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Generative AI

A sort of artificial intelligence technology known as "generative AI" typically refers to machine learning systems that may produce text, graphics, code, or other kinds of content—often in response to a user request. Online tools and chatbots that let users submit instructions or inquiries into an input area and have the AI model provide a response that seems human are increasingly using generative AI models.

Working of Generative AI

In order to produce new material that looks human-generated, generative AI use a computational technique called deep learning to identify patterns in massive amounts of data and then repeats these findings. Neural networks, a kind of machine learning technique that is somewhat modelled after the way the human brain processes, interprets, and learns from information over time, are used by it to achieve this.

For instance, a generative AI model trained on a large corpus of fiction writing would eventually be able to create stories or story elements depending on the literature it has been exposed to. This is due to the fact that, in the case of fiction, the machine learning algorithms that drive generative AI models pick up knowledge from the materials that are provided to them; these elements would include themes, characters, plot structure, and other narrative techniques.

Over time, generative AI models become more complex; the more data they generate and are trained on, the more realistic and human-like their outputs become.

The introduction of OpenAI's ChatGPT and DALL-E models, which gave consumers access to usable AI tools, has significantly contributed to the explosive rise in popularity of generative AI in recent years.

Since then, in an effort to take advantage of the technology's quick adoption, major tech firms including Google, Microsoft, Amazon, and Meta have introduced their own generative AI tools.

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Types of Generative AI

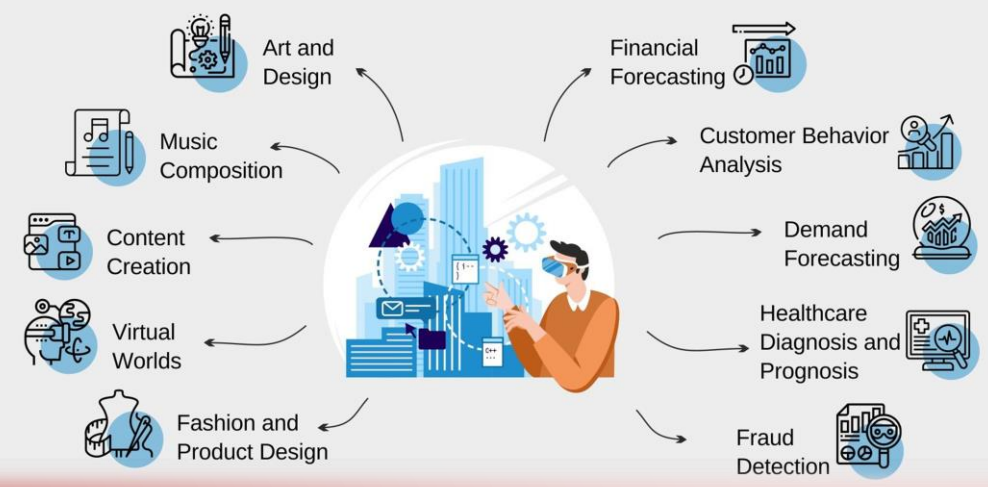
Large data sets are used to train transformer-based models so they can comprehend the connections between sequential information, such as words and sentences. Transformer-based models, which are supported by deep learning, are well suited for text-generation tasks since they are generally good at natural language processing and comprehending the structure and context of language. Two instances of transformer-based generative AI models are ChatGPT-3 and Google Gemini.

Categories of Generative AI

Among the most well-known categories of generative AI models are:

- Generative Adversarial Networks (GANs)
- Variational Autoencoders (VAEs)
- Autoregressive Models
- Recurrent Neural Networks (RNNs)
- Transformer-based Models
- Reinforcement Learning for Generative Tasks

Generative AI Applications



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Happening @ Department of I.T
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done...Page-12**Digital Transformation: The unleashing access to today's world**

Technology has now been an accelerating widget in our day today's scenarios. And, one of the reasons behind this comprehensive change is the integration of term digital transformation in distinct avenues. Digital transformation is a concept of blending tech stacks within your day-to-day businesses. For example, imagine a patient waiting for his consultation with the doctor at their clinic. Now, in the same situation, introducing video calling platforms such that the patient can take a follow-up call from their residence only without running directly to the hospital and this way, rush and long queues in hospitals can be alleviated. This feature has now filtered the category of patients. This has not only enabled uninterrupted workflow but has also fostered a culture of flexibility and agility within organizations. If we holistically look into the term Digital transformation, we shall find that there are multiple ways how one can digitally transform themselves whether you hold a whole fruitful business or you are an individual.

Digital transformation is the key asset in shaping the future. Furthermore, it has redefined the way how one can access diverse information skill sets and expertise. Whether you use an application for booking an Uber, or you run an Uber-like business to make sustainable you will always opt for paradigms that are digitally embraced.



Anushka Tripathi
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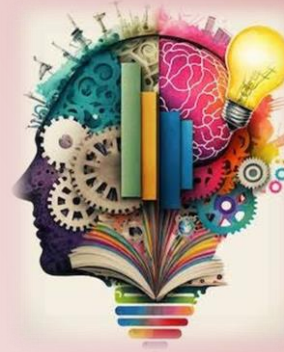
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ऐसे दौर-ए-उम्र में जिंदगी

कोई ठहर जाए तो अच्छा, ना ठहरे तो भी ठीक
कोई सफर को जाए तो अच्छा घर रह जाए तो भी ठीक
कोई निखर जाए तो अच्छा बिखर वो जाए तो भी ठीक
कोई साथ निभाए तो अच्छा, छोड़ जाए तो भी ठीक
कोई दिल लगाए तो अच्छा दिल दुखाए तो भी ठीक
समझ ये आये तो अच्छा, ना आये तो भी ठीक



Mannu Kumar
MCA 1st Year Student



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Mental health awareness in digital age

In the digital age, mental health awareness has taken center stage as individuals navigate the complex intersection of technology and well-being. The omnipresence of social media and constant connectivity pose both opportunities and challenges. On one hand, online platforms facilitate the dissemination of mental health information, fostering a sense of community. On the other, they can contribute to feelings of inadequacy through incessant comparison and the pressure to curate an idealized online persona.

The rise of mental health apps signifies a positive shift, offering accessible tools for self-care and emotional support. However, concerns about data privacy and the potential for technology to exacerbate mental health issues persist. Cyberbullying, online harassment, and the adverse effects of excessive screen time are growing concerns affecting mental health, particularly among the younger demographic.

Balancing the benefits and drawbacks of digital engagement is crucial for fostering a mentally healthy society. Encouraging open conversations, promoting digital detox practices, and integrating mental health education into online spaces are essential steps. Ultimately, as we navigate the digital landscape, cultivating a mindful approach to technology is fundamental in promoting mental well-being in this interconnected era



Sakshi Srivastava

MCA 1st Year

Student Editor, VIBRANCE

Art Work



Shivangi
MCA 1st Year Student



Divya
MCA 1st Year Student



Soumya Charan Srivastava
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Rules For solution:-

1. A number can be repeatedly used in either horizontal or vertical way
2. Numbers are to be filled using 1-60 only.
3. Always check for the operators.



Abhishek Kapoor
MCA 1st Year Student

Happening @ Department of I.T during January - March, 2024

Database Club Activity for MCA Students



On 5th January, 2024 Database Club of Department of IT, ITS, Mohan Nagar Ghaziabad organised a Special Session on “Transforming Obstacles into Opportunities: Cultivating Resilience & Motivation in the face of Adversity” for the student of MCA.

While addressing the students Director(IT), Dr. Sunil Kr. Pandey said that “Databases are fundamental components of information systems used in businesses, governments, healthcare, education, and other sectors. Knowledge of databases is crucial for designing, implementing, and maintaining these systems effectively”. Dr. Ramkaran Sharma, Associate Professor, Delhi University was the speaker of the session. While addressing the students of MCA, 1st year he said that in today's data-driven world, organizations rely on data to make informed decisions. Understanding databases allows individuals to work with large volumes of data efficiently and extract meaningful insights to support decision-making processes.

He also advised students to work on the fundamentals of DBMS and also try to implement the SQL command in their projects. He also emphasised on strengthening the basics of all the subjects they learn during their tenure.

The session was very informative and interactive, students had enjoyed it and also cleared their many doubts.

TechNext Club Activity for MCA Students



On 9th January 2024, TechNext Club of Department of IT organised a guest talk on “AWS Cloud Computing” for the students of MCA. Mr. Sandip Singh, DevOps Consultant, Routa Digital Pvt. Ltd. was the resource person of the session. He very nicely explained the different services provided by the AWS and said that Amazon Web Services (AWS) is a comprehensive cloud computing platform provided by Amazon.com. It offers a wide range of services, including computing power, storage options, networking, databases, machine learning, artificial intelligence, Internet of Things (IoT), security, and more. AWS allows businesses to access these resources on-demand, providing flexibility, scalability, and cost-effectiveness. He also guided students about the various expectations of industry from the fresher’s. The session was full of learning.

Excursion Trip for MCA Students to Pratapgarh Farms



Department of MCA organized one-day Excursion Trip for MCA Students to Pratap Garh Farms, Jajjar, Haryana on 24th February 2024. Students were also accompanied with Faculty members of Department of I.T. On the arrival, students had a royal welcome by live folk musician dancers dressed up in their Rajasthan costumes. Students enjoyed many fun, sports activities outdoor and indoor including different rides like

Camel ride, Camel cart ride, Bullock cart ride, Tractor ride. There were many Ethnic Games including Gilli Danda, Pithoo, Lattoo, Kanchegoli, Archery, Gulel (sling shot), Dart shooting, Air gun shooting, Kushti, Croquet, Trampoline jumping, Basketball, Table Tennis, Carrom, Chess, Ludo and Snakes and ladders were also. Students were also served with different varieties of food and soft drinks. At the end of day students enjoyed DJ Music. The day was full of enjoyment, fun and excitement for Students of MCA

Faculty Participation in External Events

Date	Name of Faculty	Events
8 th to 12 th Jan.	Prof. Ashwini Kumar	Attended Faculty Development Program on "AI in Education and Business" organized by Department of Business Administration, Hindustan College of Arts and Science, Coimbatore, Tamil Nadu
11 th - 13 th Jan.	Prof. Vaibhav Batnagar	Attended 3-days online workshop on NetSim Standard Version Training organized by IIIT Noida
27 th March	Dr. Sunil Kr. Pandey Director(IT)	He was panellist at Cross Border E-Commerce Conclave organized by Market Insight Consultants
29 th to 31 st Jan.	Prof. Ashwini Kumar	Attended Faculty Development Program on "Problem solving Skills ICT Academy organized by IME, Ghaziabad
5 th to 12 th Feb.	Dr. Sunil Kr. Pandey Prof. Puja Dhar, Prof. Smita Kansal, Prof. Saurabh Saxena, Prof. K P Singh, Prof. Vaibhav Batnagar, Prof. Abhay Ray, Prof. Ashwini Kumar and Prof. Chanchal Prabha	Attended Six-days FDP on "The Recent Trends of Big Data and Artificial Intelligence in the Field of Computer Science & Agriculture Engineering" organized by Department of Computer Science & Department of Agricultural Engineering, Sir Chhotu Ram Institute of Engineering and Technology, CCS University, Meerut
7 th March	Prof. Varun Arora	Completed online certification on Quantum Computing and Introduction to Quantum Machine Learning from Udemy
13 th March	Dr. Sunil Kr. Pandey Director(IT)	Received Digital Leader Award in 31st edition of Dataquest Leadership Conclave & Awards

Student Participation in External Events/ Certification Courses done

Date	Name of Student	Events
January	Aarti Verma MCA 2 nd Year	Successfully Completed Online course on Advanced SQL by Great Learning Academy
		Successfully Completed Online course on NoSQL and MySQL Basics Database by Great Learning Academy

12 th – 14 th Feb.	Shivani MCA 2 nd Year	Successfully Completed Online course on HTML & CSS Zero to Hero in 3 days by Lets Upgrade in collaboration with NSDC
March	Aarti Verma MCA 2 nd Year	Successfully Completed Online course on Blockchain and Cyber Forensics basics by Great Learning Academy
		Successfully Completed Online course on Bootstrap in Hindi by Great Learning Academy

Congratulations

GLIMPSES OF MCA PLACEMENTS-2024



Disclaimer:

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Announcement and Contact Details

VIBRANCE is an E-Newsletter of the Department of I.T, I.T.S, Mohan Nagar, Ghaziabad. We look forward to the contribution from our students, alumni, faculty members and industry experts.

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