

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE NEWSLETTER



VISION

Creating ethical leaders through quality professional education with emphasis on holistic excellence.

MISSION

- To emerge as an institution par excellence of global standards by imparting quality engineering and other professional programmes with state-of-the-art facilities.
- To equip the students with appropriate skills for a meaningful career in the global scenario.
- To inculcate ethical values among students and ignite their passion for holistic excellence through social initiatives.
- To participate in the development of society through technology incubation, entrepreneurship and industry interaction.

CORE VALUES

Faith in God and man · Love of fellow beings · Belief in universal citizenship · Moral integrity · Social commitment.



DEPARTMENT MISSION

Strengthening basic competencies in the domains of Artificial Intelligence and Data Science. Providing high-quality, value-based technical education and developing technology professionals with creative ideas and compelling leadership abilities. Using logical thinking to create and develop cutting-edge products in collaboration with industry stakeholders in order to meet global expectations and requirements. Enabling graduates to adapt to new technologies via strong fundamentals and lifetime learning.

DEPARTMENT VISION

Creating ethical leaders in the domain of Artificial Intelligence and Data Science through effectual teaching and learning process to develop emerging technology solutions for the benefits of industry and society with a focus on holistic learning and excellence.

PROGRAMME EDUCATIONAL OBJECTIVES

- Graduates will demonstrate comprehensive expertise in Artificial Intelligence, Machine Learning and Data Analysis, and apply interdisciplinary knowledge in Computer Science, Statistics and Advanced Mathematics to address real-world challenges.
- Graduates will innovate and create impactful solutions ethically, contributing to societal betterment, leveraging their leadership, collaboration and communication skills for effective teamwork and multidisciplinary endeavours.
- Continuously fostering a culture of lifelong learning, graduates will adapt to evolving technological landscapes, demonstrating adaptability and a commitment to ongoing professional development in the dynamic field of AI and Data Science.

PROGRAMME SPECIFIC OUTCOMES

- Graduates will be able to apply core principles of Science, Engineering and Mathematics to develop AI-driven solutions for real-world challenges.
- Graduates will design, develop and implement efficient as well as scalable algorithms using programming languages, data structures and cloud computing technologies.
- Graduates will integrate ethical, social and security considerations while developing AI-driven intelligent systems, ensuring responsible AI deployment.

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Student Spotlight and the editorial board
Tech Talk — Introduction to Data Analytics

Technical Seminar — Blockchain and Web3
VRcade — immersive virtual reality showcase
Student and Faculty Achievements

A Note from the HoD...

It is with great pleasure that I welcome you to the **second issue** of the Artificial Intelligence and Data Science Department Newsletter, covering the even semester of **2022–2023**. This edition reflects the academic seriousness, the curiosity and the energy that have come to characterise the department as we work in a field that will not hold still.

The semester's programmes were built around exposure rather than lecture. The Tech Talk on **Introduction to Data Analytics**, the **VRcade** immersive technology showcase and the technical seminar on **Web3 and Blockchain** each put our students in front of a working practitioner or a working system, and each was organised in collaboration with a body outside the department — the NDLI Club, the Google Developer Student Clubs and IEDC JECC.

We are equally proud of students who have excelled outside the classroom and brought the department recognition at national-level cultural competitions. I also congratulate **Dr. Seenia Francis** on her research contributions in AI-driven medical image analysis, which strengthen the department's research profile at an early and important stage.

We remain committed to producing skilled, ethical and future-ready professionals who can contribute to industry, academia and society. My thanks to Ms. Divya Konikkara and to Athvik S for assembling this issue.

MR. BINEESH M
Head of the Department

Student Spotlight

This semester the department's name travelled a good distance beyond Cheruthuruthy. **Arunima Anil, Rasal Harish A and Hridya Girish** reached the **National Finals of the India Hip Hop Dance Championship 2022–23**, and **Sreelakshmi Sudheer (S6 AD)** took third place in the ***Taal Pe Taal*** solo dance competition at **Ragam '23, NIT Calicut**.

Inside the department, the semester's technical programmes were student-fronted. **Mr. Sachin Raj M** led the seminar on blockchain and Web3 for his own peers, and the Tech Talk on data analytics was delivered by **Mr. Sidharth S Unnithan (S8 CS)**, co-founder of a working start-up — both of them students speaking to students, which is a format the department intends to keep.

Students are asked to send the editorial desk a line and a date whenever something happens — a competition, a certification, an internship, a workshop attended or conducted. Nothing needs polishing; it only needs to be sent.

THE SEMESTER AT A GLANCE

Date	Programme	Venue	Organised with
15 March 2023	Tech Talk — Introduction to Data Analytics	Computer Centre	NDLI Club
31 March 2023	Introduction to Blockchain and Web3	Insight Hall	Google Developer Student Clubs
31 March 2023	VRcade — immersive virtual reality showcase	Department	Department of AI & DS

Working with other bodies

Every programme this semester was run with a partner outside the department — the NDLI Club, GDSC and IEDC JECC — and each was open to students of other branches.

About this newsletter

It appears each semester with four standing sections: the HoD's note, a student spotlight, departmental activities, and student and faculty achievements.

NEWSLETTER

DEPARTMENT OF ARTIFICIAL
INTELLIGENCE AND DATA SCIENCE

IN THIS ISSUE

A Note from the HoD — the even semester of 2022–2023

Student Spotlight — competing beyond the campus

Introduction to Data Analytics — Tech Talk, 15 March 2023

Introduction to Blockchain and Web3 — 31 March 2023

VRcade — immersive virtual reality showcase, 31 March 2023

Student and Faculty Achievements

THE SEMESTER IN NUMBERS

03 departmental and club programmes conducted in March 2023.

03 collaborating bodies — the NDLI Club, the Google Developer Student Clubs and IEDC JECC.

04 students carried the department's name to national and inter-collegiate stages.

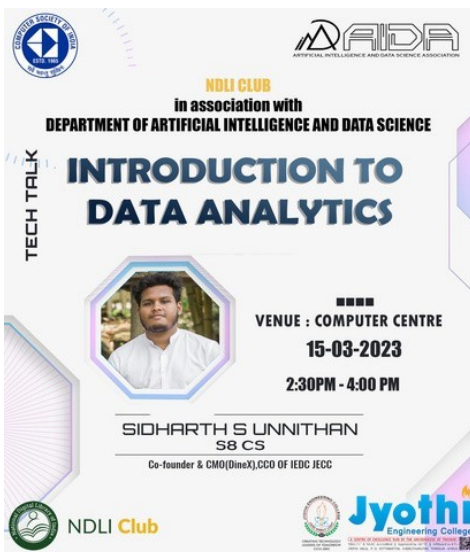
02 research papers published by the department's faculty in medical AI.

DEPARTMENT HIGHLIGHTS

Tech Talk — Introduction to Data Analytics

Introduction to Data Analytics, a Tech Talk organised by the **NDLI Club** in association with the Department of Artificial Intelligence and Data Science, was conducted on **15 March 2023** at the Computer Centre.

The session was led by **Mr. Sidharth S Unnithan (S8 CS)**, Co-founder and CMO of DineX and CCO of IEDC JECC. He took students through the fundamentals of data analytics, its applications and the career openings now forming around it. The session was interactive throughout and gave a practical view of data-driven decision-making and of how the work is actually done in industry.



The Tech Talk poster — 15 March 2023, Computer Centre.

VRcade — an immersive VR showcase

VRcade, an immersive virtual-reality experience event, was organised by the department on **31 March 2023**. It gave students the chance to use current VR equipment and move through interactive virtual environments at first hand.

Participants came away with a clearer sense of where virtual reality is being applied — in gaming, in education, in healthcare and in industrial training. The programme drew considerable enthusiasm and raised awareness of immersive technology across the department.



VRcade — 31 March 2023.

Introduction to Blockchain and Web3

Introduction to Blockchain and Web3, organised in collaboration with the **Google Developer Student Clubs (GDSC)** and the Department of Artificial Intelligence and Data Science, was conducted on **31 March 2023** at the Insight Hall.

The session was led by **Mr. Sachin Raj M**, who introduced participants to the fundamentals of blockchain technology, cryptocurrencies, smart contracts and the Web3 ecosystem. Students left with a working sense of what decentralised systems can and cannot do, and of the claims now being made for the next phase of the internet.

NEWSLETTER

ACADEMIC YEAR 2022 - 2023

RESOURCE PERSONS

Mr. Sidharth S Unnithan (S8 CS) — Co-founder and CMO, DineX; CCO, IEDC JECC. Introduction to Data Analytics.

Mr. Sachin Raj M — Introduction to Blockchain and Web3.



ORGANISED WITH

NDLI Club — National Digital Library of India club at JECC.

Google Developer Student Clubs (GDSC), Jyothi Engineering College.

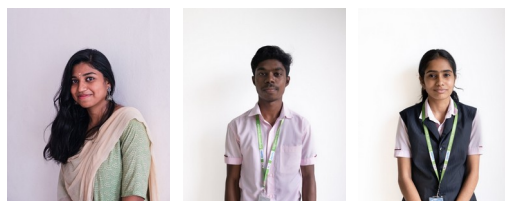
IEDC JECC — Innovation and Entrepreneurship Development Centre.

STUDENT & FACULTY ACHIEVEMENTS

India Hip Hop Dance Championship 2022-23

The Department of Artificial Intelligence and Data Science congratulates **Arunima Anil**, **Rasal Harish A** and **Hridya Girish** on securing a place in the **National Finals** of the India Hip Hop Dance Championship 2022-23.

Their dedication, talent and hard work have brought great pride to the institution, and the department wishes them continued success in the competitions ahead.



Arunima Anil

Rasal Harish A

Hridya Girish

Ragam '23, NIT Calicut

Sreelakshmi Sudheer (S6 AD) secured **third place** in the ***Taal Pe Taal*** solo dance competition at Ragam '23, NIT Calicut — one of the largest cultural festivals in South India. Her performance brought laurels to the institution and showed a level of talent the department is glad to record.



Sreelakshmi Sudheer of S6, AD has secured **third place** in **Solo Dance Competition** **"Taal Pe Taal"** as a part of **Ragam - 23 NIT Calicut**.

Sreelakshmi Sudheer (S6 AD) — third place, Taal Pe Taal, Ragam '23.

Faculty Achievements

Dr. Seenia Francis achieved notable academic recognition through the publication of **two research papers in medical AI**, contributing to advances in **medical image segmentation** and **clinical computer vision**.

Work of this kind matters to a young department for two reasons: it keeps the teaching close to the current state of the field, and it gives students a route into research while they are still undergraduates.



Dr. Seenia Francis, Associate Professor.

Looking ahead

The department will continue to build its calendar around working practitioners and hands-on sessions, and to open its programmes to students of other branches through the NDLI Club, GDSC and IEDC.

EDITORIAL BOARD

Editor: Ms. Divya Konikkara, Assistant Professor

Student Editor: Athvik S

Department of Artificial Intelligence and Data Science

NEWSLETTER

ACADEMIC YEAR 2022 - 2023

ACHIEVEMENTS AT A GLANCE

Arunima Anil, **Rasal Harish A**, **Hridya Girish** — National Finals, India Hip Hop Dance Championship 2022-23.

Sreelakshmi Sudheer (S6 AD) — third place, **"Taal Pe Taal"** solo dance, Ragam '23, NIT Calicut.

Dr. Seenia Francis — two published research papers in medical image segmentation and clinical computer vision.

EDITORIAL BOARD

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