



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

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Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada.

L.B.REDDY NAGAR, MYLAVARAM NTR District, AP, India. 521230.

hodads@lbrce.ac.in , ads@lbrce.ac.in , Phone: 08659-222933, Fax: 08659-222931

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

EVENT REPORT ON FULL STACK DEVELOPMENT WORKSHOP & HACKATHON

Event Type	: Workshop
Date	: 01.09.2025 to 08.09.2025
Venue	: AI&DS Seminar Hall
Resource Person(s)	: Mr. Tirumala Chary, SDE, Streak BS Mr. Sk. Naggor Meera, Senior Software Engineer, Streak BS
Name of the Convener	: Dr. P. Bhagath, Head of the Department AI & DS
Name of the Coordinator(s)	: Mr. S.V.V.D.Jagadeesh, Sr. Assistant Professor, AI&DS Mr. J Naga Raju, Sr. Assistant Professor, AI&DS
Targeted Audience	: B.Tech VI Sem AI&DS Students
Total No. of Students	: 145

About the Event

A One-Week Workshop on Full Stack Development was successfully organized by the Department of Artificial Intelligence and Data Science (AI&DS) for V Semester B.Tech (AI & DS) students. The workshop was conducted from 1st September 2025 to 6th September 2025 at the AI&DS Seminar Hall, between 09:00 AM and 04:00 PM.

The program was conducted in collaboration with industry experts from *Streak BS* with the objective of equipping students with practical knowledge and hands-on experience in modern web development technologies. The workshop was coordinated under the guidance of Dr. P. Bhagath (HOD–AI&DS) along with faculty coordinators and organizing team members of the department.

The workshop was designed as an intensive training program focusing on both theoretical understanding and real-time implementation of full stack technologies.

Objectives of the Event

The primary objectives of the workshop were:

- To provide a strong foundation in front-end development concepts including user interface design and responsive web applications.
- To enable students to develop server-side business logic and understand backend architecture.
- To introduce students to database connectivity, particularly with MongoDB.
- To train students in microservices architecture and configuration.
- To demonstrate cloud-level deployment techniques for real-world application hosting.
- To bridge the gap between academic learning and industry requirements.
- To enhance problem-solving skills through practical implementation and project-based learning.

3. Description of the Event

The workshop commenced with an inaugural session presided over by the Head of the Department and faculty members. The importance of full stack development in the current IT industry was highlighted, emphasizing career opportunities in web technologies, cloud computing, and microservices architecture.

Technical Sessions Covered:

Day 1 & 2 – Front-End Development

Students were introduced to:

- HTML, CSS, and JavaScript fundamentals
- Responsive web design
- UI/UX principles
- Building interactive web pages

Hands-on sessions allowed participants to design and develop dynamic user interfaces.

Day 3 – Server-Side Business Logic

Participants learned:

- Backend development concepts
- Handling HTTP requests and responses

- REST API development
- Integration between front-end and back-end

Practical demonstrations were conducted to build server-side applications.

Day 4 – MongoDB Connectivity

Students were trained on:

- Database fundamentals
- CRUD operations
- Connecting applications to MongoDB
- Data modeling and schema design

Real-time examples were used to demonstrate database integration.

Day 5 – Microservices Configuration

The session focused on:

- Understanding monolithic vs microservices architecture
- Service decomposition
- API gateway concepts
- Inter-service communication

Students explored how scalable and modular systems are built in industry.

Day 6 – Cloud-Level Deployment

The final day covered:

- Application deployment strategies
- Hosting full stack applications
- Cloud platform basics
- Production-level configuration

Students deployed their developed applications, gaining exposure to real-world deployment environments.

Throughout the workshop, interactive coding sessions, doubt clarification sessions, and mini-assignments were conducted. Participants actively engaged in discussions and hands-on implementation tasks.

Outcomes of the Event

The workshop achieved significant academic and technical outcomes:

- Students developed a **complete full stack web application** integrating front-end, backend, and database components.
- Participants gained practical exposure to **industry-standard tools and frameworks**.
- Improved understanding of **microservices architecture and cloud deployment**.
- Enhanced ability to design, develop, and deploy scalable web applications.
- Strengthened problem-solving and debugging skills.
- Increased confidence among students to undertake internships and industry projects.
- Encouraged collaborative learning and teamwork.

By the end of the workshop, students demonstrated a comprehensive understanding of full stack development lifecycle — from design to deployment. The workshop proved to be highly beneficial in preparing students for industry demands and future technical advancements.

Gallery:

One-Week Workshop on Full Stack Development



For V Sem B.Tech (AI&DS)

Organized by
**Department of
Artificial Intelligence and Data Science**



1 - 6 Sep 2025



Venue: AI&DS Seminar Hall



Timings: 09:00 AM - 04:00 PM



Registration
Rs 650/-

Objectives

- Understand Front-end concepts
- Develop Business Logics
- Implement Microservices

Topics to be covered

- Front-End Development
- Server-Side Business Logic
- MongoDB Connectivity
- Microservices Configuration
- Cloud-level Deployment

Registration Link:

<https://shorturl.at/ci8yq>



Jagadeesh 9030975780

Nagaraju 9948554490



Organizing Team

Dr. P Bhagath, HOD-AI&DS, Converner

Mr. SVVD Jagadeesh, Coordinator

Mr. J. Nagaraju, Coordinator

Mrs. V Sowjanya

Mr. S. Ramesh

Mrs. K. Lakshmi Padmavath

All the faculty members of AI&DS



Full Stack Development

One Week WorkShop

Department of
Artificial Intelligence and Data Science

Collaboration with



1 Sep 2025 to 6 Sep 2025



Venue
AI&DS Seminar Hall





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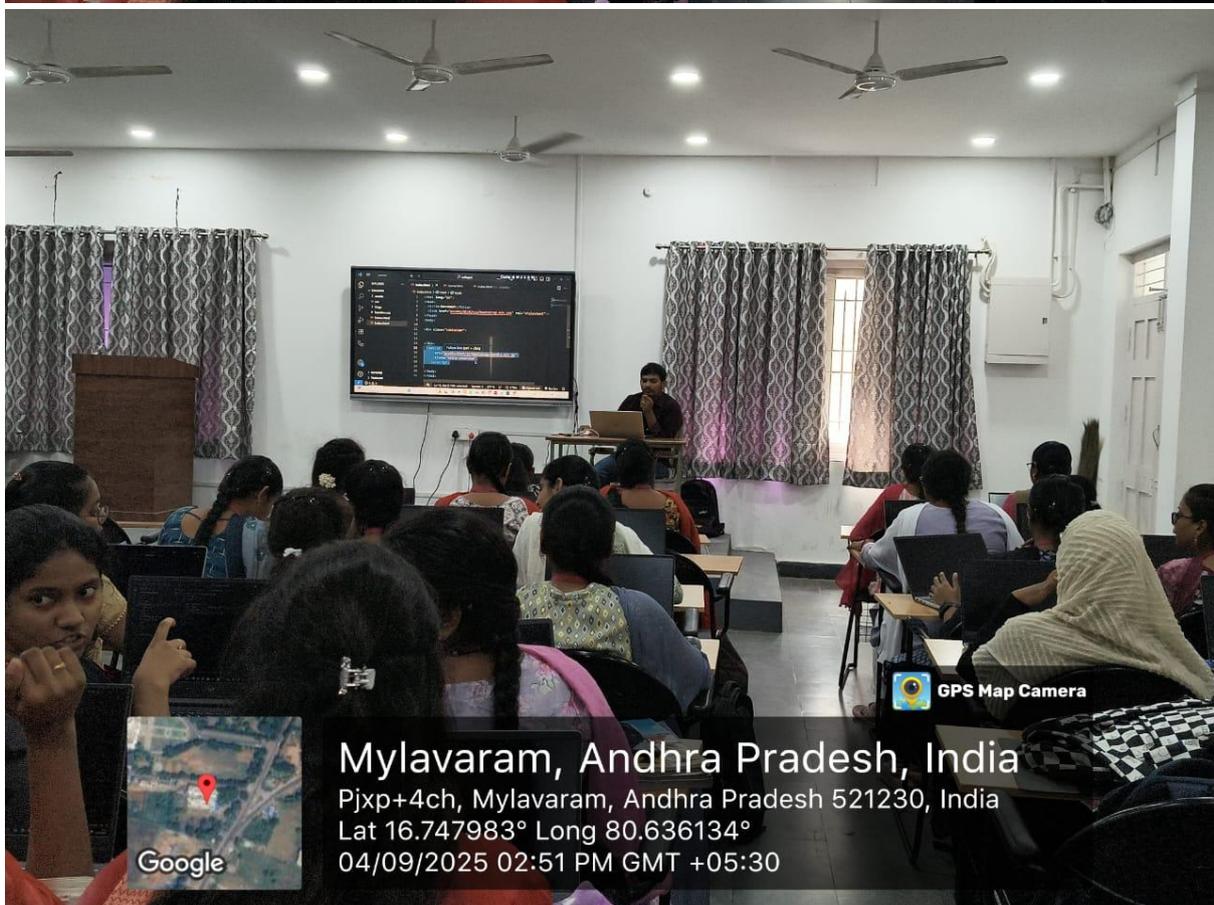
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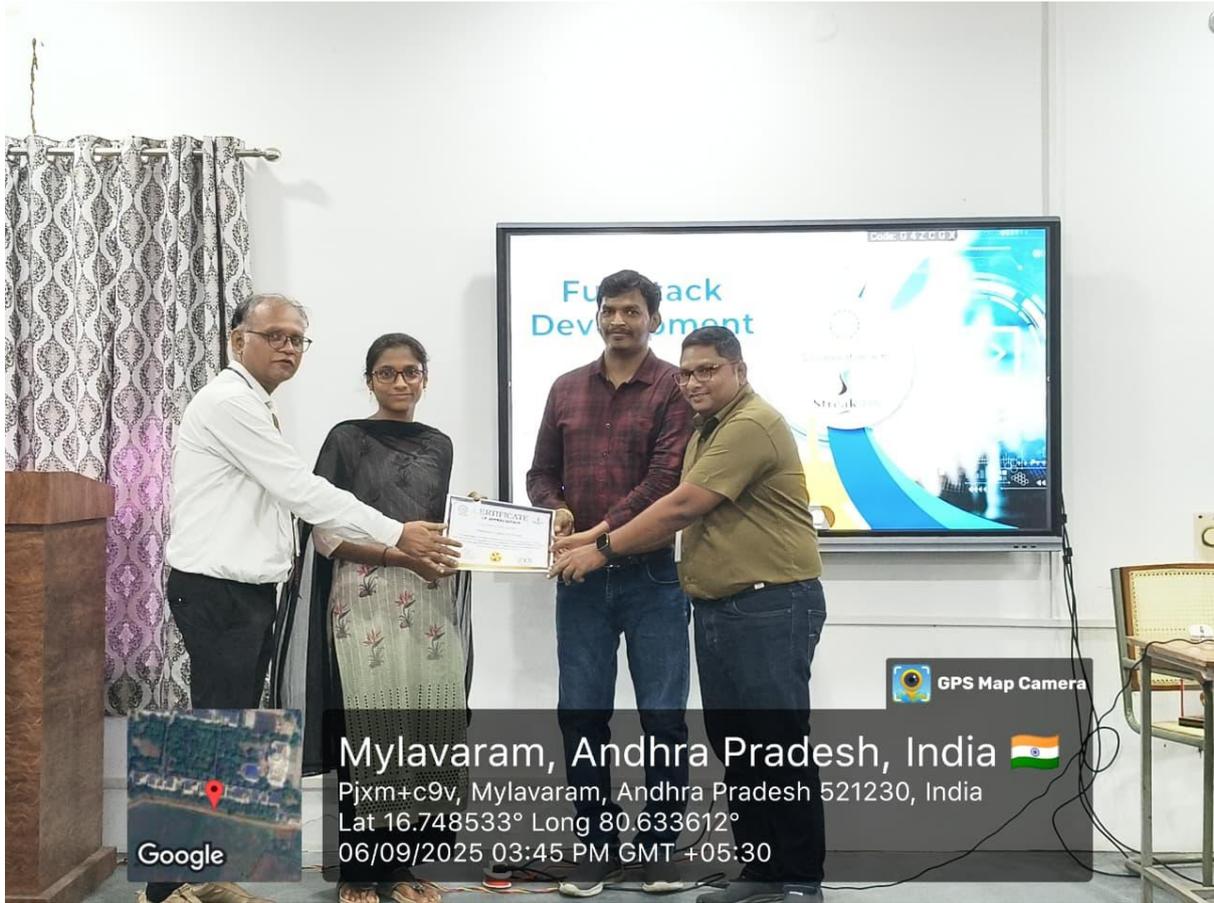
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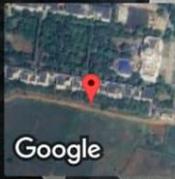
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Full Stack Development Hackathon

Department of Artificial Intelligence and Data Science

08-09-2025

Venue: Data Science Lab

Collaboration with StreakBS

Google

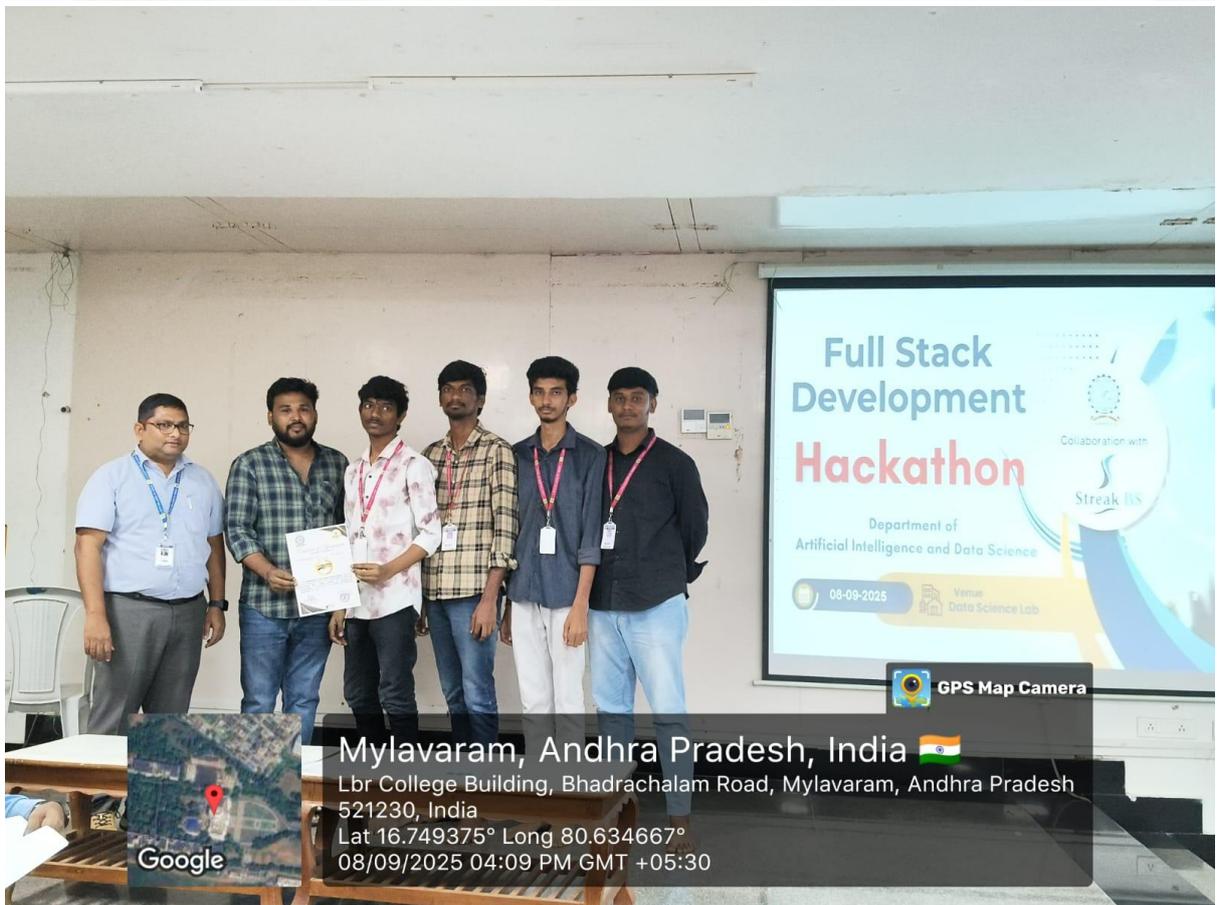
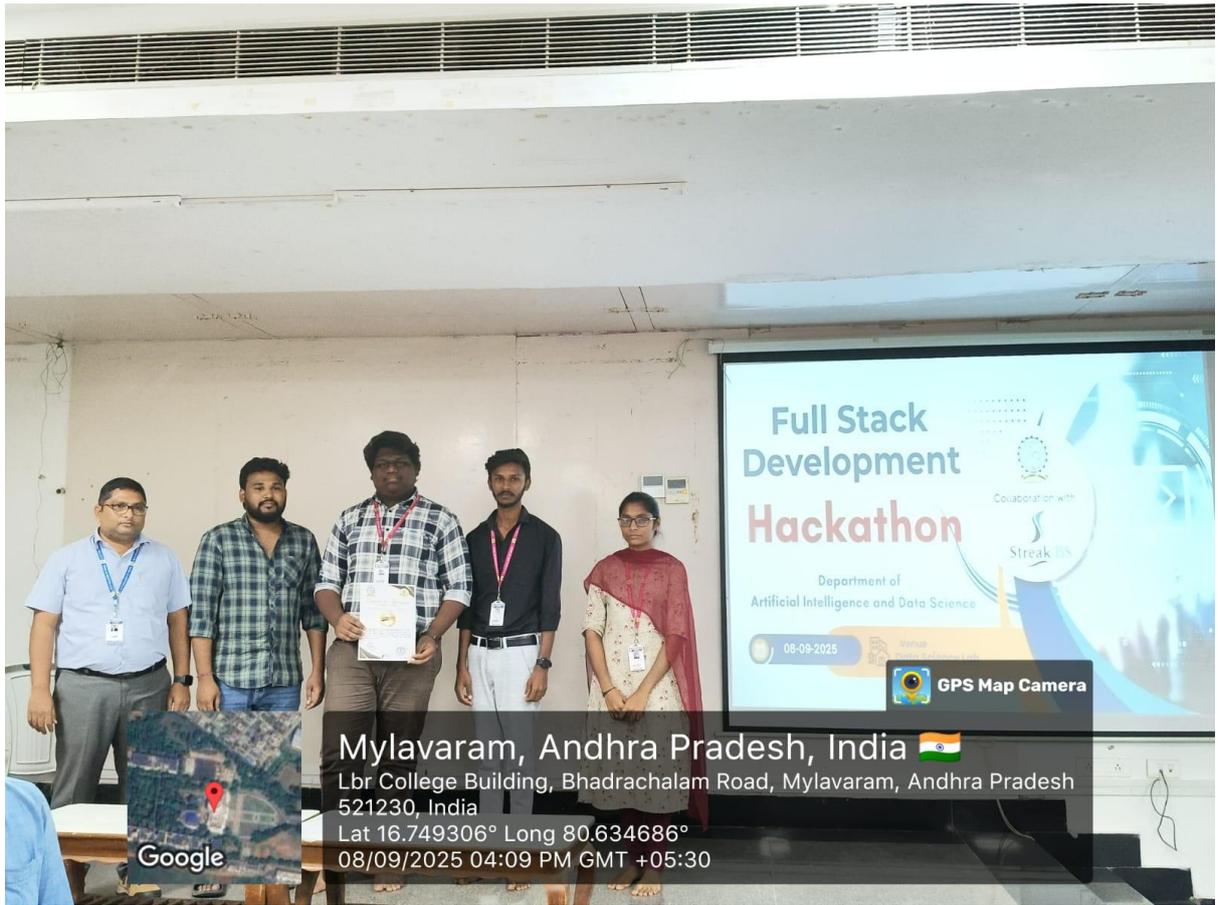
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Convenor
Dr. P.Bhagath
HOD, AI&DS.