

# Department of Artificial Intelligence and Data Science

**VOL - 03**

*October 2023- March 2024*



# CHRONICLES

## NEWSLETTER



## EDITORIAL

Dear All,

In this edition of our department newsletter, we are delighted to present you the most recent information and successes from the Artificial Intelligence and Data Science Department. This publication honors the outstanding accomplishments, insights, and inventions that define our vibrant and thriving community. We have a number of intriguing activities planned, including seminars, workshops etc. These events are a wonderful opportunity to learn from industry leaders and broaden your understanding of AI&DS. Our department's lifeblood, our students, take center stage as we highlight their exceptional achievements in projects and academics. I sincerely thank all of the writers, researchers, and contributors who have helped to make this newsletter a success.

Warm regards,

Anupa Tom

Editor

AI & DS Department Newsletter



### Editorial

Ms. Anupa Tom

Harigovind G - S7 CS(AI)

Kadeeja Manika - S4 AI&DS



# AI CHRONICLES

## VISION

To be a center of excellence in teaching, 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 OF AI&DS**

- PEO1: Design & develop AI models to automate various processes in industrial applications.
- PEO2: Design & develop solutions relating to big data problems.

## **PROGRAM EDUCATIONAL OBJECTIVES OF CS(AI)**

- PEO1: Design & develop AI models to automate various processes in industrial applications.
- PEO2: Design & develop solutions relating to automation of systems.



## EVENTS ORGANIZED

### CODEJAM - CODING COMPETITION

29/11/2023 JOHN MCCARTHY LAB

A thrilling, competitive programming competition which consisted of all the students from the 3rd years to the 2nd years. This was the first competition hosted by the CIC club.

Throughout this event, students had the opportunity to challenge your coding skills, connect with like-minded individuals, and explore the exciting world of programming.



The event took place over the course of an evening spanning three labs, and students were tasked to solve a set of competitive coding questions in their language of choice.



## EVENTS ORGANIZED

### RELAY CODING

**6-12-2023 JOHN MCARTHY LAB**

Relay coding was an innovative approach to competitive oriented programming questions, where participants solved programming challenges in teams, with each team member holding the “baton”, i.e, in control of solving the problem for 10 minutes, after which they would pass the “baton” to the next member for them to solve.

Participants where encouraged to use a wider array of strategies, balancing between solving the problem and explaining their approach in comments for the next member.





## EVENTS ORGANIZED

### LEADING THE WOMEN WAY

**7-03-2024 APJ ABDUL KALAM HALL**

The Association of Artificial Intelligence and Data Science hosted an inspiring session titled "Leading the Woman Way" on 7th March 2024 at the APJ Abdul Kalam Hall. The event was honored by the presence of Ms. Lakshmi Atul, the Director of Aries Group of Companies, as the keynote speaker. The session was attended by both students and faculty members of the AI&DS department, marking a significant occasion for learning and dialogue on gender equality and empowerment. The session was coordinated by Ms. Parvathy E N.





## EVENTS ORGANIZED

### ALUMNUS INTERACTIVE SESSION

**29-01-2024 APJ ABDUL KALAM HALL**

On 29th January 2024, the Association of Artificial Intelligence and Data Science organized an Alumnus Interactive Session, conducted by Ms. Andria Maria Ajai (CSE 2017-21) at APJ Abdul Kalam Hall. The event aimed to inspire and enlighten second-year students about the numerous opportunities available beyond their academic curriculum, how to create resumes, and excel in internships. The event was coordinated by Ms.Parvathy E N.



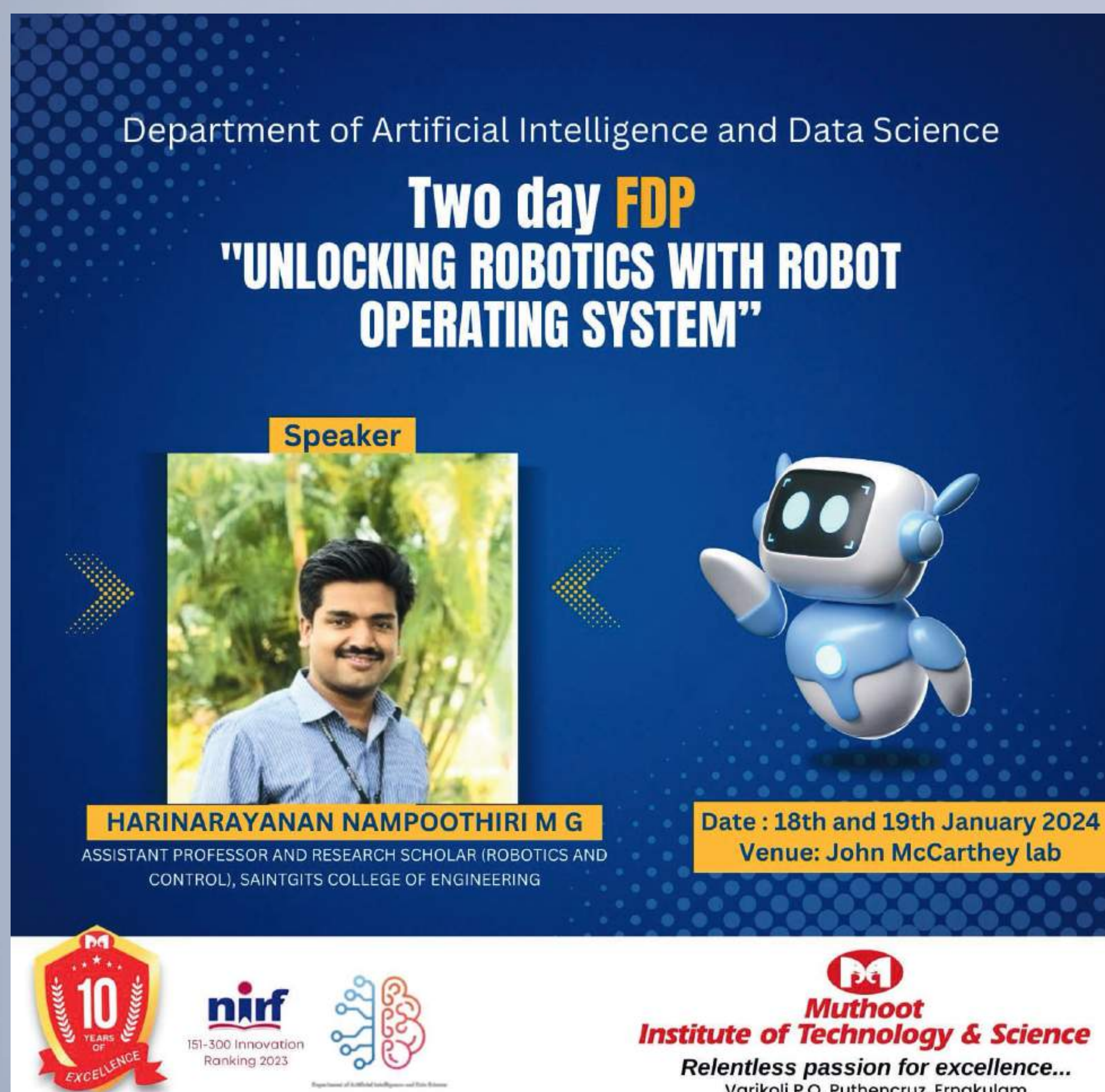


## DEPARTMENT ACHIEVEMENTS

### UNLOCKING ROBOTICS

**18-01-2024 & 19-01-2024 JOHN MCCARTHY LAB**

A two day faculty development programme was hosted by Harinarayanan Nampoothiri MG, Asst. Professor and research scholar for robotics and control, Saintgits college of engineering, for the topic “Unlocking Robotics with Robot Operating System”.





## DEPARTMENT ACHIEVEMENTS

### ADD ON COURSE

**23-01-2024 TO 26-01-2024 CODE BASE LAB**

An add-on course in Python and Django web development was offered to S5 AI&DS and S5 CS(AI) students, enhancing their web application building skill. This initiative aimed to broaden technical expertise and prepare students for challenges in AI and data science.

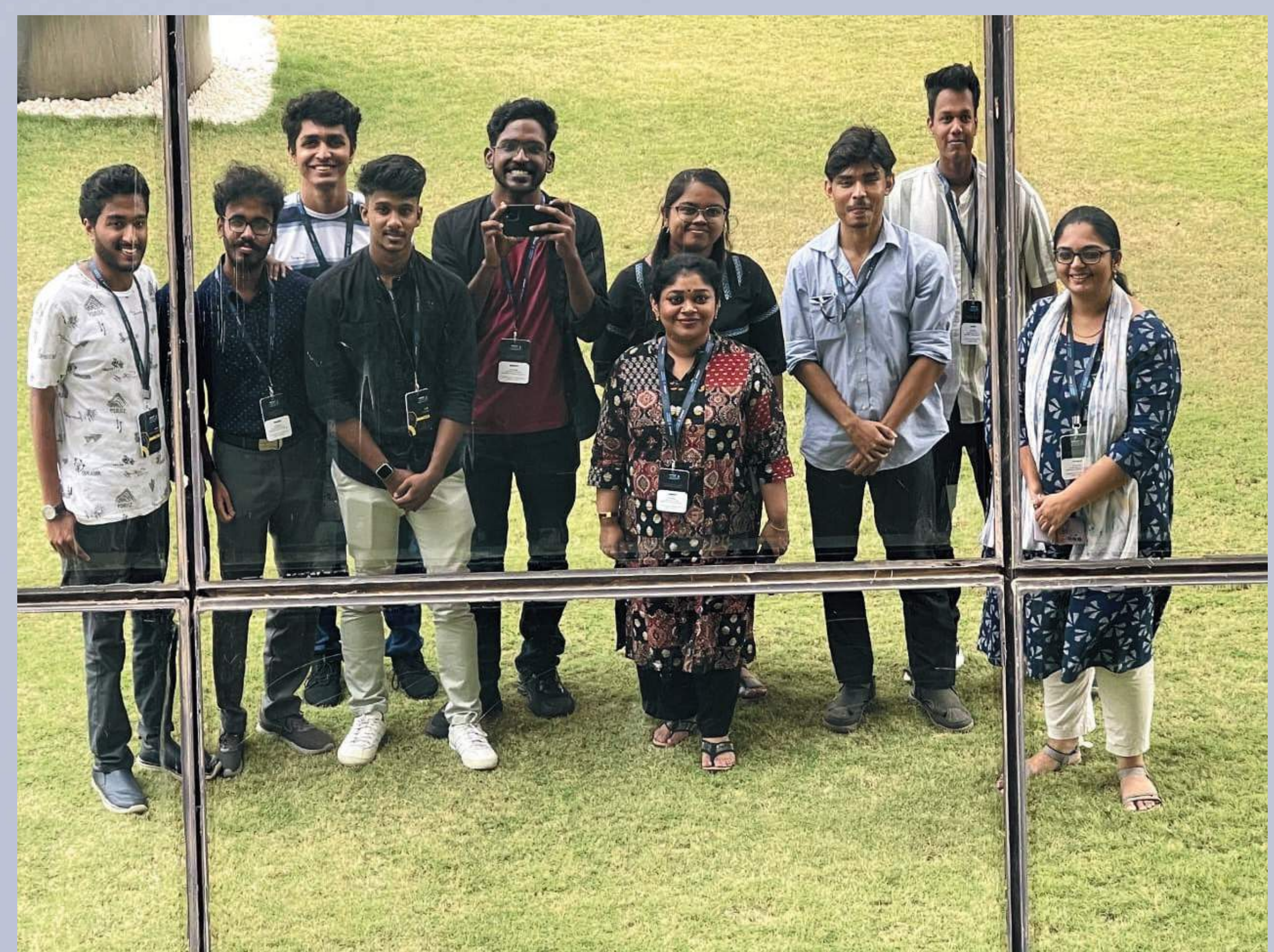




## DEPARTMENT ACHIEVEMENTS

### STUDENT VISIT

Students of AI & DS along with Ms. Jayalekshmi visited Tryzenaut launchpad event held at Tecnopark, Trivandrum



### FUNDED PROJECT

The project titled "Implementation of an AI-Powered Non-Verbal Communication Coach" by Atulkrishnan M U, Abhinav Balagopal, Sarath Chandran, and Gautham K A of CS(AI) Batch 2020-24 guided by Dr. Cerene Mariam Abraham as PI and Ms. Dimple Elizabeth Baby as Co-PI has received the KTU student project Funding of 2024.



## TINKERHUB ACTIVITIES

### GOOD DEVELOPMENT PRACTICES AND HOW TO MASTER THEM

MIT S FOSS and Tinkerhub MIT S hosted a coding workshop for second and third-year students on 31st January 2024 coordinated by Mr. Advait Narayanan (S7 CSE B) & Ms. Parvathy E N (Staff in Charge). focusing on advanced development practices\_and project management skills. This hands-on event offered a valuable opportunity to boost their careers in software development.



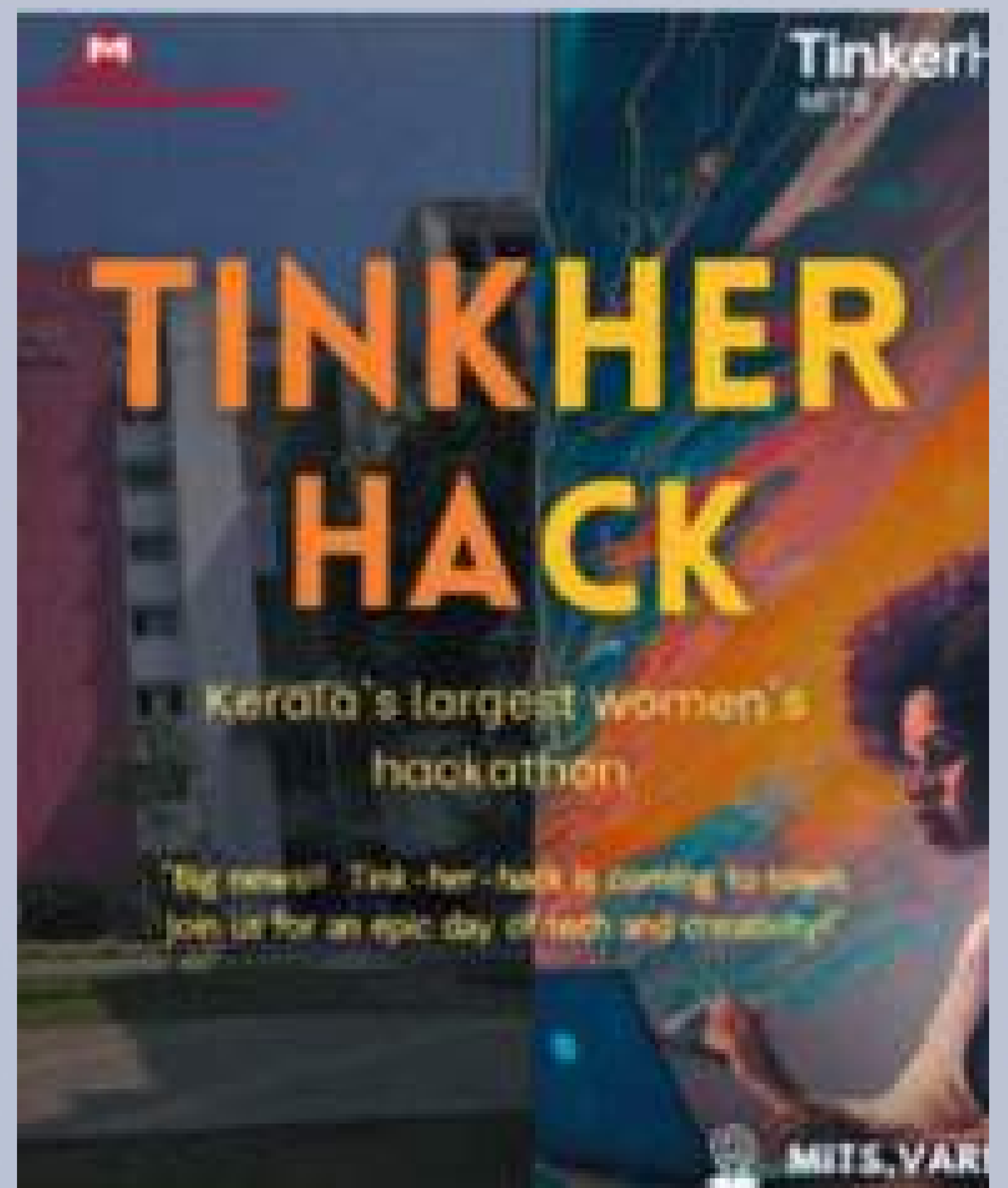


## TINKERHUB ACTIVITIES

### TINKHER HACK HACKATHON

TinkHerHack was a women-in-tech hackathon organized by TinkerHub Foundation and hosted by TinkerHub MITS on 24th and 25th February 2024. The event was coordinated by Ms. Bhavyalakshmi (S7 CSE A) and Ms. Parvathy E N (Staff in Charge).

It provided a platform for women to showcase their tech skills and collaborate on innovative projects, empowering them in the tech industry.





## TINKERHUB ACTIVITIES

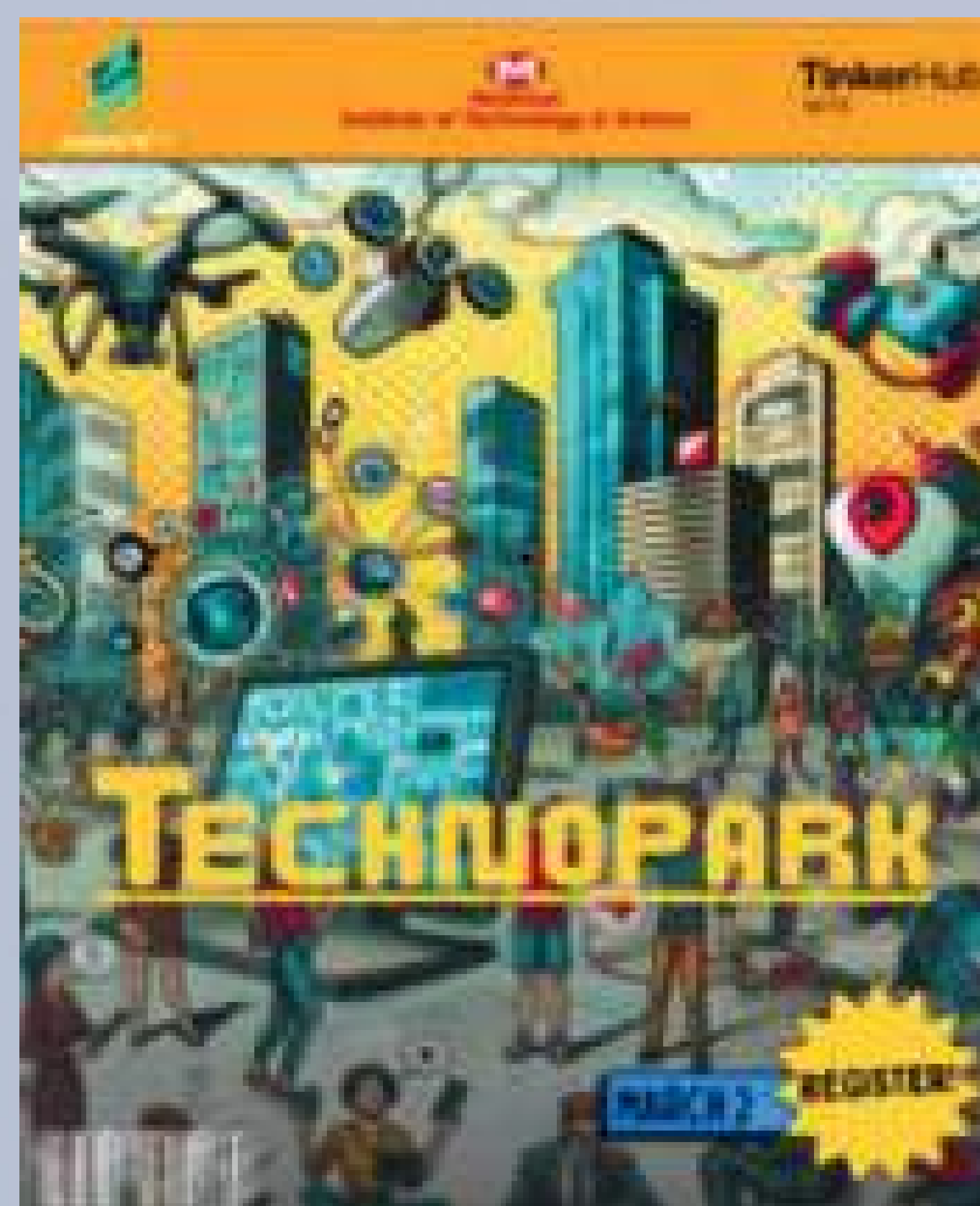
### HOSTEL HACK NIGHT

The hackathon, exclusively for women, was held on February 3Rd & 4th, 2024, both in-person at the Muthoot campus hostel and online. Ms. Bhavyalakshmi (S7 CSE A) & Ms. Parvathy E N (Staff in Charge) were the coordinators for the event.



### TECHNOPARK

On 2nd March 2024, TinkerHub MITS featured a project expo during 'SHRESHTA'; the annual college tech fest, showcasing student creations, AR-VR experiences, and fun games in collaboration with Tinkerspace. Ms. Fathima Zanha (S7 AI-DS) & Ms. Parvathy E N coordinated the event.





## FACULTY ACHIEVEMENTS

### DR. SUMAM MARY IDICULA



The 17th research scholar of Dr. Sumam Mary Idicula has successfully defended her Ph.D thesis at CUSAT in June 2024. Dr Sumam Mary Idicula has published the paper 'An answer recommendation framework for an online cancer community forum' in Multimedia Tools and Applications (SCIE) published by Springer US January 2024 and Neural Network Based Machine Translation Systems for Low Resource Languages: A Review HS Sreedeepea, SM Idicula - AIJR Proceedings, 2023 Related articles 22/12 2023 .She has a conference proceedings in the title 'An Empirical Study on Multi-source Cross-Project Defect Prediction Using Machine Learning' March 2024 in the Second International Conference on Computing, Communication, Security and Intelligent Systems. She has also participated in a Faculty Development Program (FDP) on Generative AI with hands-on training using Python.



## FACULTY ACHIEVEMENTS

### DR.CERENE MARIAM ABRAHAM

Dr.Cerene Mariam Abraham served as the evaluator of Young Innovators Technical Summit 2024 organized by DTE. Govt.of Kerala. She was the reviewer of International conference on Recent Advances in Intelligent Computational Systems held at MA college of engineering and 1st International Conference on Trends in Engineering Systems and Technologies 2024. She has participated in a FDP on Generative AI With Hands-On Training Using Python by MBCET.



### Ms.DIMPLE ELIZABETH BABY

Ms. Dimple Elizabeth Baby published the paper "Automated System for identifying Vaccinated Person by Iris Recognition Technique using Deep Learning" in AIP Conference Proceedings, 2942, 020009 (2024), which is indexed by Scopus and Web of Science. She has presented paper titled 'Lightweight Ssingle Framework for Creating Sparse Generative Pretrained Transformers of Diverse Applications Using Custom Datasets in "Fourth International Conference On Machine Learning and Big Data Analytics 2024 organized by NIT urukshetra. Ms.Dimple Elizabeth Baby has participated in Wipro TalentNext - Advanced Technology Program [ATP] on Cloud Computing on Feb 12-16 th 2024.





## FACULTY ACHIEVEMENTS

### MS.RIJA JOSE

Ms.Rija Jose has attended FDP & Workshop on Deep Learning Techniques for Text and Image Data by IIIT Kottayam. She has completed certification for the course Data Science for Engineers.



### Ms.DIVYA K.S.

Ms.Divya K.S has attended two day workshop on LLM at IIIT Kottayam. She has presented paper titled 'Aroma Detection: brief study on Olfactory Science using AI in Research Conclave on Global Transformation 2024, NIT Calicut and has completed NPTEL course on Deep Learning.



### MS.RINU ROSE GEORGE

Ms. Rinu Rose George has achieved the title of Wipro certified Java Full Stack development faculty. She has secured the appreciation certificate from Google Cloud for successfully facilitating students in the Google Cloud Career Launchpad Program and has attended FDP & Workshop on Theoretical Machine Learning by IIIT Kottayam.



### MS. SHEENA Y

NPTEL Online Certification -Big Data Computing-  
Gold Certification in December 2023





## TEAM ACHIEVEMENTS

Dr. Sumam Mary Idicula, Dr. Cerene Mariam Abraham, Ms. Angel Varghese, Ms. Dimple Elizabeth Baby, Ms. N Dharani Devi, Dr. Priya C V, Mrs. Divya K.S, Ms. Rija Jose, Ms. Sheena Y, Ms. Thasni KN, Ms. Shiji S, Mr. Sumesh MS, Ms. Anoopa S, and Ms. Anupa Tom secured the Google Cloud Computing Foundations certificate.

Dr. Sumam Mary Idicula, Dr. Priya CV, Ms. Dimple Elizabeth Baby, Ms. Rinu Rose George, Ms. Anoopa S, Ms. Anupa Tom and Ms. N Dharanidevi attended a one-day faculty immersion program on Generative AI by EY on Feb 2024.

Ms. Dimple Elizabeth Baby along with Ms. Parvathy E N delivered a hands-on session on "Unlocking AI: Hands-On Techniques and Tools for Educators" on May 28th during the Teacher's Training Program at Sanskara School.

Ms. Thasni K.N and Dr. Priya CV attended one-Week ATAL Faculty Development Program on 'Optimisation Techniques for ML/AI, held at RSET on January 8th-13th 2024.

Student team under guidance of Ms. Angel Varghese and Dr. Priya C V has received MITS Alumni Seed Money and presented their paper in Research Conclave on Global Transformation 2024, NIT Calicut.

Ms. Jayalekshmi J and Dr. Priya CV presented a paper in Research Conclave on Global Transformation 2024, NIT Calicut.



## STUDENT ACHIEVEMENTS

Joann Jibin from S4 AI-DS and Akshat Pradeep from S2 AI-DS secured first place in debate competition hosted by NSS unit, SH College



Abhinav Balagopal, Atulkrishnan M U, Gautham K A, Sarath Chandra V from S8 CSAI secured second prize in KTU KETCON 2024



The second season of Debate Premier League, the flagship annual debate competition by uLearn MITS, was conducted on the 4th and the 5th of March, 2024. The competition featured 16 participants engaging in intense intellectual battles on diverse and impactful topics, all conducted via the dynamic Discord and GMeet platforms from which Sanjay Biju of S5 CSE (AI) emerged as the champion. This event was coordinated by Aswin Lal KS, S5 EEE.





## STUDENT ACHIEVEMENTS



Tessa Cherry, Hazel Nilson, and Aparnamol KS of S4 AI &DS won the Best Team award for presenting their idea "Blendsafe" as a part of the Empower Women Entrepreneurship Programme organized by Vikram Sarabhai Space Centre (VSSC) and ISRO Inertial Systems Unit (ISU) held on the 7th of March.



## STUDENT ACHIEVEMENTS

### BEST PAPER AWARDS

Abhinav Balagopal, Atulkrishnan MU, Gautham K A, Sarath Chandra V of S8CS(AI) has got best paper award (Second prize) under Computer Science and Engineering track in KTU Techfest KETCON on Feb 2024.

Lakshmi S Nair, Sandra Skaria, Joel George, and Joel Jose of CS(AI) Batch 2020-24 has received the Best Paper award at the research conclave on global transformation organized by NIT Calicut on April 19th 2024

### KTU SCORERS

Aishwarya PS of S5 AI&DS, Nandu Rajesh of S5 CS(AI) and Habeel Shamsudeen of S5 CS(AI) obtained SGPA 10 for the S2 University exams held by KTU.

Swathy Krishna of S7 AI & DS obtained an SGPA of 10 for the S5 university exams held by KTU.

### GATE CLEARED

Gautham Krishna, Ankitha Shenoy, Arjun Hariprasad, Rajeev Thottunkal, Nanadana S, Sandra Skaria, Midhun James and Mohammed Mizhab of CS(AI) Batch 2020-24, Aanand Deva Suresh (S7 AI & DS), Abhijith Biju and Mohammed Farhan of S7 CS(AI) cleared the GATE 2024 Exams for Data Science.



## STUDENT ACHIEVEMENTS

### BEST PROJECT AWARDS

Abhimanyu Joy, Andron Ajai, Mathew Romy, and S Abhijith of 2020-24 CS(AI) batch guided by Ms. Rinu Rose George has received the first prize in the Best Project Award as part of the Project Expo held at MITS on the 6th of June 2024.

Lakshmi S Nair, Sandra Skaria, Joel George, and Joel Jose of CS(AI) Batch 2020-24 guided by Ms. Sheena Y received the second prize in the Best Project Award as part of the Project Expo held at MITS on the 6th of June 2024.

Ashik P Salim, Raed Naseer, Rajeev Thottunkal and Vishnu Prasad S of CS(AI) 2020-24 batch guided by Dr. Jina Varghese has received Best Innovative Project Award 2024 sponsored by MITS Alumni Association, OSAM.

### OTHER ACHIEVEMENTS

Joanna Merine Noble of S7 AI &DS has been selected as the Associate Community Manager of the IEEE PIE Kerala Section.

Akshara Gopan of S5 AI &DS was selected as the Most Valuable Player in the FISAT Basketball Tournament held at FISAT on the 29th of February.

Sreya K U of S7 AI&DS has been selected as the WIE Co-ordinator of the IEEE RAS Kerala Chapter.

Anand Deva of S6 AI &DS received prizes for an event conducted at the Tryzenaut launchpad event at Technopark, Trivandrum.



## STUDENT ACHIEVEMENTS-NPTEL

1. Aiswarya P S, a student of S4 AI&DS, successfully completed the NPTEL course Database Management System offered by IIT Kharagpur, achieving the Elite + Silver distinction as a topper.
2. Aarya M S, from S4 AI&DS, excelled in the NPTEL course Python for Data Science offered by IIT Madras, securing the Elite certification.
3. Alisha Mary Shibu, a student of S4 AI&DS, completed the NPTEL course Data Science for Engineers offered by IIT Madras, earning the Elite certification.
4. Anaina Samsan, from S4 AI&DS, successfully completed the NPTEL course Database Management System offered by IIT Kharagpur, achieving the Elite certification.
5. Anitta Kurian, a student of S4 AI&DS, excelled in the NPTEL course Python for Data Science offered by IIT Madras, securing the Elite certification.
6. Devapriya C C, a student of S4 AI&DS, successfully completed the NPTEL course Database Management System offered by IIT Kharagpur, earning the Elite certification.
7. Dhanush P B, from S4 AI&DS, excelled in the NPTEL course Python for Data Science offered by IIT Madras, achieving the Elite + Silver distinction.
8. Meghna Binoy, a student of S4 AI&DS, completed the NPTEL course Database Management System offered by IIT Kharagpur, securing the Elite certification.



## STUDENT ACHIEVEMENTS-NPTEL

9. Reuben Mathew Tharakan, from S4 AI&DS, successfully completed the NPTEL course Python for Data Science offered by IIT Madras, earning the Elite certification.

10. Ridha Riyas, a student of S4 AI&DS, excelled in the NPTEL course Python for Data Science offered by IIT Madras, securing the Elite certification.

11. Sravan Chand, a student of S4 AI&DS, successfully completed the NPTEL course Python for Data Science offered by IIT Madras, earning the Elite certification.

12. Blessy Mariya, from S4 AI&DS, completed the NPTEL course Database Management System offered by IIT Kharagpur, achieving a passing grade.

13. Jina Bobby, a student of S4 AI&DS, successfully completed the NPTEL course Programming, Data Structures, and Algorithms Using Python offered by IIT Madras, achieving a passing grade.

14. Johaan Saji, from S4 AI&DS, completed the NPTEL course Database Management System offered by IIT Kharagpur, earning a passing grade.

15. Joseph Manoj, a student of S4 AI&DS, successfully completed the NPTEL course Database Management System offered by IIT Kharagpur, achieving a passing grade.