahale (4CB22AI016) has successfully completed Fundamentals of Cyber security and Crash Course on Python in **Coursera**.



FACULTY ACHIEVEMENTS

PUBLICATIONS (1)



- **Dr. Basappa B. Kodada**, November 2023. “FSACE: finite state automata-based client-side encryption for secure data deduplication in cloud computing”. International Journal of Cloud Computing, 12(6), pp. 531-555 [SCOPUS].

PARTICIPATION IN FDP, WORKSHOP AND CONFERENCE (20)



- **Dr. Basappa B. Kodada** and **Mrs. Kanmani** attended a Webinar on “Institutional Effectiveness for Inclusive Excellence: A Strategic Roadmap for Future” at Canara College, Mangaluru on 02 July 2023.
- **Mr. Siju V. Soman** attended an FDP on “Computer Vision using OpenCV” organized by NITTTR, Chandigarh at Canara Engineering College, Benjanapadavu from 07th to 11th August 2023.
- **Mrs. Supriya A.V., Mr. Siju V. Soman, Mrs. Kanmani** and **Mr. Nithin Kurup U.G.** attended a Workshop on “Machine Learning for Beginners” at Canara Engineering College, Benjanapadavu on 25th & 26th August 2023.
- **Mr. Divyesh Divakar** attended an FDP on “Design of Aero mechatronics and controls” at NMAMIT, Nitte from 25th to 27th September 2023.
- **Mr. Nithin Kurup U.G., Mrs. Kanmani** and **Mrs. Supriya A. V.** attended an FDP on “Cloud Practitioner (AWS)”, organized by ICT Academy at Canara Engineering College, Benjanapadavu from 25th – 29th September 2023.
- **Mr. Nithin Kurup U. G.**, has participated in 1st IEEE International Conference on Multidisciplinary Research in Technology and Management-MRTM 23 on September 2023.
- **Mrs. Kanmani, Mr. Nithin Kurup U.G.** and **Mrs. Sowmya D.** attended a FDP on “Building Dynamic Web Applications with AngularJS” at Canara Engineering College from 22nd to 23rd November 2023.
- **Mrs. Supriya A.V.** and **Mr. Divyesh Divakar** attended a Training program on “VTU Consortium E-Resource Training Program” at Sahyadri College of Engineering & Management on 24th November 2023.
- **Dr. Basappa B. Kodada** attended an Exhibition on “IIC Regional Meet and Exhibition, Yukthi Innovation Challenge” at Reva University, Bangalore on 9th December 2023.
- **Mrs. Sowmya D.** and **Mr. Jayaprakash** attended an FDP on “R-Programming” at Canara Engineering College on 18th October 2023.

OTHER CONTRIBUTION AND INTERACTION (1)



- **Mrs. Kanmani** has reviewed the technical papers of “International Conference on Intelligent Systems in Computing and Communication (ISCComm-2023)” organized by Mangaluru Institute of Technology and Engineering, Moodabidri in 8th December 2023.

- **Mr. Siju V. Soman** has completed 04 Certification Courses on “Principles of IoT & Python Basics, MicroPython Board, Cloud Implementation Using Azure IoT and Azure AI Fundamentals: Artificial Intelligence & Machine Learning” offered by Infosys Springboard from 21st November 2023 to 13th November 2023.
- **Mr. Divyesh Divakar** has completed 2 Certification Courses on “Deep Learning and Natural Language Processing” offered by NPTEL on November 2023.
- **Mr. Divyesh Divakar** has completed a Certificate Course on “How to Research and Write Using Generative AI Tools” offered by LinkedIn Learning on December 2023.
- **Mrs. Sowmya D.** has completed 02 Certification Courses on “Basics of Computer Networks, Applications of AI” offered by Great Learning on 7th October 2023 and 29th November 2023 respectively.
- **Mr. Jayaprakash** has completed a Certification Course on “Python for Data Science” offered by Great Learning on 18th October 2023.

AWARDS & RECOGNITIONS (2)



Dr. Basappa B. Kodada has been recognized as BoE Member for Computer Science and allied studies in VTU Belagavi for AY 2023-24 by VTU, Belagavi on 20th December 2023.



Mr. Divyesh Divakar has been recognized with a “Domain Certificate in Data Science” from NPTEL in October 2023, and he was also recognized with “NPTEL Discipline Star” from NPTEL in December 2023.

