Maharaja Surajmal Institute of Technology, New Delhi-110058
Department of Information Technology

Seminar Report

Topic Name	AI basics event for IT students
Type of Activity Seminar/Webinar/Workshop	Seminar
Name of the Expert	Mayank Shukla , Khushleen Kaur (Deputy head of Geek room)
Mode, Date and Time	Offline, 20 September. 2024, 12:00 Noon - 2:30 pm
Target Audience	IT students
Organized by	Prof. Prabhjot Kaur & Ms. Manju Dhull
Attended Participants	140

An exclusive and informative seminar was organized by Geek room MSIT and IT department for IT students to educate them about AI and it's basics .The lecture was delivered by Mayank Shukla (2nd year btech , deputy head of AI/ML department of Geekroom) and Khushleen Kaur (2nd year btech , deputy head of AI/ML department of Geekroom) on topic "BASICS OF AI".

Artificial Intelligence (AI) refers to the development of systems or machines capable of performing tasks that typically require human intelligence. These tasks include problem-solving, learning, decision-making, and understanding language. At its core, AI combines computer science with data to create algorithms that can simulate human thought processes. AI systems are classified into Narrow AI (designed for specific tasks, like voice assistants) and General AI (theoretical systems that could perform any intellectual task a human can). AI is evolving through machine learning, deep learning, and neural networks.

1.Introduction to AI: Artificial Intelligence was introduced as a transformative technology that mimics human intelligence. The talk explored AI's applications in daily life, such as personal assistants, healthcare, and autonomous systems.

5.Types of AI: The speaker explained the three types of AI – Narrow AI, which focuses on specific tasks (e.g., facial recognition); General AI, which can theoretically perform any intellectual task that a human can do; and Super AI, a concept still in development, potentially surpassing human intelligence in all areas.

2.Supervised and Unsupervised Learning: Participants learned about supervised learning, where the system learns from labeled data, and unsupervised learning, which involves analyzing patterns in data without prior labels. These methods are crucial for developing predictive models

3.Deep Learning: The seminar highlighted the importance of deep learning, focusing on neural networks and how they enable advancements like voice recognition, image processing, and AI-driven personal assistants

4.Large Language Models (LLMs): An overview of LLMs like GPT (Generative Pre-trained Transformers) was provided, explaining how these models, trained on massive datasets, can generate human-like text and assist in various applications, from content creation to chatbots.

6.Generative AI: The session delved into Generative AI, showcasing how AI can create new content, including art, music, text, and more. The speaker emphasized its potential in creative fields and innovation.

7.AI Learning Roadmap: Attendees were guided through a detailed roadmap to building a career in AI, starting with foundational skills like programming (Python), statistics, and progressing to mastering machine learning frameworks like TensorFlow and PyTorch.

8.Career Options in AI: The speaker outlined diverse career paths in AI, including roles like Data Scientist, Machine Learning Engineer, AI Researcher, and AI Ethics Consultant. The growth of AI offers opportunities across sectors like healthcare, finance, and entertainment

9 . Friday introduction:-During the seminar, an exciting AI concept called *Friday* was introduced, showcasing the potential of AI systems to provide personalized advice. leverages the power of large language models (LLMs) to tailor strategies, tips, and plans unique to each user. By analyzing real-time data, such as daily life patterns, financial goals, and current trends, adapts its recommendations to fit users' evolving needs. This AI-driven approach ensures that the advice remains relevant, actionable, and highly customized, offering a practical glimpse into the future of AI-powered assistance.

The seminar provided an insightful and engaging exploration of Artificial Intelligence (AI), offering participants a solid understanding of its foundational concepts and real-world applications. From discussing the types of AI and machine learning to highlighting career opportunities, the event was highly interactive and informative. The roadmap for mastering AI skills gave students practical steps to pursue AI-related careers. With growing relevance in various industries, the seminar equipped attendees with valuable knowledge for excelling in AI.