

Department of Artificial Intelligence and Data Science

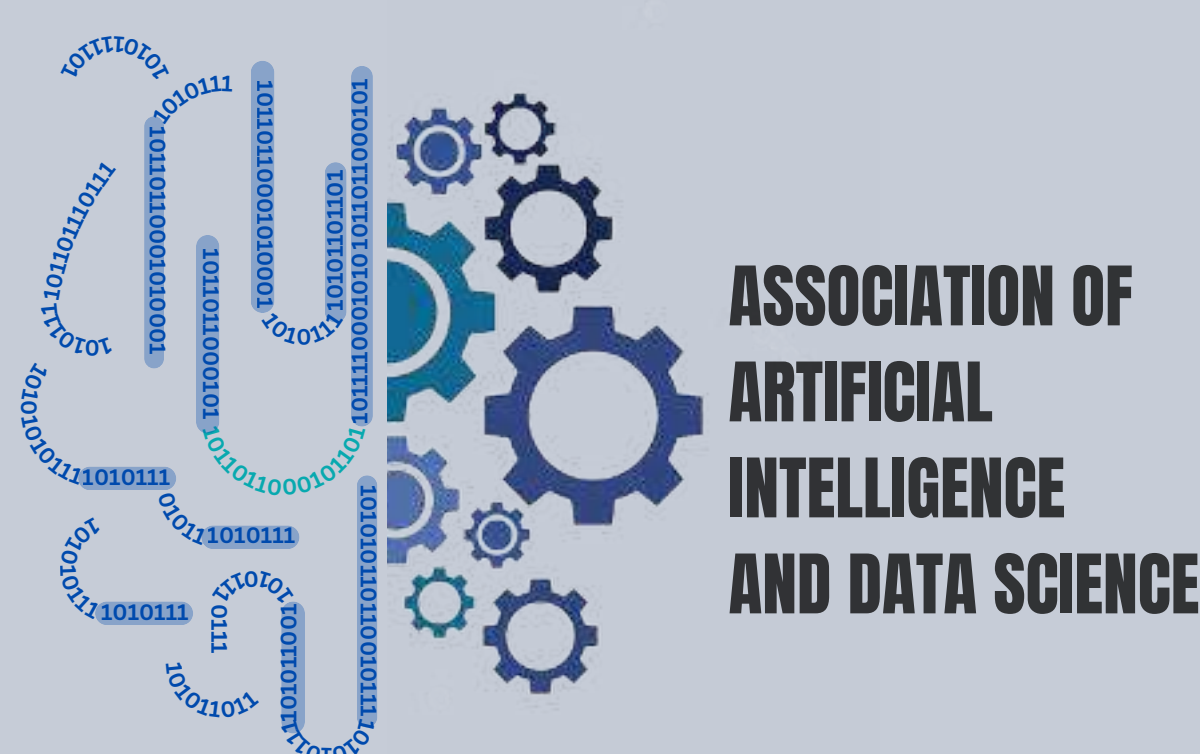
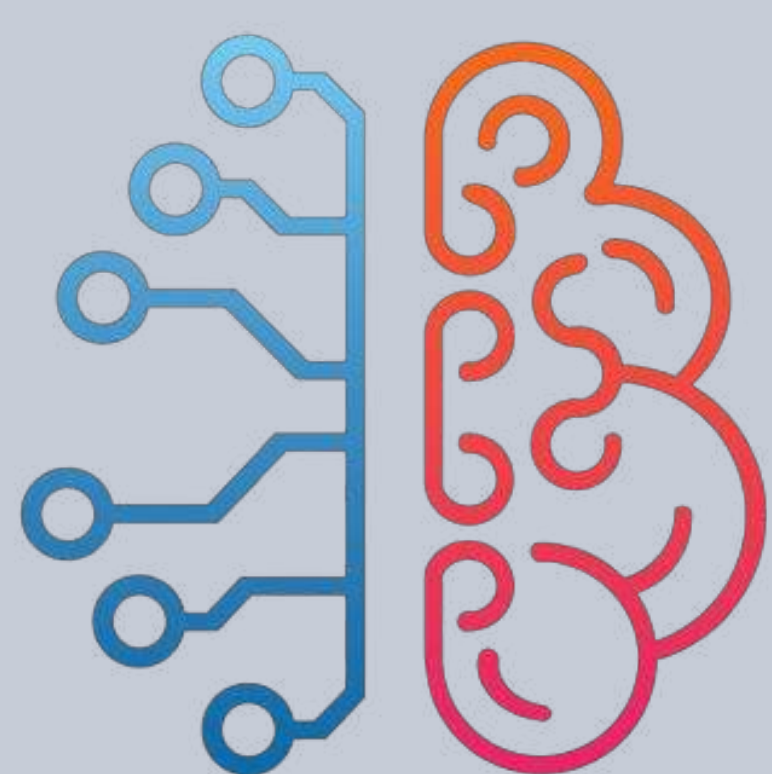
VOL - 02

APRIL 2023- SEPTEMBER 2023



CHRONICLES

NEWSLETTER



TinkerHub
MITS

AI CHRONICLES

EDITORIAL

Dear All,

We are excited to bring you the latest updates and accomplishments of the AI and Data Science Department in this edition of our department newsletter. In the rapidly evolving landscape of artificial intelligence and data science, our newsletter is playing a pivotal role in keeping us connected and informed. We have several exciting events on the horizon, including seminars, workshops, and Conferences. These events provide excellent opportunities to learn from experts in the field, collaborate with peers, and expand our knowledge in AI and Data Science. Our talented students have been making us proud with their outstanding contributions. We'll introduce you some of our exceptional students and their projects, showcasing the future of AI and data Science. Our dedicated faculty members continue to excel in both teaching and research. We'll share updates on their recent publications, awards, and contributions to the field. We hope that you find this newsletter informative and inspiring. The AI and Data Science Department is committed to pushing the boundaries of knowledge, fostering innovation, and contributing to the broader community.

I extend my heartfelt gratitude to all the contributors, writers, and researchers who have made this newsletter a reservoir of insights and discoveries. Your dedication and passion has transformed this platform into a vibrant reflection of our collective expertise.

Warm regards,

Shiji S

Editor

AI & DS Department Newsletter

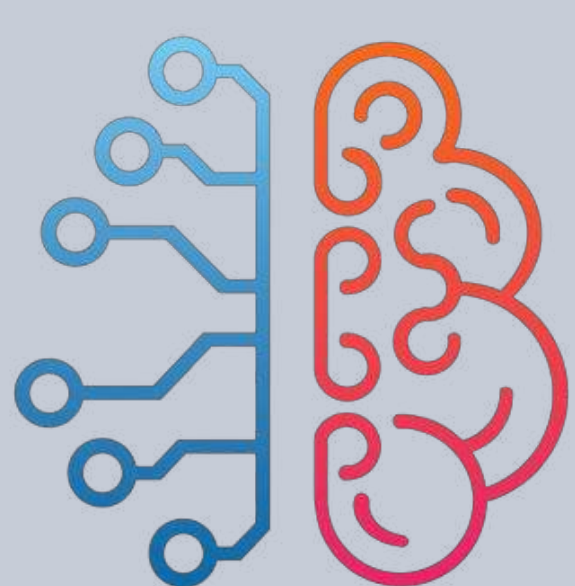


Editorial

Ms. Shiji S

Stevin Sony S5 CS(AI)

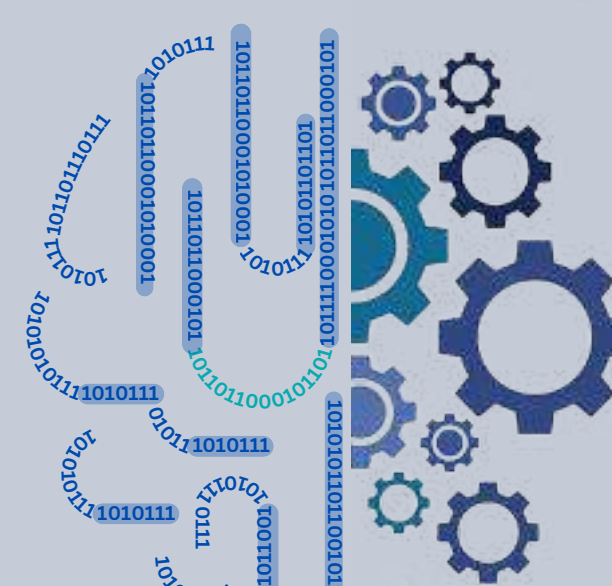
Harigovind G S5 CS(AI)



Department of Artificial Intelligence and Data Science



Computational Intelligence Club



ASSOCIATION OF
ARTIFICIAL
INTELLIGENCE
AND DATA SCIENCE

TinkerHub
MITS

AI CHRONICLES

VISION

To be a center of excellence in learning, research and technology development in the field of Artificial Intelligence and Data science with a strong sense of social responsibility.

MISSION

- To facilitate state-of-the-art teaching and learning to meet the expectations of the stakeholders.
- To empower students towards technology development & transfer, to solve socially relevant problems.
- To promote collaborative research through long term interaction with industry and R&D institutions

PROGRAM SPECIFIC OUTCOME OF CS(AI)

- PSO1: Implement AI models and strategies for real world problems to meet the challenges of future.
- PSO2: Develop computational models for system automation.

PROGRAM SPECIFIC OUTCOME OF AI&DS

- PSO1: Interpret and visualize high dimensional data for decision making systems.
- PSO2: Develop computational models for system automation.

PROGRAM EDUCATIONAL OBJECTIVES

Our graduates will

- PEO1: Create sustainable AI models.
- PEO2: Implement AI responsibly in research and development and technology transfer.
- PEO3: Deliver AI solutions for entrepreneurial activities leading to employment generation.

AI CHRONICLES

EVENTS ORGANIZED

ADDON COURSE FOR PYTHON AND DJANGO

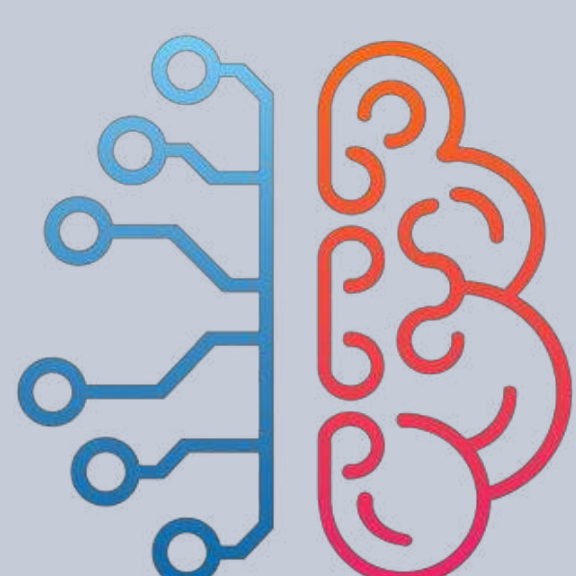
11/09/23 - 14/09/23 CODD BASE LAB

A 5 days workshop on Python and Django development have been conducted for S5 AI students by Mr Amresh Kumar and Mr Jivin George of Zero Pixel Technology. This workshop has provided a basic knowledge in HTML , CSS, MySQL Python, Django and basic web server architecture. The students also had completed a small project.



Course Objectives

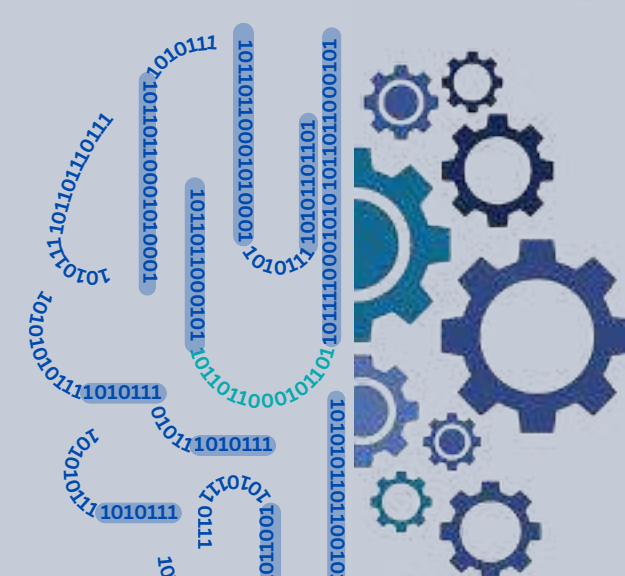
- To introduce participants to Python programming fundamentals.
- To teach participants how to use Django, a powerful Python web framework, for building web applications.
- To enable participants to create, design, and deploy web applications independently.
- To provide participants with real-world project experience to enhance their portfolios.
- To prepare participants for web development careers and freelance opportunities.



Department of Artificial Intelligence and Data Science



Computational Intelligence Club



ASSOCIATION OF
ARTIFICIAL
INTELLIGENCE
AND DATA SCIENCE

TinkerHub
MITS

EVENTS ORGANIZED

ADDON COURSE ON CYBERSECURITY

11/09/23 - 15/09/23 JOHN MCARTHY LAB

A five day workshop on Cyber and Information Security was conducted by Mr Ragesh of Federal Academy for S7 AI students.

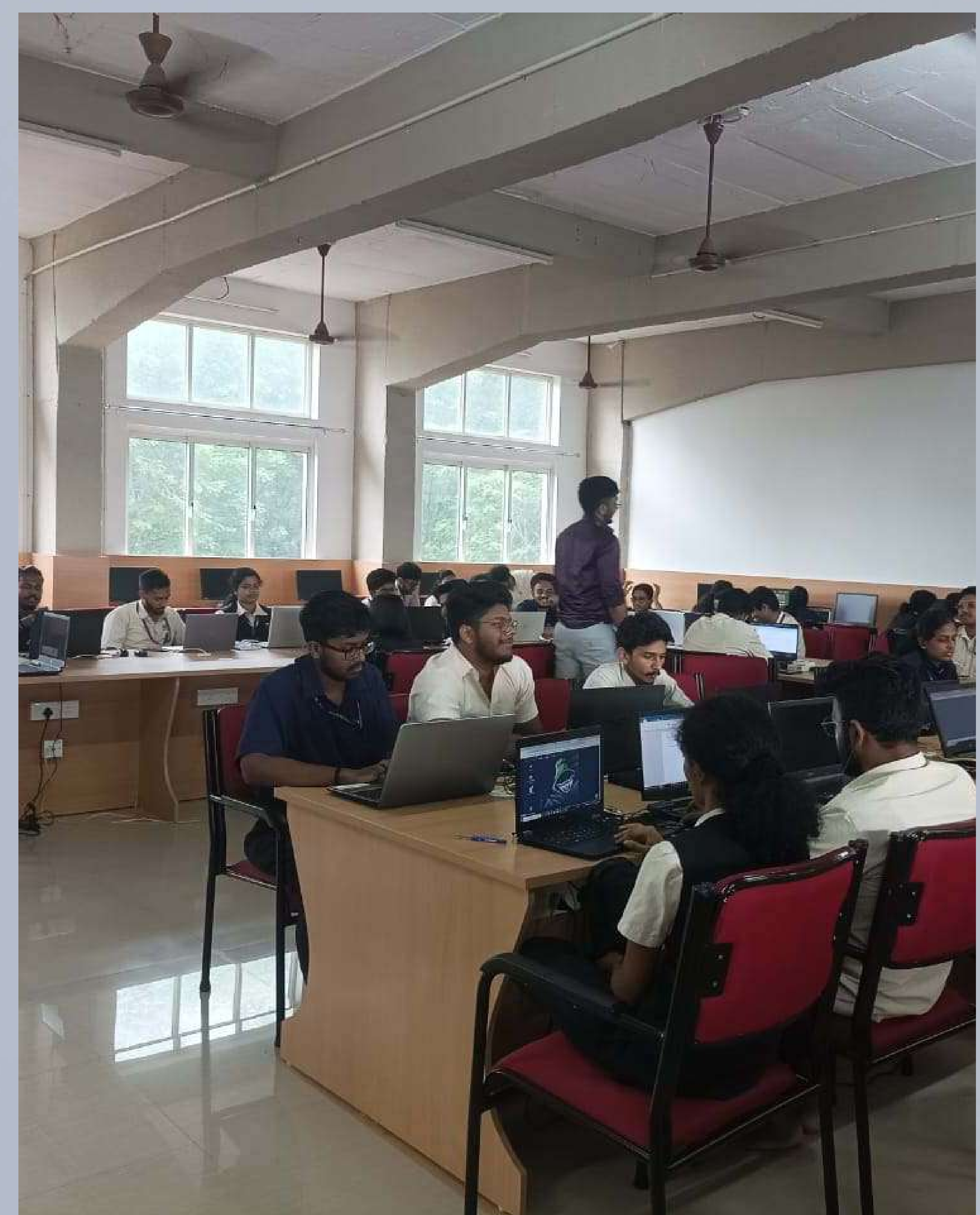
Course Objectives

- Understand the fundamentals of cybersecurity, including its importance in today's digital landscape.
- Identify common cybersecurity threats and vulnerabilities.
- Learn about security policies, procedures, and best practices.
- Gain hands-on experience with tools and techniques for securing systems and networks.
- Develop a foundational knowledge of encryption, authentication, and access control

The course content was up-to-date, addressing current cybersecurity threats and best practices. Certificate was provided to students after assessment and successful completion



FEDERAL ACADEMY FOR CYBER EDUCATION



AI CHRONICLES

EVENTS ORGANIZED

EMBEDDED INTELLIGENCE WORKSHOP

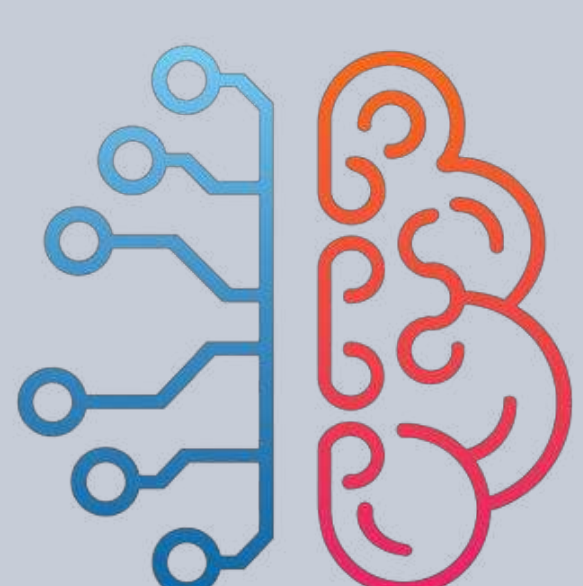
26/04/2023 - 28/04/2023

A three-day hands-on workshop on "Embedded Intelligence with Jetson Nano" was organized by the Computational Intelligence Club of AI & DS Department in collaboration with IIT Palakkad Technology IHub Foundation and FOSS. The course sought to acquaint attendees with the fundamentals of AI, computer vision, and deep learning. Mr. Lomin Joy, Project Engineer in Embedded System(IPTIF) IIT Palakkad, coordinated the session. Students from every department took part in the workshop.



TECHNICAL TALK ON "INDUSTRIAL AI" **20/04/2023**

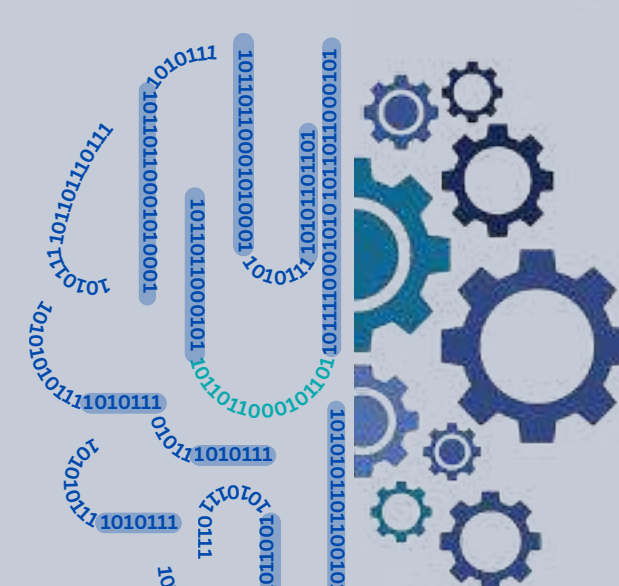
"Industrial AI" is a talk session conducted by the department of Artificial intelligence and data science on 20th April at Visvesvaraya hall from 11 am to 12 pm, The meeting was chaired by Mr.Robin Tommy,the social innovative head of Tata consultancy services (TCS). The meeting was a visionary talk on the application of AI on underprivileged and specially abled students from insights provided from Adarsha school.



It's your future, it's our future, it's AI. Let's build it together.



Computational Intelligence Club



ASSOCIATION OF
ARTIFICIAL
INTELLIGENCE
AND DATA SCIENCE

TinkerHub
MITS

FACULTY ACHIEVEMENTS

DR SUMAM MARY IDICULA

RESEARCH PUBLICATIONS

- "An answer recommendation framework for an online cancer community forum." Multimedia Tools and Applications 15 May 2023:127.doi:10.1007/s11042-023-15477-9(2023).
- Raj J, A., Idicula, S. M., & Paul, B. (2023). Improved Deep Learning Method for Real-Time Ship Detection and Localization From SAR Image. Journal of the Indian Society of Remote Sensing, 1-14.Springer India 21/04/2023
- Enhanced Video Classification System with Convolutional Neural Networks Using Representative Frames as Input Data. In Intelligent Computing and Applications: Proceedings of ICDIC 2020 (pp. 259-264). Singapore: Springer Nature Singapore.



CONFERENCE PUBLICATIONS

- A Novel Approach For English-Hindi Cross lingual Summarization - ICSCC23 organized by MITS Kochi during 17-19 August 2023
- English to Indian sign language gloss structure translation using sequence to sequence model - ICSCC23 organized by MITS Kochi during 17-19 August 2023

FACULTY ACHIEVEMENTS

DR.CERENE MARIAM ABRAHAM

RESEARCH PUBLICATIONS

- Cyber Complaint Automation System," 2023 Advanced Computing and Communication Technologies for High Performance Applications (ACCTHPA), Ernakulam, India, (2023), pp. 1-5, doi:10.1109/ACCTHPA57160.2023.10083354. (IEEEXplore)



OTHERS ACHIEVEMENTS

- MITS C V Raman Award 2023 for student paper publication.
- Reviewer of the IEEE International Conference on Innovations in Engineering and Technology Organized by Ilahia College of Engineering & Technology, Muvattupuzha on July 13&14 2023

AI CHRONICLES

FACULTY ACHIEVEMENTS

DR. PRIYA C V

RESEARCH PUBLICATIONS

- Automatic Text Summarization: Methods, Metrics and Datasets.". Second International Conference on Computing, Communication, Security & Intelligent Systems (IC3SIS' 23) organized by the Department of CSE, SCMS School of Engineering and Technology, Karukutty,



INVITED LECTURE

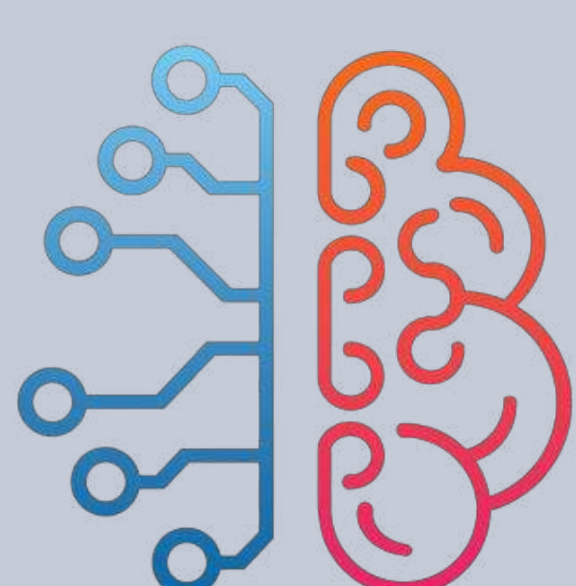
- Delivered a talk on "From Python Novice to AI Explorer: An Introductory Journey" organized by IEEE CS/RAS Jt. Chapter at College of Engineering Karunagappally on 17/06/2023
- Reviewer of the International Conference on Intelligent Techniques in Computer & Engineering Sciences, ITCES 2023 Organized by College of Engineering, Perumon on 15/06/2023 & 16/06/2023.

CONFERENCE PUBLICATIONS

- A Novel Approach For English-Hindi Cross lingual Summarization - ICSCC23 organized by MITS Kochi during 17-19 August 2023

OTHER ACHIEVEMENTS

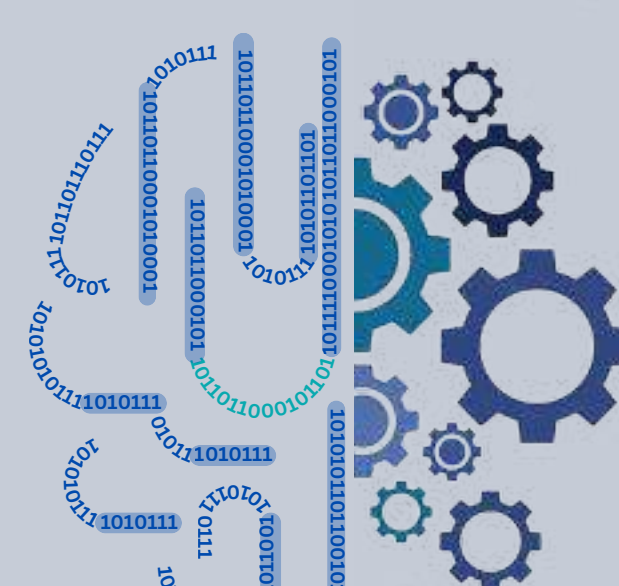
- PhD supervisorship at KTU



Department of Artificial Intelligence and Data Science



Computational Intelligence Club



ASSOCIATION OF
ARTIFICIAL
INTELLIGENCE
AND DATA SCIENCE

TinkerHub
MITS

FACULTY ACHIEVEMENTS

FACULTY DEVELOPMENT PROGRAMME

A FDP was organized by the AI&DS Department on Demystifying Machine Learning Algorithms, on July 20, 2023. Dr. Anishin Raj of IBS Software Kochi was the resource person and Dr. Jina Varghese, Assistant Professor, Department of AI and DS was the coordinator of the FDP.

The objective of this FDP was to help participants learn advanced programming concepts of Java like Java Springboot and Hibernate. The practical orientation of the course enabled the learners to acquire a clear understanding of the advanced concepts of Java programming for Artificial Intelligence and also the skill sets to execute it.



The poster for the FDP program features a blue and white color scheme. At the top left is a '10 Years Excellence' badge. The top center displays the Muthoot Institute of Technology & Science logo. The top right shows a stylized brain/circuit logo. The main title 'STAFF UPSKILLING PROGRAM' is in bold black text. Below it, the department and division are listed. The course title 'JAVA SPRINGBOOT AND HIBERNATE' is in red. A photo of Dr. Anishin Raj is shown. His name and role are listed below the photo. The date and time of the event are on the right. Logos for NIRF and ARIIA are at the bottom left, and a contact number is at the bottom right.

Muthoot
Institute of Technology & Science

STAFF UPSKILLING PROGRAM

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE
DIVISION OF COMPUTER SCIENCE

JAVA SPRINGBOOT AND HIBERNATE

Dr. Anishin Raj
Lead,
Learning and Development,
IBS Software, Kochi

JULY 20, 2023
2.00PM-4.00P
HINTON LAB

nirf
NIRF: 251-300 (Engg 2022)

ARIIA

Dr. Jina Varghese- 9544135560

AI CHRONICLES

STUDENT ACHIEVEMENTS

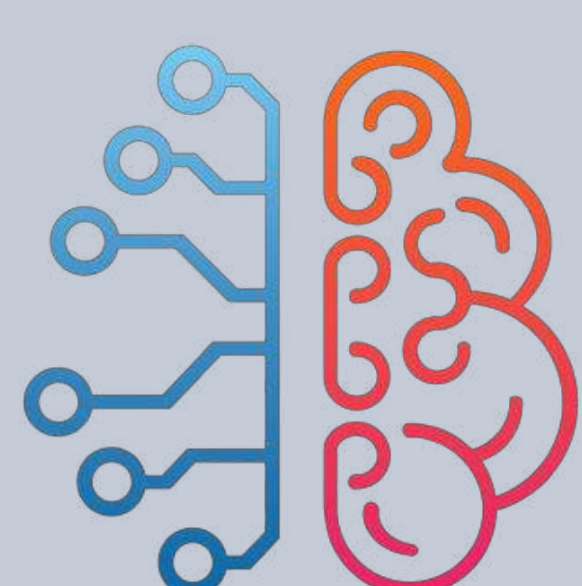
Joel Basil Kurian, Varun Haridas, Akshay Jayakumar, Vishnu Nair bagged the third prize in the Ideathon competition conducted as part of MITS DevSummit 2023.



Nandu Rajesh, Ayoona Maria John, Timon K John, Venkidesh Venu secured the third place in Armageddon event organised by the department as part of Shreshta 2023.



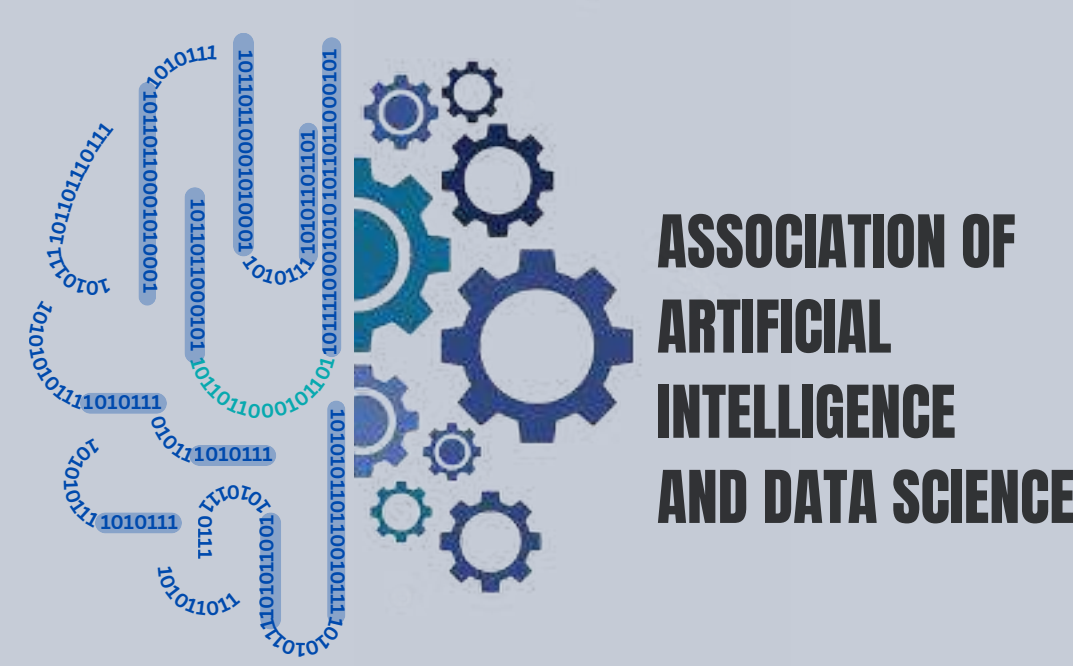
- Aadinath Deepak, Simon J Kurien, Akhil Babu, Rohan C Anish bagged first prize at Armageddon event organised by the dept as part of Shreshta 2023.



Department of Artificial Intelligence and Data Science



Computational Intelligence Club



ASSOCIATION OF
ARTIFICIAL
INTELLIGENCE
AND DATA SCIENCE

TinkerHub
MITS

STUDENT ACHIEVEMENTS

Sana N and team bagged second prize in Intercollege Mime competition held as a part of Shreshta 2023.



Swathy S Krishna, Varun, Abdul Rahman(team RIZZ) won first prize for the idea of a haptic device named "raksha" in Incursus, an ideathon by IEEE SB MITS.

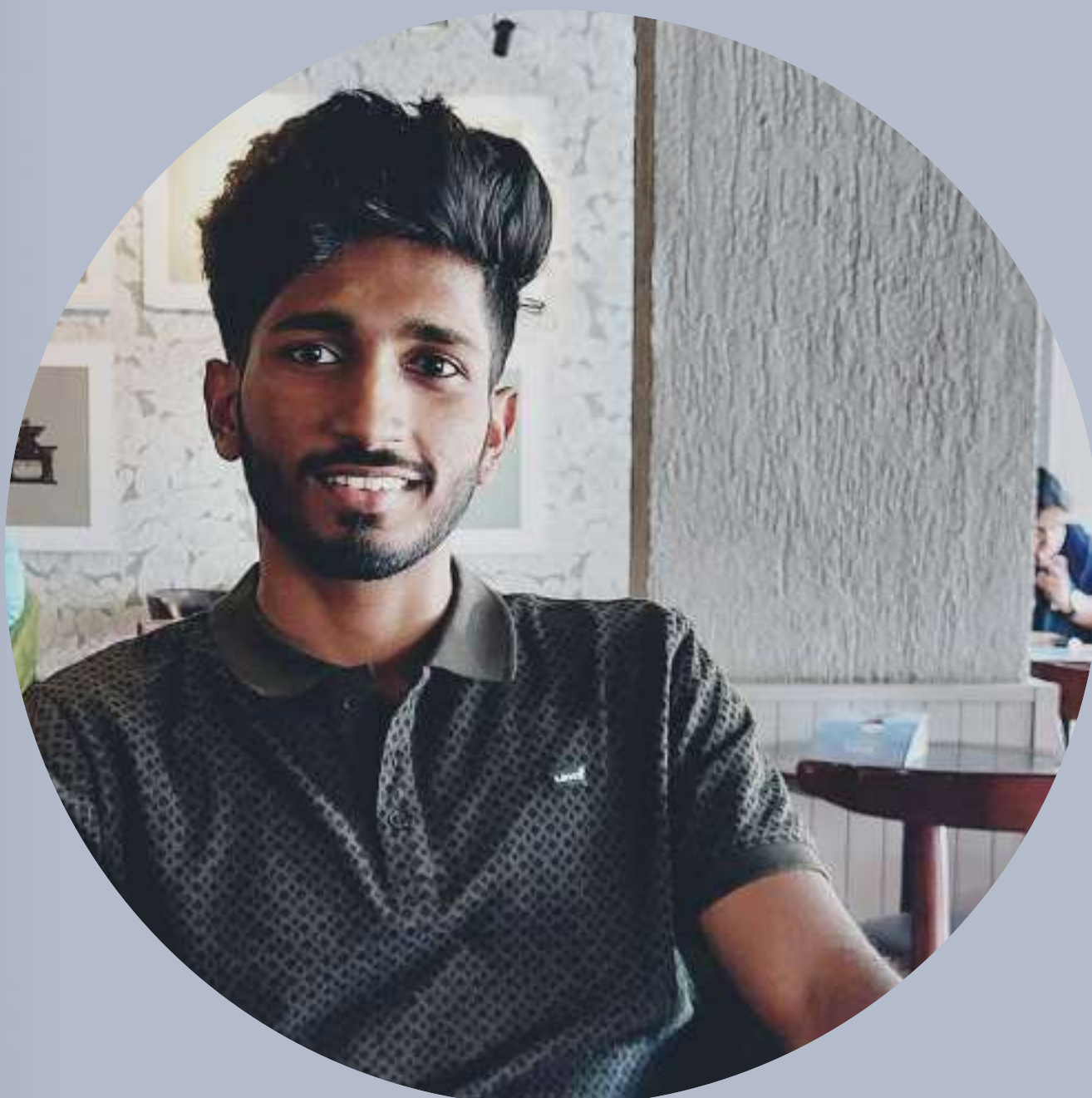
- Joel Basil Kurian was the mentor for Machine Learning in the Maker Stations program, organized by TinkerHub in collaboration with Amazon, which took place on 29 April, 2023 at the esteemed TinkerSpace in Kochi,
- He also delivered a talk on "Exploring Prompt Engineering - The Art and Science of Crafting Effective Prompts" on 14 April 2023 for GTech MuLearn.



AI CHRONICLES

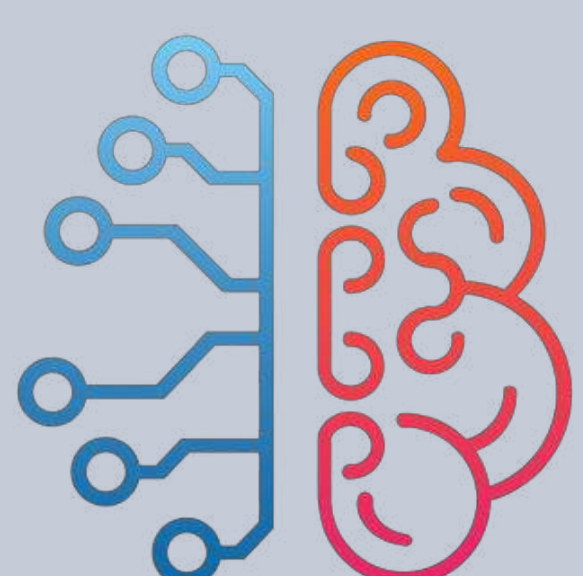
STUDENT ACHIEVEMENTS

Swathy S Krishna and team bagged second prize for Lights, Action camera the intercollege movie spoof, at SHRESTA'23, She also bagged first prize in Presentation prodigy, by Toastmasters MITS. She and her team MATRIX also won first for Sciencia Concursus, a debate competition held by IEEE. She also cleared the first quiz round, and appeared for coding round in Amazon Hackon challenge hosted by Amazon.



V V Abhijith of S5 AI&DS won first prize for 100m, 200m, 4x100 relay making him the Sachin Tendulkar awardee as the individual champion of Spark '23.

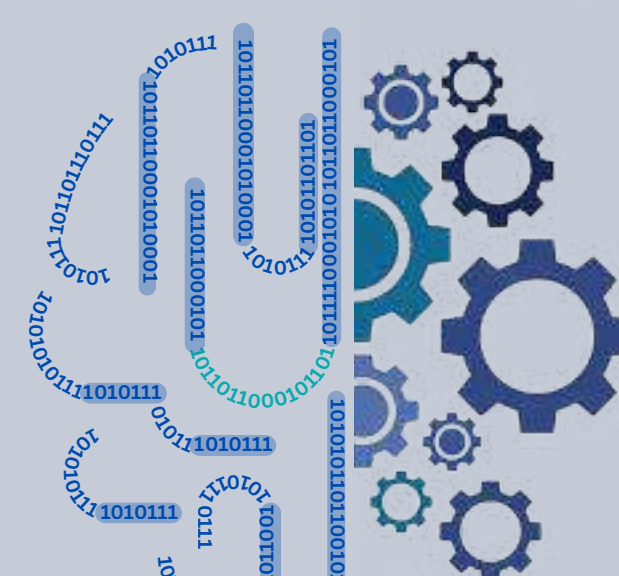
Aswindev SP, Jishnu G Varrier and Rohit Babu George bagged first prize in the hackathon conducted by Sahridaya college, thrissur as part of their tech fest.



Department of Artificial Intelligence and Data Science



Computational Intelligence Club



ASSOCIATION OF
ARTIFICIAL
INTELLIGENCE
AND DATA SCIENCE

TinkerHub
MITS

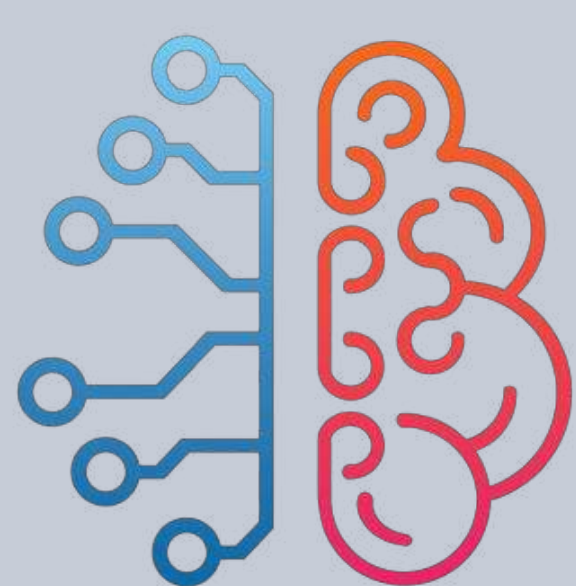
AI CHRONICLES

STUDENT ACHIEVEMENTS

Hima Hari and Ayisha Saheed bagged 1st and 2nd prizes respectively in Wiebiela Poster Design Competition organized by IEEE & WIE



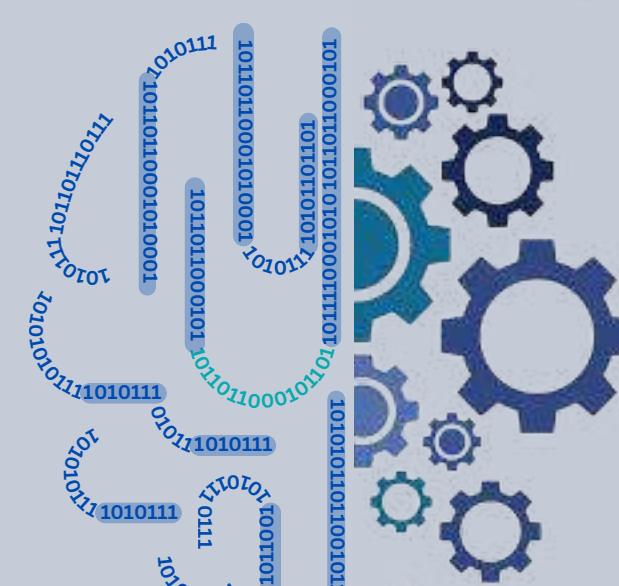
Janu Sunil, Meenakshi Madhu and team bagged 1st prize in Amrita Cup held at Amritapuri. Also Janu was awarded the best player award for the same.



Department of Artificial Intelligence and Data Science



Computational Intelligence Club



ASSOCIATION OF
ARTIFICIAL
INTELLIGENCE
AND DATA SCIENCE

TinkerHub
MITS

AI CHRONICLES

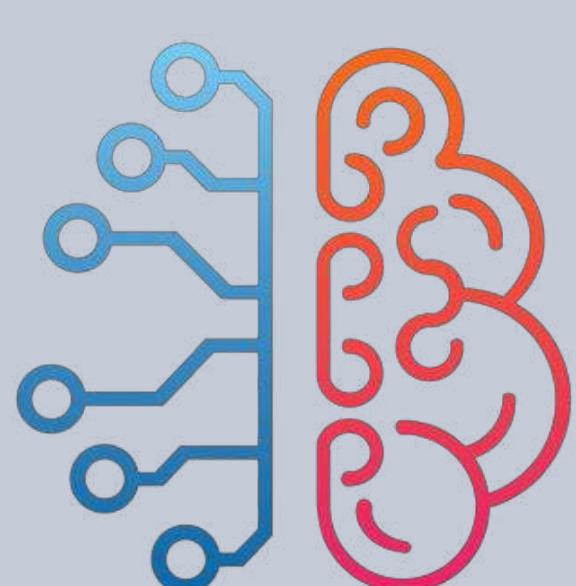
STUDENT ACHIEVEMENTS

ROBORAVE - PROJECT EXPO

23/06/2023

RAMANUJAN BLOCK

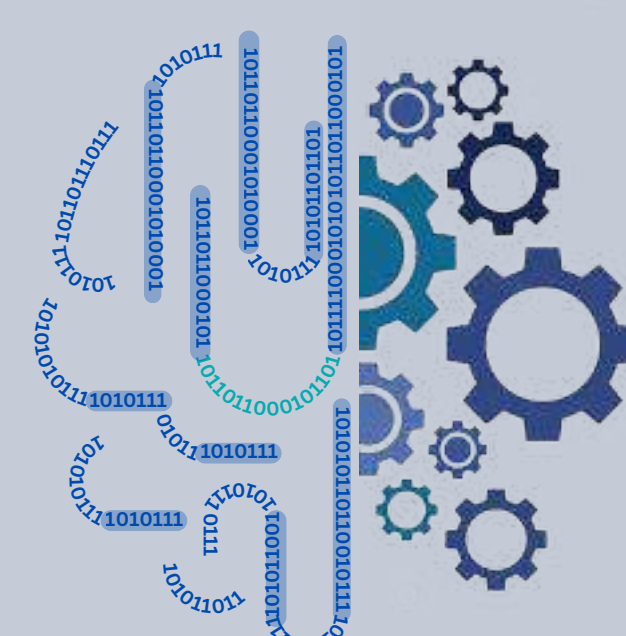
ROBOBRAVE was a Robotics Lab Project Expo conducted by the AI & DS department on 23/06/2023 Friday at Ramanujan Block. All S6 students of AI participated in this EXPO and won several prizes. The EXPO was coordinated by Dr. Arunkant A Jose, Ms Nivea Kesav, Ms Saira Shamsuheen and was evaluated by Dr Shobha Gopalakrishnan, Dr P Suresh, Mr Rajesh Kumar T. The first Prize of the expo was for the project 'Mini Weather Station' and the Second prize was for the project "Home Safety and Automation"



Department of Artificial Intelligence and Data Science



Computational Intelligence Club



ASSOCIATION OF
ARTIFICIAL
INTELLIGENCE
AND DATA SCIENCE

TinkerHub
MITS