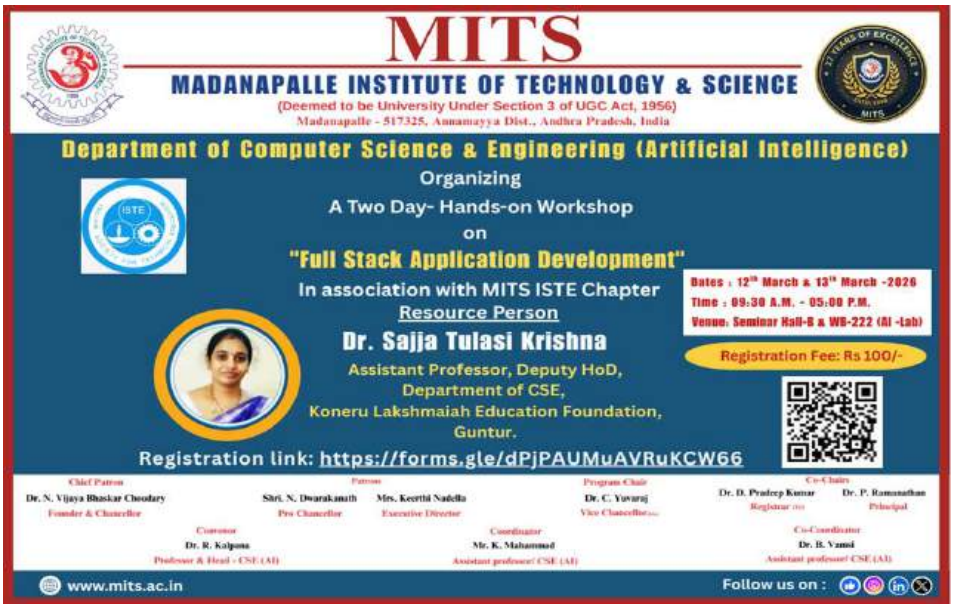
A Report on Two Day Hands-on Workshop on "Full Stack Application Development" Organized By Department of CSE- Artificial Intelligence in Association with MITS ISTE Student Chapter on 12.03.2026 & 13.03.2026



Report Submitted by: Mr. K. Mahammad Assistant Professor, Dept. of CSE (AI), MITS.
Participants: 50 Participants (II Year CAI Students)
Date and Time: 12.03.2026 & 13-03-2026, 9:30 A.M to 05:00 P.M IST
Mode of Conduct: Offline (Physical Mode)
Venue: Seminar Hall-B and WB-222 Lab
Registration Link: https://forms.gle/dPjPAUMuAVRuKCW66

Department of Artificial Intelligence in Association with Indian Society for Technical Education (ISTE) Organised a Two Day Hands-on Session on "Full Stack Application Development" in MITS-Seminar Hall-B on March 12th 2026 from 9:30 A.M to 10:30 A.M. and Practical hands-on session in SRB-223 Lab on 12st March 2026 and 13th March 2026.

The event was inaugurated on 12.03.2026 at 9:30 A.M by inviting the Department IEEE Coordinator, Mr. K. Mahammad, to the dais, followed by the Head of the Department of AI, Dr. R. Kalpana, Dr. K. Chokkanathan, Associate Professor, Department of CAI, and the resource person, Dr. S. Tulasi Krishna, Assistant Professor and Deputy HoD of CSE, KL University, Guntur. Ms. B. Bhavyasree (24691A3139) introduced the esteemed speaker by presenting her profile. Each dignitary shared valuable insights and wished the success of the program. Following the formal addresses of the resource person, as a token of appreciation, the she was felicitated by the Head of the Department, Dr. R. Kalpana, along with the faculty members of the department, then she took over the session and commenced the lecture.

The resource person started the session by extending her hearty thanks to the participants, organizing members, HoD, Principal and Management of MITS Madanapalle for giving opportunity to share his knowledge and experience on "Full stack application development".

Workshop Schedule

Day 1:

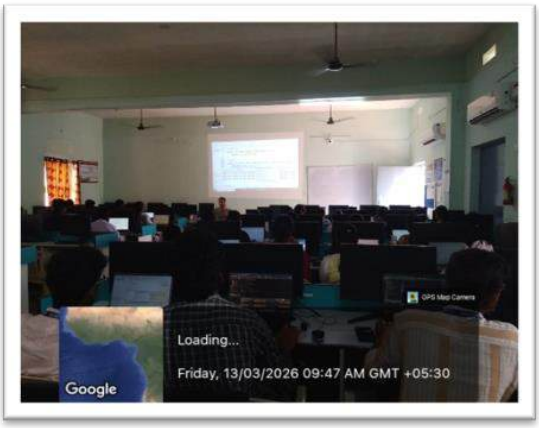
The first day of the workshop covered important topics related to software development. The guest speaker explained the basics of Full Stack Development, its architecture, and development workflow. Participants were guided to install and set up tools such as JDK, Spring Boot, MySQL, GitHub.The speaker also introduced front-end technologies like HTML, CSS, and JavaScript. Students created a simple login and registration form and participated in hands-on activities. They also created a starter Spring Boot project and connected it with GitHub.

Session 1 (Morning):

- Introduction & Environment Setup
- Overview of Full Stack Development (architecture, workflow).
- Tools installation: JDK, Spring Boot, MySQL, GitHub.
- IDE setup (VS Code).
- Hands-on: Create starter Spring Boot project and connect with GitHub.

Session 2 (Afternoon):

- Front-End Development
- Basics of HTML, CSS, JavaScript.
- Building a simple responsive web page (login/registration form).
- Hands-on: Develop and validate front-end form, push code to GitHub.The sessions provided valuable theoretical and practical knowledge, helping participants understand foundational concepts.



Day 2:

The second day of the workshop focused on back-end development and application integration. The guest speaker explained Spring Boot architecture, REST API development. Participants also learned how to connect Spring Boot with MySQL using JPA/Hibernate and tested the APIs using Postman. In the afternoon session, the speaker explained how to connect the front-end with back-end APIs and introduced Git basics such as commit, push, and pull. A deployment process using GitHub and Heroku/AWS was also demonstrated. Students performed hands-on activities to integrate the front-end with APIs and deploy the application.

Session 3 (Morning):

- Back-End Development with Spring Boot & MySQL
- Spring Boot architecture (controllers, services, repositories).
- REST API development (CRUD operations).
- Database integration with MySQL using JPA/Hibernate.
- Hands-on: Create APIs for user management and test with Postman.

Session 4 (Afternoon):

- Integration & Deployment, Connecting front-end with back-end APIs.
- Git basics (commit, push, pull, branching),
- Deployment workflow demonstration (GitHub → Heroku/AWS).
- Hands-on: Integrate front-end with APIs, deploy complete application.

All the students actively interacted with the resource person and clarified their doubts on the topics covered during the workshop, including Full Stack Development, Spring Boot architecture, REST APIs, and database integration. They gained both theoretical understanding and practical knowledge through hands-on sessions and demonstrations conducted during the program. The interactive sessions helped participants strengthen their understanding of front-end and back-end development along with application integration and deployment.

Vote of Thanks and Felicitation

The resource person was felicitated with a shawl and a memento as a token of appreciation for their valuable contribution to the workshop. The felicitation was carried out by the HoD in the presence of all faculty members, program coordinators, and participants, acknowledging the guidance and efforts of the resource person.

The Vote of Thanks was given by **Dr. B. Vamsi, Program Coordinator**, who thanked the resource person for their valuable sessions and appreciated the active participation of the students. He also thanked the management, HOD, and faculty members for their support in making the workshop successful. The session ended with the honorable gesture of Dr. K. Chokkanathan, Associate Professor, Department of CAI, and one more time he emphasized the importance of physical workshops and its benefits.

Outcome of the Session

The workshop successfully provided participants with:

- Basic understanding of Full Stack Application Development concepts.
- Hands-on experience with front-end technologies like HTML, CSS, and JavaScript.
- Knowledge of back-end development using Spring Boot and REST APIs.
- Understanding of database connectivity using MySQL and JPA/Hibernate.
- Exposure to Git, GitHub, and basic application deployment.

Newspaper Clips:

సూర్య

మిట్స్ యూనివర్సిటీలో ఫుల్ స్టాక్ అప్లికేషన్ డెవలప్మెంటుపై వర్క్‌షాప్

- గుంటూరు నుంచి హాజరైన ఇన్స్టిట్యూట్ ప్రొఫెసర్ డాక్టర్ నజ్ల తులసి క్రిష్ణ

ఆంధ్రప్రభ

మిట్స్ యూనివర్సిటీలో ఫుల్ స్టాక్ అప్లికేషన్ అభివృద్ధిపై సదస్సు

విద్యార్థులకు అవగాహన కల్పిస్తున్న అసిస్టెంట్ ప్రొఫెసర్ తులసి కృష్ణ

విశాలాంధ్ర

మిట్స్‌లో పూర్తి స్థాయి అప్లికేషన్ అభివృద్ధిపై రెండు రోజుల కార్యాగారం

ABN ఆంధ్రజ్యోతి

నైపుణ్యాలను ప్రదర్శిస్తే మెరుగైన ఉద్యోగావకాశాలు

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