

Viksit Bharat @ 2047 At IGDTUW
AI & DS DEPARTMENT'S ONLINE
EXPERT TALK ON 5 January 2024, at 2:00PM By
Speaker Mr. Santanoo Pattnaik

The Department of Artificial Intelligence & Data Sciences at Indira Gandhi Delhi Technical University for Women (IGDTUW) organized an Online Expert Talk for students to spread awareness about Generative AI: From Hype to Reality on 5th Jan 24 by Mr. Santanoo Pattnaik.

The expert talk on "Generative AI: From Hype to Reality" provided valuable insights into the critical role of Generative AI in our daily lives.. The speaker, Mr. Santanoo Pattnaik, brought a wealth of knowledge, making the session informative and engaging.



The poster features a dark blue background with a yellow curved section at the bottom right. At the top left is the IGDTUW logo. The top center has the text 'विकसित भारत अभियान 1947 TO 2047' with the Indian tricolor. To the right are logos for '75 Azadi Ka Amrit Mahotsav' and 'G20 India 2023'. The main text reads: 'Indira Gandhi Delhi Technical University For Women', 'Towards Viksit Bharat @2047', 'EXPERT TALK ON GENERATIVE AI FROM HYPE TO REALITY'. A circular portrait of Mr. Santanoo Pattnaik is on the left. The bottom left contains the speaker's name, title, date, time, and meeting link, along with a QR code. The bottom right lists the organizing department and faculty co-ordinators.

विकसित भारत अभियान
1947 TO 2047

75 Azadi Ka Amrit Mahotsav
G20 India 2023

Indira Gandhi Delhi Technical University For Women
Towards Viksit Bharat @2047
EXPERT TALK
ON
GENERATIVE AI FROM HYPE TO REALITY

BY: MR. SANTANOO PATTNAIK
CEO, SansoftTech Services Private Limited

Date: 5th January 2024
Time: 2:00PM -3:00 PM
Online meet link: meet.google.com/mya-qxss-ada

Scan here to join

Organized by:
Dept. of Artificial Intelligence and Data Sciences

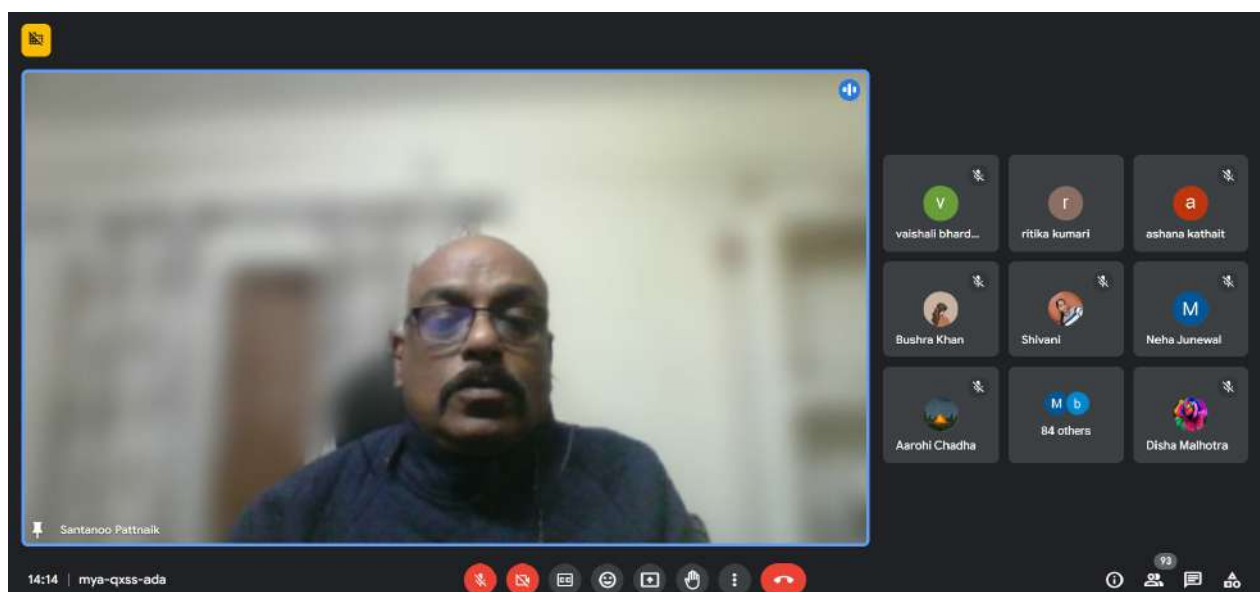
Faculty Co-ordinators:
Dr. Shailesh D Kamble
Associate Professor, AI & DS
Dr. Himanshu Mittal
Assistant Professor, AI & DS
Ms. Ritika kumari
Assistant Professor, AI & DS

Key Takeaways from the talk:

- **What is Artificial Intelligence (AI):** Mr. Pattnaik's discussion on AI provides valuable insights into the world of Artificial Intelligence, encompassing its definition, applications, and future implications. His perspectives shed light on how AI is perceived in various contexts, emphasizing its potential impact on society, businesses, and individuals.
- **Strong vs Weak AI :** Mr. Pattnaik's discussion focuses on the dichotomy between strong AI and weak AI. Strong AI, characterized by its ability to perform tasks across various domains from human intelligence, stands in contrast to weak AI, which is designed for specific functions. Pattnaik's insights into the capabilities and limitations of these AI types offer a concise exploration of the ongoing debate and its potential implications for the future of artificial intelligence.
- **Content with Generative AI:** In Mr. Pattnaik's discussion on generative AI, the key takeaway is the technology's capacity to create diverse content, from art and music to text and images. Generative AI's creative potential, driven by machine learning, showcases its transformative impact on innovation and the intersection of human creativity with machine intelligence.
- **Large Language Models (LLM):** In Mr. Pattnaik's discussion on LLM (Large Language Models), the focus was on the significance of these models. LLMs, like GPT-3, demonstrate advanced language understanding, paving the way for applications in natural language processing and content creation. Pattnaik's insights may shed light on the transformative role of LLMs in shaping communication and information processing.
- **Generative AI Limitations:** Mr. Pattnaik has addressed various challenges associated with generative AI, including overgeneration of content, inconsistency, and concerns regarding quality, coherence, understanding, safety, and privacy. His insights emphasized the importance of a holistic approach to tackle these issues for the responsible and ethical deployment of generative AI in diverse applications.
- **LLM's Limitations:** In Mr. Pattnaik's discussion on LLM limitations, the key takeaway is an exploration of challenges such as biased outputs, ethical concerns in content generation, and the need for careful oversight. His insights emphasize the importance of addressing these limitations for the responsible and ethical deployment of Large Language Models.
- **Real World Applications(Case Study):** In Mr. Pattnaik's discussion on real-world applications of Generative AI in universities, using case studies, the takeaway involves a practical understanding of how this technology positively impacts education and research. The case studies illustrate how

Generative AI contributes to innovative solutions within universities, showcasing its potential in transforming teaching and learning processes.

- **Prompt Engineering** : In Mr. Pattnaik's discussion on solutions for challenges in Generative AI, particularly in the realm of prompt engineering, the takeaway revolves around practical strategies for refining prompts. His insights provide guidance on optimizing instructions to enhance the accuracy and effectiveness of Generative AI model outputs. The discussion underscores the importance of thoughtful prompt engineering as a key factor in achieving meaningful and reliable results when working with Generative AI technologies
- **Future Trends**: In exploring future trends in Generative AI, Mr. Pattnaik's discussion provided a glimpse into the evolving landscape of the technology. Anticipated advancements, novel applications, and emerging technologies are focal points, offering the audience a forward-looking perspective. The takeaway is an awareness of the dynamic and evolving nature of Generative AI, empowering individuals to stay informed and adapt to the future trends in this rapidly advancing field.
- **Tools, Softwares & Applications**: In Mr. Pattnaik's discussion on Generative AI tools, platforms, and software, the key takeaway revolves around insights into major solutions shaping this technology. His discussion's spotlight prominent tools and platforms integral to Generative AI development, providing the audience with a practical understanding of the leading technologies in the field.
- **Q&A Session**: The talk concluded with an interactive Q&A session, where participants could seek clarification on various aspects of Generative AI. The speaker provided insightful answers, enriching the learning experience.



14:13 | mya-qxss-ada

Santanoo Pattnaik (Presenting)

Artificial Intelligence, What is it?

- AI is defined as "A system that shows behavior that could be interpreted as human intelligence." - Doug Rose
- AI thrives in an environment where there are **defined rules and patterns** that it can work with. This is where AI will seem the most "Intelligent".
- If you have used **any of the following**, you have used AI:
 - T-9 Texting, Google Translate, Hulu, Alexa etc.

2:09 PM | mya-qxss-ada

What are large language models (LLMs)?

- Large language models (LLMs) are a type of advanced artificial intelligence system. ChatGPT is an example of an LLM that allows people to interact with a computer in a more natural and conversational way.
- GPT stands for "Generative Pre-trained Transformer" and is the name given to a family of natural language models developed by OpenAI. There are other large language models such as Bard, LLaMA, and Claude.
- These tools are known as generative AI because of their ability to produce seemingly original results.
- They are trained on large text datasets to learn to predict the next word in a sentence and, from that, generate coherent and compelling responses. **GPT-3 is trained on 300 billion words.**

14:41 | mya-qxss-ada

Conclusion:

Dr. Shailesh D Kamble, Dr. Himanshu Mittal and Ms. Ritika Kumari organized this online Expert Talk on "Generative AI from Hype to Reality", which was attended by more than 100 students offered by leveraging data visualization tools and techniques using Generative AI that can provide a powerful means to communicate the progress and achievements related to the "Viksit Bharat@2047" vision across various dimensions of development. Generative AI can make complex information more accessible and engaging, fostering a deeper understanding and appreciation of the nation's journey toward becoming a developed country by 2047.

