

G.S. Mandal's

Maharashtra Institute of Technology, Chatrapati Sambhaji Nagar

1. **Event Date:** 8th Feb 2025
2. **Event:** - Workshop on “LLM’s and DeepSeek R1”.
3. **Speaker at the Event:** Prof.B.N.Kshirsagar,MIT Chh.Sambhajinagar.

Objectives:

- To introduce students to the architecture, features, and applications of DeepSeek R1, an emerging open-source Large Language Model (LLM).
- To enhance students' understanding of how DeepSeek R1 can be utilized in natural language processing and generative AI tasks.

Outcome:

- Students gained awareness of DeepSeek R1 and its key capabilities in LLM-based applications.
- Participants understood how to use DeepSeek R1 for real-world scenarios involving text generation, summarization, and code completion.

The online workshop on “LLMs and DeepSeek R1” was held on **8th February 2025**, and witnessed the enthusiastic participation of over **114 students and faculty members** from the **Artificial Intelligence and Data Science** and **Computer Science and Design** departments, especially those in their **Second and Third Years**.

The session was led by **Prof. B.N. Kshirsagar**, a well-known academician from **MIT Chh. Sambhajinagar**, who delivered an insightful and engaging session focused on **DeepSeek R1**, a prominent open-source Large Language Model (LLM).

Prof. Kshirsagar began the session with an introduction to **Large Language Models (LLMs)**, setting the stage for a deeper understanding of DeepSeek R1. He highlighted its **architecture, capabilities, and unique features**, distinguishing it from other open-source and proprietary models. Special attention was given to how **DeepSeek R1** leverages advanced tokenization strategies, multilingual understanding, and efficient training techniques to perform complex language-based tasks.

He also explored the **practical applications** of DeepSeek R1, demonstrating its use in tasks like **text generation, summarization, code completion**, and **natural language understanding**. Throughout the session, **real-world case studies and hands-on coding examples** were shared to show how students could experiment with and integrate DeepSeek R1 into AI workflows.

The session concluded with a dynamic **Q&A session**, where participants clarified their doubts and gained deeper insights into the workings and real-time usage of DeepSeek R1. Prof. Kshirsagar’s expertise and practical demonstrations offered valuable knowledge,

sparkling curiosity and enthusiasm among students and faculty alike about open-source LLMs and their potential.



Speaker: Prof. B.N Kshirsagar , MIT Chh.Sambhajanagar.