

Program Report

Talk on “Building for the Next Decade”

A talk on “**Building for the Next Decade**” was organized on **5 September 2026** for the **4th Year students of Information Technology (IT) and Computer Science & Engineering (Artificial Intelligence and Machine Learning) [CSE(AIML)]**. The programme was conducted in **online mode** with the objective of providing students with practical guidance on the technologies, skills, and career pathways that are expected to shape the AI-driven technology landscape in the coming decade.

The session was delivered by **Mr. Ratul Das**, an **AI and Data Architect, Developer, Team Lead, and Technical Lead at IBM**. With his professional experience in AI, data, and software technologies, the speaker provided students with valuable insights into the evolving requirements of the technology industry and the skills needed to prepare for emerging career opportunities.

The talk covered several important technology domains, including **Cloud Computing, Data Engineering, Data Science, Deep Learning, and Agentic AI**. The speaker discussed how these areas are interconnected and how students can progressively build their knowledge and practical skills to develop a strong foundation for an AI-era career.

The session emphasized that students should move beyond learning individual technologies and develop a **structured and practical learning roadmap**. The discussion highlighted the importance of understanding fundamental programming and computer science concepts, followed by hands-on learning in cloud platforms, data management and engineering, data analysis, machine learning, deep learning, and emerging AI technologies such as agentic AI.

Particular emphasis was placed on the changing nature of software and AI-based jobs. Students were encouraged to develop **problem-solving ability, practical project experience, continuous learning habits, and the ability to work with modern AI and data tools**. The speaker also highlighted the importance of understanding how AI systems are developed and deployed in real-world environments rather than focusing solely on theoretical knowledge.

The session provided students with a broader perspective on the opportunities and challenges associated with the rapidly evolving AI ecosystem. It helped them understand the skills they can prioritize during their final year of study and how they can systematically prepare themselves for **industry roles in AI, data, cloud, software development, and related emerging technologies**.

Overall, the talk served as a valuable **practical learning roadmap for undergraduate students entering the AI-era job market**, motivating them to strengthen their technical foundations, gain hands-on experience, explore emerging technologies, and continuously adapt to the changing demands of the technology industry.