Guest Lecture on “Generative AI and GAN”

Date: 12 Sept. 2024

Activity Report

The Department of Information Technology at KDK College of Engineering, Nagpur, organized a guest lecture on “Generative AI and GAN” on September 12, 2024 presented by Dr. Nidhi Lal, an esteemed faculty member from VNIT, Nagpur.

Dr. Nidhi Lal shared her expertise in AI, explaining the foundational concepts of GANs, which involve two neural networks—the generator and the discriminator—working in tandem to create realistic data. Through real-world examples, she demonstrated the applications of GANs in image generation, video synthesis, and other areas where AI can generate high-quality, realistic content. Attendees also had the opportunity to engage in discussions, ask questions, and explore practical insights into how generative AI technologies are transforming fields such as healthcare, entertainment, and art.

Students had actively participated and were fully involved in the activities. This activity is beneficial for creating great awareness among students and faculty members. Dr. Mrs. S. P. Khandait, Head of Department of Information Technology presided over the program with faculty members from all the other departments. Dr. Valsson Varghese, Principal, and Dr. A. M. Badar, Vice-Principal praised efforts taken by Dr. H.V. Gorewar, Event Co-ordinator for organizing this program.

K D K College of Engineering, Nagpur
Department of Information Technology
Activity Report (Session: 2024-2025)

Title of the Activity	Guest lecture on "Generative AI and GAN"
Date of Activity	12-09-2024
No. of Students Involved:	**Male: 52** **Female: 33** **Total: 85**
Details of Invited Speaker	Dr. Nidhi Lal, an esteemed faculty member from VNIT, Nagpur.

Brief about an Activity	The Department of Information Technology at KDK College of Engineering, Nagpur, organized a guest lecture on "Generative AI and GAN" on September 12, 2024 presented by Dr. Nidhi Lal, an esteemed faculty member from VNIT, Nagpur. Dr. Nidhi Lal shared her expertise in AI, explaining the foundational concepts of GANs, which involve two neural networks—the generator and the discriminator—working in tandem to create realistic data. Through real-world examples, she demonstrated the applications of GANs in image generation, video synthesis, and other areas where AI can generate high-quality, realistic content. Attendees also had the opportunity to engage in discussions, ask questions, and explore practical insights into how generative AI technologies are transforming fields such as healthcare, entertainment, and art.
Objectives	1. To help students understand the core principles behind generative artificial intelligence and how it differs from traditional AI approaches. 2. To provide a clear conceptual understanding of how GANs operate through the interaction of two neural networks—the generator and the discriminator. 3. To make students aware of the latest trends and developments in the field of AI and how they are shaping the future of technology.
Outcomes	1. Students gained a clear and structured understanding of generative AI concepts, especially the working mechanism of Generative Adversarial Networks (GANs). 2. Exposure to AI-specific terminology and concepts helped students develop their technical language and comprehension in advanced AI topics. 3. The session inspired students to consider generative AI as a potential area for final-year projects, research papers, or internships.

Faculty Coordinator	**HOD**	**IQAC Coordinator**	**Principal**
Dr. H. V. Gorewar	Dr. S. P. Khandait	Dr. N. R. Dhamge	Dr. Valsson Varghese
Assistant Professor Department of Information Technology KDK College of Engineering. Nagpur - 440024	HOD Department of Information Technology KDK College of Engineering. Nagpur - 440024	IQAC Coordinator KDK College of Engineering Nagpur	PRINCIPAL K.D.K.COLLEGE OF ENGG. NAGPUR-24.