Sri SAIRAM COLLEGE OF ENGINEERING
Anekal, Bengaluru

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ISO 9001:2015 Certified Institution
Approved by AICTE, New Delhi
Affiliated to Visvesvaraya Technological University
www.sairamce.edu.in

Department of Artificial Intelligence and Machine Learning



28.09.2026

Submitted,

Sub: Report- Hands on Workshop on "MERN Stack- From Concepts to Real App"- Reg.,

The Department of Artificial Intelligence & Machine Learning at Sri Sairam College of Engineering, Anekal, Bengaluru, in active association with the IEEE Robotics & Automation Society (Bangalore Section), successfully organized a comprehensive full-day technical workshop titled **"Full Stack Web Development: MERN Stack – From Concepts to Real App"**. The session took place on **September 24, 2026**, running from 9:00 AM to 4:00 PM. Designed specifically to bridge the gap between academic theory and practical software engineering, the workshop offered students an intensive hands-on experience in building modern web applications from the ground up.

The primary technical session was conducted by **Mr. Pavan Prakash K**, Software Development Engineer at Playlexity, Chennai. Drawing from his real-world industry experience, Mr. Pavan Prakash led the participants through the core lifecycle of software application engineering: **Build, Develop, and Deploy**. Rather than focusing solely on syntax, the instruction emphasized real-world development workflows, application structure, and best practices used in corporate software engineering environments.

The core subject matter of the workshop was centered around the four key technology pillars that comprise the MERN Stack: MongoDB, Express.js, React, and Node.js. The morning sessions began with backend development, focusing on runtime setup using **Node.js** and web application server routing via **Express.js**. Participants gained detailed insight into creating RESTful APIs, handling asynchronous requests, and establishing middleware to manage server-side business logic effectively.

Following the backend architecture, the focus shifted toward data persistent storage and client-side presentation. Attendees were introduced to NoSQL database management using **MongoDB**, learning how to design flexible schemas and execute real-time database operations. For the interactive frontend layer, the workshop covered component-driven development with **React**, demonstrating how state management and component lifecycle Hooks can be leveraged to build fast, reactive user interface components.

The final phase of the technical workshop covered application integration and modern cloud deployment strategies. Participants observed how to connect the React frontend seamlessly to Express endpoints and deploy the final full-stack product live onto modern cloud servers. By demonstrating the complete workflow from a clean code base to a fully functional online web application, the session imparted practical technical skills necessary for software development careers.

The organizational success of the workshop was made possible through dedicated administrative and faculty supervision. The event was coordinated by **Dr. P. Rupa Ezhil Arasi**, under the departmental leadership of **Dr. Sivaprakash C** (Prof & Head, AIML). The interactive nature of the workshop left participants equipped with practical engineering concepts ready for industry application.

Coordinator

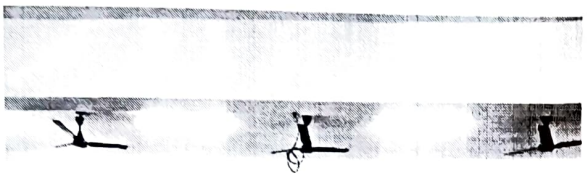
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Glimpse of the Event













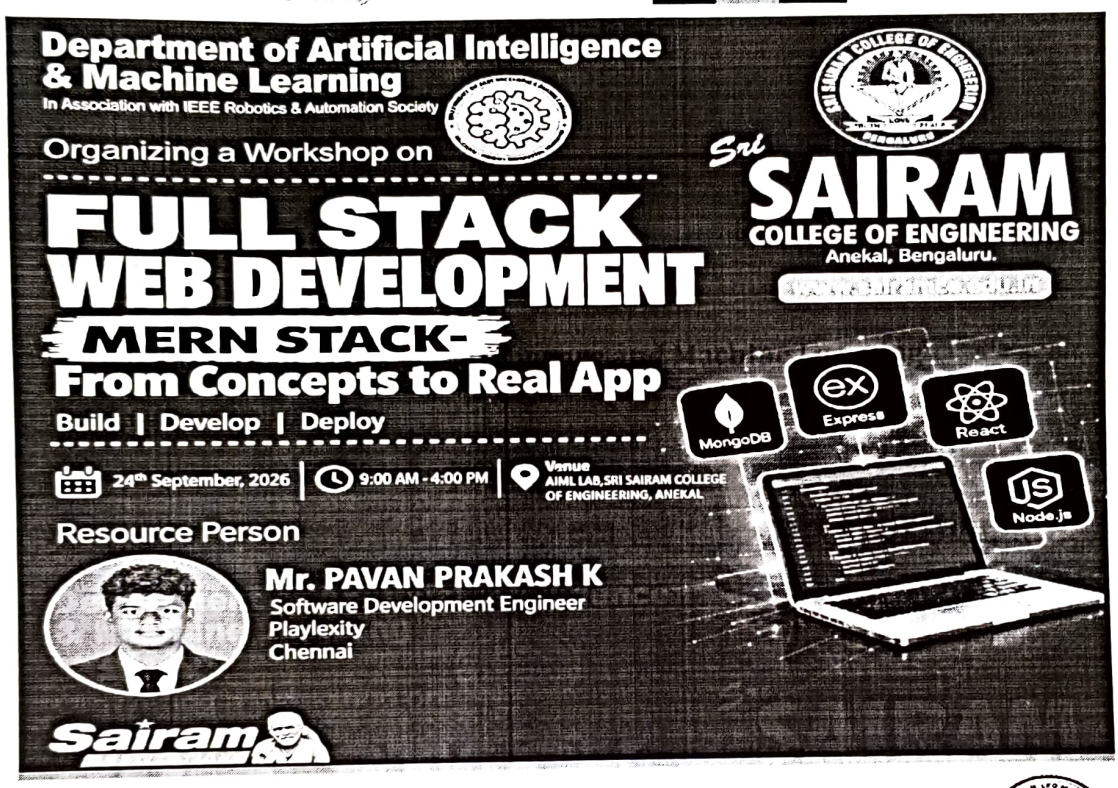




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Dr. P. Rupa Ezhil Arasi	Dr. Sivaprakash C	Dr. B. Shadaksharappa	Dr. Sai Prakash LeoMuthu
Co-ordinator	Prof & Head, AIML	Principal	Chairman & CEO Sairam Institutions

29/09/2026

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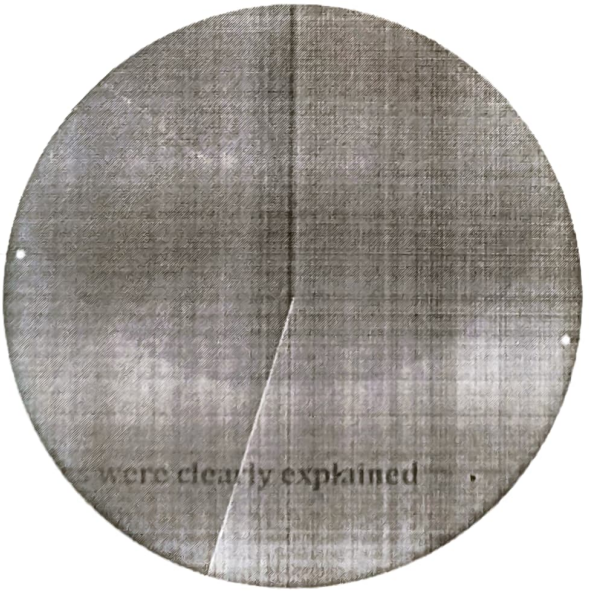
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Students Feedback

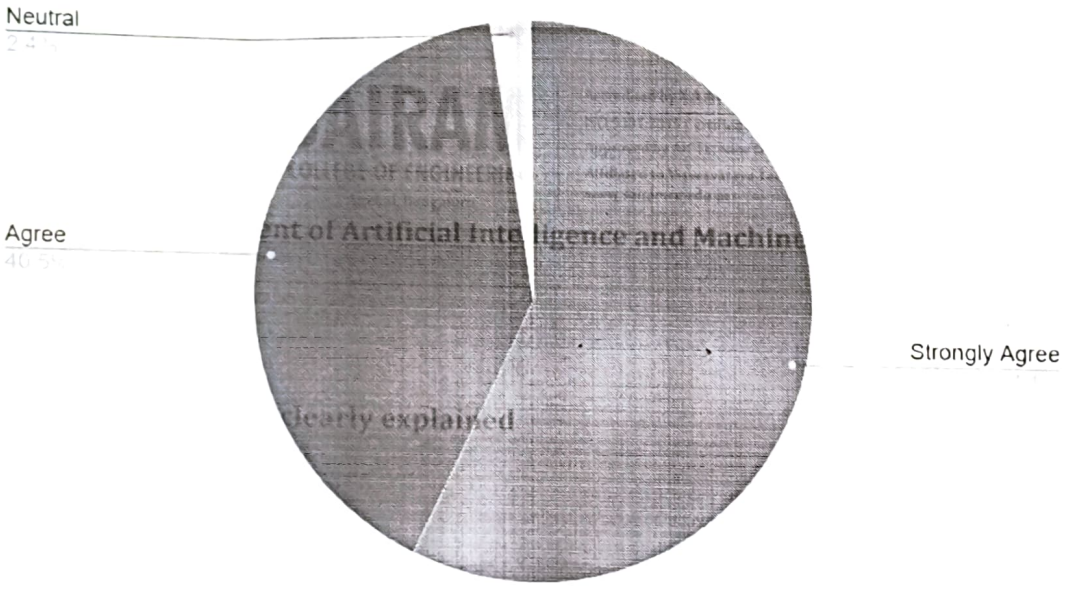
1. The content covered in the Workshop was



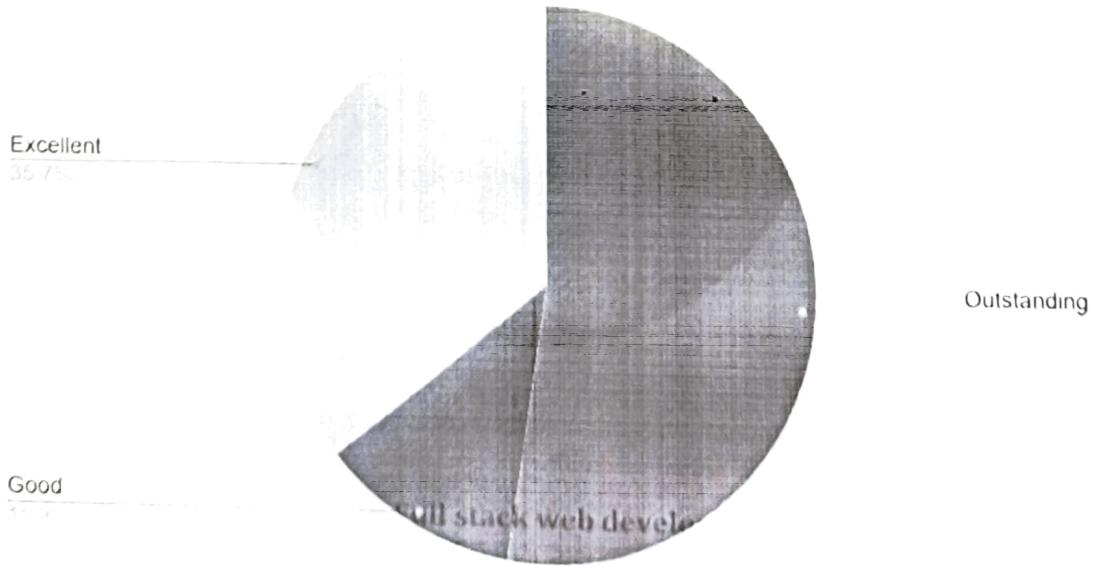
2. The session objectives were clearly explained



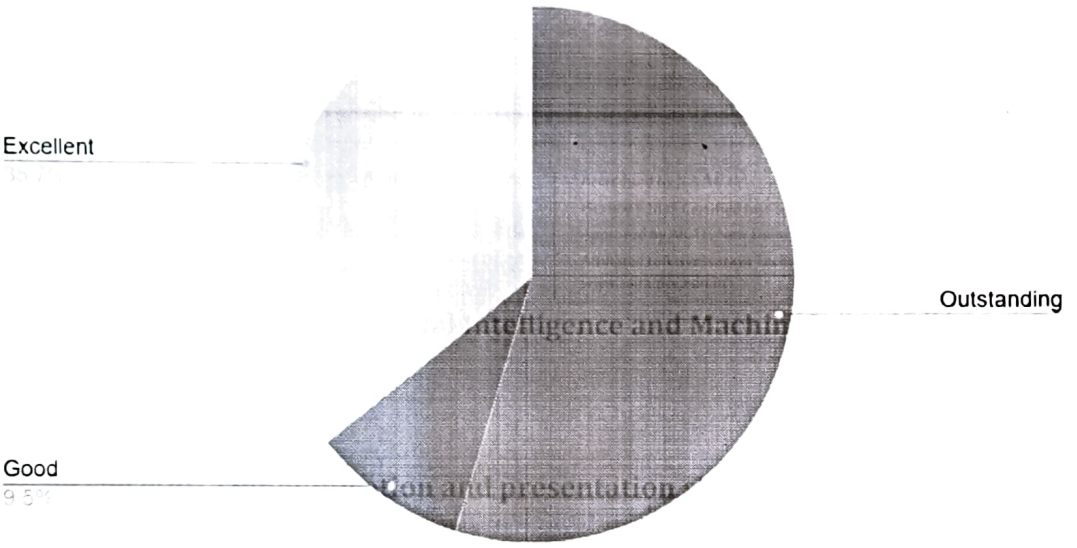
3. The context were clearly explained



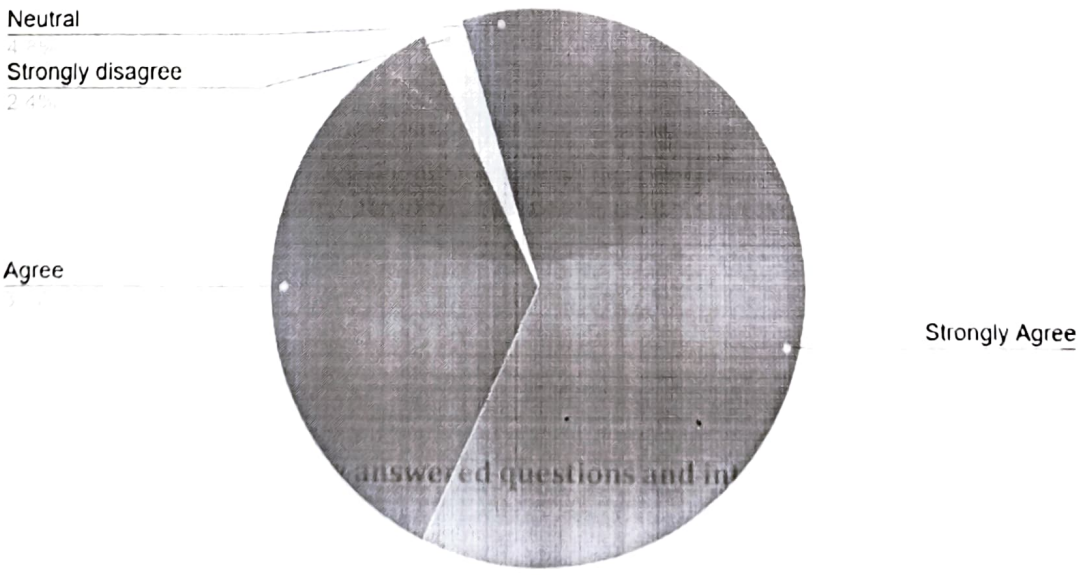
4. The speakers expertise in Full stack web development was



5. The speakers communication and presentation skills were



6. The speakers effectively answered questions and interacted with the participants



7. Overall Experience on the workshop

