CANARA
ENGINEERING COLLEGE

Department of
ARTIFICIAL INTELLIGENCE
AND MACHINE LEARNING

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----------- **2022 Volume:1 Issue:1**

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

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

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PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

The graduates of BE-AIML program four years after graduation will

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

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 modeling 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 Sustain ability**: 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 multi disciplinary 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 multi disciplinary 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 (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

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EDITORIAL BOARD

Dr. Basappa Kodada
Associate Professor & HOD
Dept. of AIML

Mr. Nithin Kurup U G
Asistant Professor
Dept. of AIML

STUDENT MEMBERS

Ms.Deeksha Divakar

Mr.M. Rahul Bhat

Mr.Ashay Shetty

Mr.Naveen Kumar

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OUR FACULTY AND STAFF MEMBERS

Dr. Basappa Kodada
Associate Professor & HOD

Mr. Nithin Kurup U G
Assistant Professor

Mrs. Supriya A V
Assistant Professor

Mrs. Kanmani
Assistant Professor

Mr. Jaya Prakash
Lab Instructor

Mrs. Sowmya D
Lab Instructor
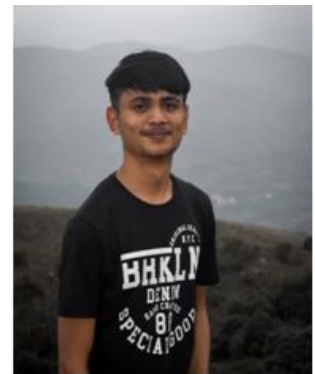
STUDENT ACHIEVEMENTS

Academic topper in First Year

Ashay Shetty
(4CB21AI006)
9.48 SGPA

Anoop Sadhanand Prabhu
(4CB21AI004)
8.95 SGPA

Sharan Raghuveer Pai
(4CB21AI40)
8.78 SGPA

S T o
R 5 P
E P

Pallavi
(4CB21AI025)
8.75 SGPA

Chaitanya Lakshmi
(4CB21AI008)
8.73 SGPA

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AWARDS/PRIZES:

1. Anoop Sadananda Prabhu K(4CB21AI004) had contributed towards making Robotic Club at Canara Engineering College in association with Canara High school Association Mangalore.

2. Ashay Shetty (4CB21AI006) participated in Debates held at Canara Engineering College in association with Canara High school Association Mangalore.

3. Ashay Shetty (4CB21AI006) participated in Priceless moments held at Canara Engineering College in association with Canara High school Association Mangalore.

PARTICIPATION IN TECHNICAL:

1. Anoop Sadanand Prabhu(4CB21AI004) and Kini Mehul Muralidhar (4CB21AI015) were recognised as trainers for Hands On Workshop On ROBO SOCCER BOT held on 08/04/2022 at Parijnan PU college, Someshwar,organised by Canara Engineering College.

2. Anoop Sadananda Prabhu K(4CB21AI004), Kini Mehul Muralidhar (4CB21AI015), M Rahul Bhat(4CB21AI018), Naveen(4CB21AI024), Sarthak Pramod Pai(4CB21AI036), Sharan Raghuveer Pai(4CB21AI040),Shravan S Poojary(4CB21AI044), Shravya JS(4CB21AI045),Thanvi R(4CB21AI054) and Ujwal Kulal(4CB21AI056) were recognised as Trainers for Hands On Workshop On ROBO SOCCER BOT held on 21/07/2022 at Canara High school Urwa, Manglore organised by Canara High school Association Mangalore.

3. Ananya Shetty (4CB21AI002), Anju Krishna(4CB21AI003), Anoop Sadanand Prabhu(4CB21AI004), Deeksha Divakar(4CB21AI010), Kini Mehul Muralidhar (4CB21AI015), M Rahul Bhat(4CB21AI018) were recognised as Trainers for Hands On Workshop On ROBO SOCCER BOT held on 20/08/2022 at Sharadha PU College, Manglore organised by Canara Engineering College.

5. Anju Krishna(4CB21AI003), Deeksha Divakar(4CB21AI010),Chaitanya Lakshmi(4CB21AI008) and Rashmitha G(4CB21AI033) participated a workshop on Making of Line Follower Robot on 20/08/2022 organised by Abira Automation Under "Project Tarunodaya".

6. Anoop Sadananda Prabhu K(4CB21AI004),Chaitanya Lakshmi(4CB21AI008) Kini Mehul Muralidhar (4CB21AI015) , M Rahul Bhat(4CB21AI018) and Vraksha R Shet(4CB21AI061) were recognised as a student facilitator for Educational Field Trip Activity held on 08/06/2022 at Canara High School Urwa organised by Canara Engineering College.

7. Deeksha Divakar(4CB21AI010), Eesha Pai P(4CB21AI011)) and Vaidoorya Padiyar(4CB21AI057) had participated for Introduction to UI/UX Design workshop held online conducted by Canara Engineering College.

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PARTICIPATION IN CULTURAL:

1. Eesha Pai (4CB21AI011) participated in the rangoli competion held at Canara Engineering College organised by the Fine Arts Club.

2. Shashank S(4CB21AI041) participated in the Book Review Competition on 25/04/2022 held at Canara Engineering College organised by the NDLI club.

3. Vaidoorya Padiyar(4CB21AI057) was recognised for the Kalasiri Award organised by the Nruthya Sourabha Naatyalaya, Ullala and also participated in the "Let's get Craftin-Greeting card making Competition", held at Canara Enginering College organised by Fine Arts Club on 26/2/2022.

4. Shantha Durga Nayak(4CB21AI039), Shravya JS(4CB21AI045) and Vaidoorya Padiyar(4CB21AI057) backed first place in Kai Po Che- Kite making competition held at Canara Engineering College organised by Fine Arts Club on 14/01/2022 at which Deeksha Divakar(4CB21AI010),Chaitanya Lakshmi(4CB21AI008) and Madhushree (4CB21AI019) had also participated.

PARTICIPATION IN SPORTS:

- Mazeen aftab shaikh (4CB21AI023) Participated in badminton men organized by VTU at Intercollegiate on 22nd & 23rd December 2022 Rao Bahadur y.Mahabaleshwara ppa Engineering College,Ballari

DEPARTMENT ACTIVITIES

Department of AIML organized Branch Entry on 02.12.2022

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MENTORING INITIATIVES AT SCHOOL(TINKERING):

1. Athul Krishna(4CB21AI007), Naveen (4CB21AI024),Sanchitha Gowda(4CB21AI035) and Vaidoorya Padiyar(4CB21AI057) were recognised as trainers for Solving Rubics Cube held at Canara High School,CBSE on 22/08/2022 associated by Canara Engineering College.

1. Eesha Pai (4CB21AI011) took part on a 3rd National Online Quiz 2016, International level quiz conducted by Pradhana Manthri Awaz Yojana .

2. Eesha Pai (4CB21AI011) and Shashank S(4CB21AI041) participated at an international level quiz compitition conducted by MRPL-MSNIM VIGILANCE AWARENESS WEEK 2022 e QUIZ CORRUPTION FREE INDIA FOR A DEVELOPED NATION on 10/12/2022 in association with MANGALORE REFINERY AND PETROCHEMICALS LIMITED.

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STAFF ACHIEVEMENTS

Publication

1. Dr.Basappa B.Kodada, and Dr. Demian Antony D'Mello. "Finite state transducer based light-weight cryptosystem for data confidentiality in cloud computing." International Journal of Grid and Utility Computing 13.6 (2022): 577-588.

2. Kanmani, Rao, P. V., Tilak, S. K., Kulal, B., & Jyothika, R. (2022, October). AI-enabled Clinical Decision Support System. In 2022 International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER) (pp. 1-6). IEEE. 10.1109 /DISCOVER55800.2022.9974639

Participation

1. Dr. Basappa B Kodada has participated in FDP on "Research Proposal Development"organized by Manipal Institute of Management, MAHE, Manipal from August 25th - 27th 2022.

Invited Talk

1. Dr. Basappa B Kodada delivered a talk on "AI tools for content writing/rewriting" in the Three-Day FDP on "Modern Tools for Academic documentation" organized by the Basic Science Department, CEC Benjanapadavu from 1st - 3rd September 2022.

2. Dr. Basappa B Kodada delivered a talk on "Cascading Style Sheets (CSS)" in the Two-Day FDP on "Web Programming" organized by the Basic Science Department, CEC Benjanapadavu from 1st - 3rd September 2022.

3. Mrs. Supriya A V, Assistant Professor, Department of Artificial Intelligence and Machine Learning gave an awareness talk on "Effective Utilization of Library" on 30/11/2022 for second year students of AIML, CS&D and CSBS under The Department of Central Library and Information Center. Students were shown a demonstration of the effective access of digital content subscribed by VTU Consortium.