

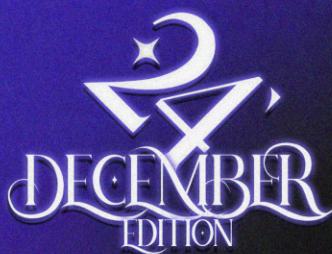
Digest

Machine Brains?!
super-powered
calculators, far
beyond just fancy
graphics cards, are
the secret sauce of
AI.

Advancement
in Google AI



FEED OR FICTION:
AI's Influence on
Journalism speeding
up news generation
improving accuracy,
and personalising
content for readers



24
DECEMBER
EDITION

A stylized logo for the December edition. It features a large, white, three-dimensional '24' with a crescent moon and a star above it. Below the '24' is the word 'DECEMBER' in a bold, serif font, and 'EDITION' in a smaller, sans-serif font underneath.

J google launched gemini
A advanced and rebranded
I bard as gemini
N openai introduced
G gpt-4 turbo

M meta released
A llama 3
R FEB

M google released
A palm 3
R MAR

N nvidia
R released chat
I with rtx
G APR

M openai
A released
Y gpt-4o
M MAY

google dropped
G gemma 2
J JUN

J apple launched
U "apple intelligence"
L for developers and
I testers
G JUL

the european union's ai act
comes into force, setting
global benchmarks for ai
ethics, accountability, and
regulation
A AUG

S github integrates
E openai's cl-
P preview with
I copilot
S SEP

I ibm unveils
B granite 3.0 ai
C models for
T enterprise
O OCT

N google quantum
O ai team
V introduces
I alphaqubit
N NOV

O openai releases
E sora and o3
C DEC

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INTRODUCTION



AI-CLUB

TECH
DIAOGOST
Edition IN



90



BIAS Cr HIGH
EO 70 µs

DIALING BACK TO NOSTALGIA

WHEN AI USED TO BE ELEGANT

this year proved to be a groundbreaking year for artificial intelligence, shaping industries and transforming lives across the globe, along with bringing in dynamic changes.



Gen AI: Augmentation of Human Creativity

Saurabh Jha

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Augmentation of Human Creativity

By Saurabh Jha

Generative artificial intelligence (Gen AI) has recently transformed various sectors by enhancing human creativity. The power of AI to generate original ideas and solutions is changing how we approach creative tasks, from marketing to art. This article delves into the potential of Gen AI to enhance human creativity and its applications across various sectors.

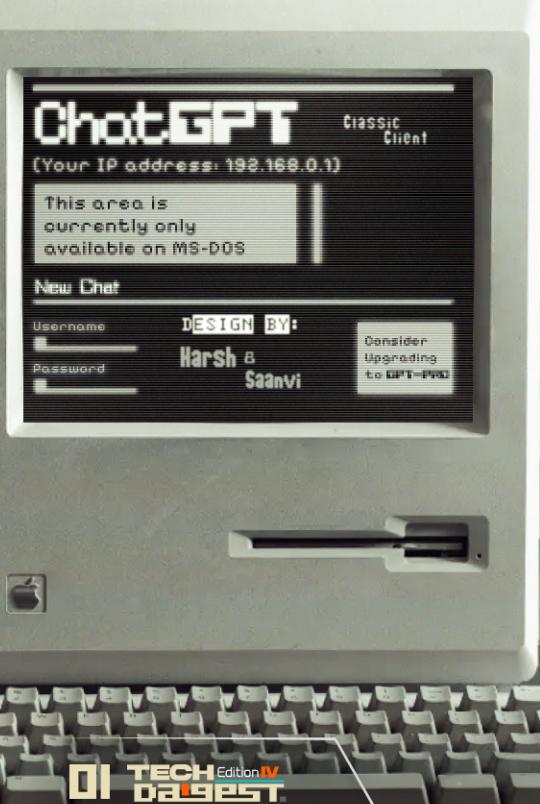
WHAT IS GENERATIVE AI?

Generative AI encompasses algorithms capable of generating new material based on their training data, exemplified by systems like DALL-E and GPT-4. Unlike standard AI, which evaluates and forecasts, generative models can produce original text, images, music, and even films. For example, DALL-E creates graphics from textual descriptions, whereas GPT-4 can compose essays, stories, and articles.

HOW GENERATIVE AI ENHANCES HUMAN CREATIVITY

Tools for generative AI are excellent for idea development and brainstorming. They enable individuals and groups to explore vast possibilities by presenting innovative ideas. AI can provide new approaches and styles for artists working in literature, music, or visual arts. For instance, musicians use AI to create innovative music or suggest novel chord progressions.

More and more creative endeavours are utilising AI's assistance. AI-generated artworks are auctioned off, and orchestras perform symphonies produced by this technology, demonstrating how human ingenuity and machine intelligence can work together to create amazing things. Rather than replacing human creativity, these technologies enhance it by offering a new platform for expression.



APPLICATIONS IN DIFFERENT FIELDS

The impact of generative AI extends across several industries:

Advertising & Marketing: AI generates personalised content for marketing efforts using distinct, data-driven insights, improving consumer engagement.

- **Film and Media Production:** Artificial intelligence helps with scriptwriting, editing, and even special effects, resulting in more inventive and productive production processes.
- **Fashion & Design:** AI creates original fashion designs and helps designers experiment with fresh looks.

CHALLENGES AND ETHICAL CONSIDERATIONS

While generative AI holds great promise, it also presents several challenges. Copyright and authenticity issues arise from the proliferation of deepfakes and AI-generated content that mimics the work of human creators. Ensuring the responsible use of AI-generated works and proper recognition of human creators are two critical ethical concerns within the creative professions.

FUTURE OF GENERATIVE AI IN CREATIVITY

With ongoing advancements and emerging trends continually expanding its potential, the future of using generative AI in creativity appears promising. As AI technology evolves, creative processes are likely to incorporate it increasingly, fostering the emergence of new tools and methodologies for artistic expression. The symbiotic relationship between human creativity and machine intelligence undergoes significant enhancement through the continuous development of AI, potentially leading to unprecedented levels of inventiveness.



Human creativity is changing because of generative AI, which offers new resources and opportunities in many industries. Combining human creativity with artificial intelligence provides the potential for a future full of artistic expression and innovation, provided we manage the difficulties and seize the opportunities.



Feed or Fiction

by Shreenita Saha

DX対応

スポーツ
テクノロジー
自動化

Have you ever wondered how your daily news updates from DailyHunt or Google News tailor-made for your interests? How they seem to capture your attention as if reading your mind? What if I told you it's not a coincidence but the artistry of artificial intelligence snapping your newsfeed?

Innovation in journalism is back. The idea of completely reimagining how news might be produced and consumed gained momentum after the public release of ChatGPT in late November 2022. Every newsroom is now urgently focusing on AI-driven innovation due to its capabilities, which have a clear and significant potential impact on journalism.

Everybody in the news industry is asking, "What's next?"

Information gathering is the foundation of trustworthy news production.

A journalists standard operating procedure involves cross-checking a story with multiple sources, understanding the high risks of relying solely on one. Various details of a narrative are corroborated by numerous sources until the story is

deemed more likely true than not. This is where AI comes to the rescue. AI can dive into vast lakes of data and uncover subtle correlations that validate the authenticity of the news.

AI also enhances traditional news organizations' "breaking news" capabilities by identifying "early tremors" of news on social media using advanced deep learning, machine learning algorithms, and news tracking natural language processing (NLP) systems. These systems process real-time posts, photos, and videos of events, giving journalists an 8- to 60-minute head start in reporting newsworthy events accurately.

Using recommendation systems and association rule mining techniques, AI identifies topics and trends tailored to individual interests. A chatbot powered by large language models (LLMs) like GPT enables conversational, interactive access to an organization's news archives. It can answer questions, provide detailed reports, and even suggest related topics of interest.

What if I told you this technology is already here? The Washington Post uses an AI tool called Heliograf, which automatically generates short news updates on topics like sports and election results. Heliograf also personalises news feeds for readers by analysing their reading habits and interests.

WHAT'S
NEXT?

How Does AI Do It!

STEP - 1

Data Input and Preprocessing

Have you ever wondered how your daily news updates from DailyHunt or Google News seem tailor-made for your interests? How they seem to capture your attention as if reading your mind? What if I told you it's not a coincidence but the artistry of artificial intelligence snapping your newsfeed?

STEP - 4

Summarisation

Text summarisation extracts key points from lengthy articles. Extractive Summarisation identifies and highlights the most relevant sentences without altering the original wording. Abstractive Summarisation interprets the meaning of the text, creating concise summaries with new phrases and sentences. This method is computationally intensive but highly effective.

STEP - 2

Data Processing

NLP techniques such as Named Entity Recognition classify entities like names, dates, and locations, offering structured insights. LLMs like BERT and T5 are used for sentiment analysis, providing deeper understanding. Pattern recognition algorithms detect trends and anomalies, helping identify emerging newsworthy events.

STEP - 5

Personalised News Feeds

Advanced algorithms track user behaviour, such as reading habits, to map interests. Content-based filtering suggests similar articles, while collaborative filtering recommends content based on user similarities. These techniques combine to deliver highly relevant, engaging news feeds tailored to individual preferences.

STEP - 3

Classification

Machine learning algorithms categorise articles into topics like sports, entertainment, or politics. Support Vector Machines (SVM) aid in classification, while Random Forests improve accuracy through ensemble decision trees. Text representations are refined using the Bag of Words model, TF-IDF, and attention mechanisms weigh

FUTURE PROSPECTS

Heliograf exemplifies AI's potential to revolutionise journalism—sped up news generation, improving accuracy, and personalising content for readers. With continuous advancements, AI tools are set to become even more sophisticated, reshaping how we consume news.

*are you ready
for this AI-driven
transformation in
journalism?*

MACHINE BRAINS

By A. Sricharan

DESIGN BY: Harsh Doyal



图形处理器	Max. Resolution	Max. Scan Depth	Min. Scan Depth	Max. Image Size	Max. Image Depth	Max. ROI
[Model]	300	0x0100	4060	1080	2070	2070

**05 TECH
DAILY
BEST** Edition IV

GeFORCE RTX 960

AI Club
VIT Bhopal

The world of artificial intelligence seems like magic sometimes, think about it. Machines are learning to recognize faces, translate languages on the fly, and even create art. But like with everything in this new technology-based age, there's some serious processing power at play.

Enter the GPU, the herald of the AI revolution.

From Gaming Glory to AI Powerhouse

Forget fancy graphics cards with all the fancy names for a moment. While GPUs were originally designed to accelerate visuals in video games, their true potential lies in their unique architecture. Unlike the traditional CPU, which acts like a jack-of-all-trades, GPUs are a team of specialists. They house thousands of cores, each optimised for performing a specific task *very, very quickly*.

Imagine you're analysing a million images to train a facial recognition program. A CPU would tackle them one by one, like a single chef meticulously preparing each dish. A GPU, on the other hand, is like a well-oiled kitchen brigade. Each core analyses a specific image simultaneously, churning out results much faster.

Alternatively, you can think of it this way. A CPU is like a street vendor making burgers, only one burger, perfectly cooked at a time, one after another, step by step. A GPU is like McDonalds, flipping different burgers at the same time.

This neat little power called **Parallel Processing** is what makes GPUs ideal for the massive calculations needed in AI.

Why Is Nvidia Dominating The Markets?

If you're looking for AI hardware, NVIDIA is probably the first name that springs to mind. Their GPUs, like the A100 have become synonymous with deep learning, powering research institutions and tech giants alike. But what is it about them that makes them the top dog?

That's because NVIDIA understands that powerful hardware needs powerful tools. You can't just build a GPU that can accelerate calculations better than anyone, and expect the users to start building with them. It's like speeding on a sportbike without the proper tyres, the proper engine settings; a superbike with no fine-tuning. You're not going to get very far with it.

To build an enterprise-level AI product, you need *thousands* of these guys working in sync with others, to train and build models as quickly and cleanly as possible. That requires some serious systems-level optimization and constant maintenance to make sure it doesn't break down in a permanent and frankly, costly way.

So, keeping this in mind, they developed user-friendly software that seamlessly integrates with their GPUs, making it easier for researchers and developers to unlock the full potential of their AI projects. Imagine having the best kitchen equipment but no recipes - NVIDIA's software provides those recipes for success.

It's not just about how fast their GPUs are today, it's not always about who has the best benchmarks. NVIDIA's success comes from always looking ahead and developing new technologies for tomorrow's AI challenges, their forward-thinking approach, their commitment to help the development of AGI.

Parallel Futures

So, the next time you chat with a virtual assistant who seems eerily in sync with your thoughts, or watch a self-driving car navigate the streets with robotic precision, remember the invisible chefs in the background. GPUs, fuelled by innovation, are quietly crunching away at the heart of the machine brain, making the magic of AI a reality.

These super-powered calculators, far beyond just fancy graphics cards, are the secret sauce of AI. Their parallel processing abilities allow them to tackle massive data sets like a team of ninjas, analysing everything simultaneously for lightning-fast results. As AI continues to evolve and push the boundaries of what's possible, GPUs will undoubtedly remain a central role, the invisible chefs cooking up the exciting future of artificial intelligence.

AI	AI	AI	AI
AI	AI	AI	AI
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AI	AI	AI	AI
AI	AI	AI	AI

HARNESSING AI FOR SEISMIC FORECASTING:

BY QURAT UL AAEIN

A Technical Dive into EARTHQUAKE PREDICTION

The relentless quest to unlock the secrets of earthquake prediction has long captivated the scientific community. With the advent of artificial intelligence (AI) and its myriad of techniques, researchers are gaining unprecedented insights into the intricate interplay of factors that culminate in seismic events. This article delves into the technical aspects of using AI for earthquake prediction, exploring the algorithms, methodologies, and potential limitations that shape this frontier. At the core of AI-based earthquake prediction lies the principle of pattern recognition. By harnessing the power of machine learning algorithms, researchers aim to identify subtle precursory signals and patterns that may precede seismic upheavals. These algorithms are trained on vast troves of data, encompassing seismic activity, ground deformation, crustal movements, and geological structures.

One of the most widely employed algorithms in this domain is the artificial neural network (ANN). These networks, inspired by the biological neural networks found in the human brain, excel at recognising intricate patterns and modelling complex, non-linear relationships. Researchers have successfully leveraged various architectures of ANNs, including feedforward neural networks, recurrent neural networks (RNNs), and convolutional neural networks (CNNs), to analyse seismic data and forecast potential earthquakes.

CNNs, in particular, have proven invaluable in extracting spatial and temporal features from seismic waveform data. By convolving input data with learnable filters, CNNs can automatically detect patterns and anomalies that may precede seismic events. Additionally, researchers have explored the application of long short-term memory (LSTM) networks, a variant of RNNs, to capture long-range dependencies and temporal correlations in seismic time series data.

Designed By:
Sanskriti Singh

Another promising technique is the application of natural language processing (NLP) methods to seismic data analysis. By treating seismic waveforms as sequences of "words" or "sentences," NLP algorithms can extract meaningful patterns and relationships, potentially unveiling precursory signals that may elude traditional analysis methods.

Beyond these widely adopted techniques, researchers are also exploring the potential of other AI methodologies, such as decision trees, support vector machines (SVMs), and ensemble methods like random forests. These algorithms offer diverse approaches to pattern recognition and may uncover unique insights when applied to the intricate realm of seismic data.

However, despite these advancements, earthquake prediction using AI is not without its limitations and challenges. Seismic processes are inherently complex and chaotic, influenced by numerous factors often not fully captured in available data. Additionally, the rarity of large-scale earthquakes can lead to imbalanced datasets, posing challenges for machine learning models to generalize effectively. Another significant limitation lies in the interpretation and uncertainty quantification of AI model predictions. While these models may excel at identifying patterns, translating their outputs into actionable forecasts with quantifiable uncertainties remains a formidable task. Researchers are exploring techniques like Bayesian deep learning and uncertainty estimation methods to address this challenge.

Furthermore, the integration of AI-based earthquake prediction systems with existing seismic monitoring and risk assessment frameworks poses logistical and operational challenges. Effective communication and collaboration between AI experts, seismologists, and emergency response teams are crucial for seamless integration and timely decision-making. Despite these limitations, the potential of AI in earthquake prediction remains profoundly promising. As research progresses and new techniques emerge, our ability to anticipate and prepare for seismic events will undoubtedly improve. By continually refining algorithms, expanding data sources, and fostering interdisciplinary collaboration, the scientific community is steadily advancing towards a future where the unpredictable tremors of the Earth's crust may no longer catch us unawares.

Advancements in Google AI

By Rashi Dubey

Why Are We Talking About This Topic?

Artificial Intelligence has been taking center stage in this age of rapid technological innovation for some time now.

This episode initially revolved around OpenAI's ChatGPT until other major tech companies decided to join the battle and challenge OpenAI. Businesses such as Google introduced BardAI, now called Gemini, while Microsoft introduced BingAI and Copilot.

History and Hierarchy of Google AI

Google chose to differentiate itself from the competition by introducing its AI Assistant, a ground-breaking creation that goes beyond typical human-computer interactions, while all the other firms were just getting into the game. This invention is designed to rival ChatGPT's GPT-4. This shift will impact how Assistant functions for users, developers, and Google staff with its Gemini-induced update; for the time being, the business supports both new and old.

While this may sound very new and fascinating to some readers, Google has actually been a player in the AI game for almost a decade. By comparing its projects, we can see a clear evolutionary arc within its timeline.

Some of Google's major AI projects include Google Brain, a collaboration between Google and Stanford University, founded in 2011, a research team at Google renowned for pioneering advancements in deep learning and neural networks. Another key project is Google's DeepMind. DeepMind was initially an independent company, founded in 2010 in the UK, which was acquired by Google in 2014 and later merged with Google Brain in 2015. In April 2023, it gained an individual identity within Google's research department and is popularly known as Google DeepMind. Now that we know a lot about the history and hierarchy of Google's AI projects, let us discuss one of Google's significant contributions to the field of AI that is used almost every day by most users: Google Assistant.



Design By: Priyansh

Google Demos Most Widely Used AI Project: Google Assistant

For those who may not know (which is highly unlikely), Google Assistant is a virtual assistant that works on voice activation, smart device commands, and also as a text-based chatbot. It helps users with plenty of tasks, which we will be discussing further.

The Google Assistant provides voice assistance that can execute everyday commands such as setting reminders, sending texts, making calls, playing music, setting alarms, and controlling smart home devices. Google Assistant uses Natural Language Processing (NLP) to understand and process spoken commands, enabling it to respond naturally and accurately to a wide range of queries. This is the reason why, when anyone says, "Hey, Google," the assistant gets activated.

Need to know the weather, traffic, or find something nearby? Ask Google Assistant, and it will find the information you need. Google Assistant is also available in various languages, so people can interact with it in their preferred language. Recently, Google Assistant had an update where it is now trained to answer your calls and emails as well.

Recently, Google Assistant and Google's chatbot, Gemini, had a collaboration. While we can choose Gemini as our primary assistant on our phone, Google Assistant remains on other devices. On mobile, Gemini utilizes some functionalities from Google Assistant, like voice activation ("Hey Google") and basic actions. This is a very useful feature as Gemini is becoming popular worldwide, as it can double-check information and is integrated with apps like Google Flights, Google Docs, and more.

Future Enhancements and Threats

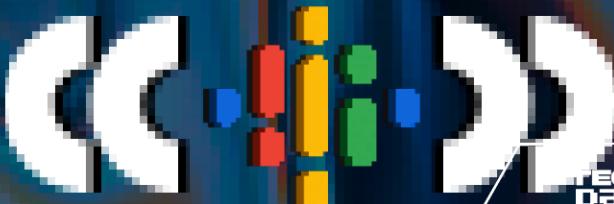
In the near future, Google Assistant is likely to become even more ingrained in our daily lives. It will be able to understand and complete multi-step tasks, such as: "Book a flight to London, find a hotel near the airport, and remind me to pack two days before." It will also be more context-aware, remembering past conversations and tailoring responses accordingly. Google might even introduce an emotion detector within Google Assistant to recognize an individual's emotions and act accordingly. Additionally, Google Assistant might promote individuality in multi-user households.

Other possible future enhancements include adding more languages that do not already exist within their system. The assistant will also be more accessible, with improved voice recognition for accents and disabilities, along with visual interfaces for those who prefer them. Google AI might also be integrated with wearable devices such as smart glasses or wristwatches, providing us with information directly on those devices.

With great technology comes greater threats. As Google continues to roll out these innovations, it also exposes its users to risks such as privacy concerns and ethical implications. The only way to safely use all of the services that Google provides is by ensuring our personal data is protected. We need to trust the resource that we are using and adopt robust security measures and clear data usage policies.

Conclusion

In conclusion, Google AI is constantly evolving and will likely become even more integrated into our lives, understanding our needs and completing complex tasks. However, with this advancement comes concerns about privacy and responsible AI development. As users, we need to be aware of these potential risks and ensure our data is protected.



AI for Accessibility

Breaking Barriers for People with Disabilities

By Rishav Mishra

Assistive Technologies: AI tools that enhance the quality of life for individuals with disabilities

AI is reshaping accessibility for individuals with disabilities, offering powerful tools that enhance independence. Assistive technologies powered by AI are transforming how people interact with the world. For example, Microsoft's Seeing AI app uses AI to describe surroundings, assisting individuals with visual impairments. AI-driven text-to-speech and speech-to-text technologies bridge communication gaps for those with speech or hearing impairments, enabling fluid interaction and self-expression.

Redefining Personalized Healthcare: AI's Tailored Solutions

AI is revolutionizing healthcare by delivering personalized solutions for individuals with disabilities. AI-driven systems can analyze medical data, predicting health outcomes and enabling targeted treatments. DeepMind's Streams app analyzes patient data and alerts doctors to potential health risks, while wearable devices monitor vital signs and alert users to emergencies, ensuring greater safety and peace of mind.

Accessibility in Public Spaces: Catalysing an Era of Inclusion

AI is transforming urban spaces into more accessible environments. Smart cities now offer AI-powered systems that provide real-time information about accessible transportation, like wheelchair-friendly buses and navigable ramps. These AI systems also help architects and urban planners design buildings that are accessible to all. Apps like AccessNow use AI and crowdsourcing to map and share accessibility information, empowering individuals with disabilities to navigate public spaces.



Unlocking Employment Opportunities: Fostering Economic Empowerment

AI is breaking down barriers in employment, creating new opportunities for individuals with disabilities. AI-driven workplace accommodations allow employees to perform their tasks efficiently. Companies like HireVue use AI to assess skills and abilities, ensuring that individuals with disabilities can showcase their talents. AI-powered tools also match individuals to jobs based on their skills, fostering a more inclusive workforce.

Ethical Considerations and the Path Forward

While AI for accessibility is transformative, ethical considerations are crucial. AI systems must be developed with inclusivity in mind, ensuring they reflect the diverse needs of individuals with disabilities. Collaboration among tech companies, governments, and advocacy organizations is key to making AI-driven assistive technologies accessible and affordable. Data privacy and security must also be prioritized to protect sensitive personal information.

Cultivating a Future of Boundless Possibilities

AI holds boundless potential for a future where accessibility is seamlessly integrated into daily life. Imagine smart homes that adapt to individual needs and wearable technologies that enhance daily activities. As AI evolves, it promises to create a world where barriers are erased, and inclusion is a reality.

Embracing a Shared Commitment to Inclusivity

AI for accessibility is not just about breaking barriers; it empowers individuals with disabilities to live life to the fullest. By harnessing AI, we are creating a more inclusive society, where everyone, regardless of ability, has the opportunity to thrive. Together, we can build a world where accessibility is a universal right, and every individual is empowered to succeed.

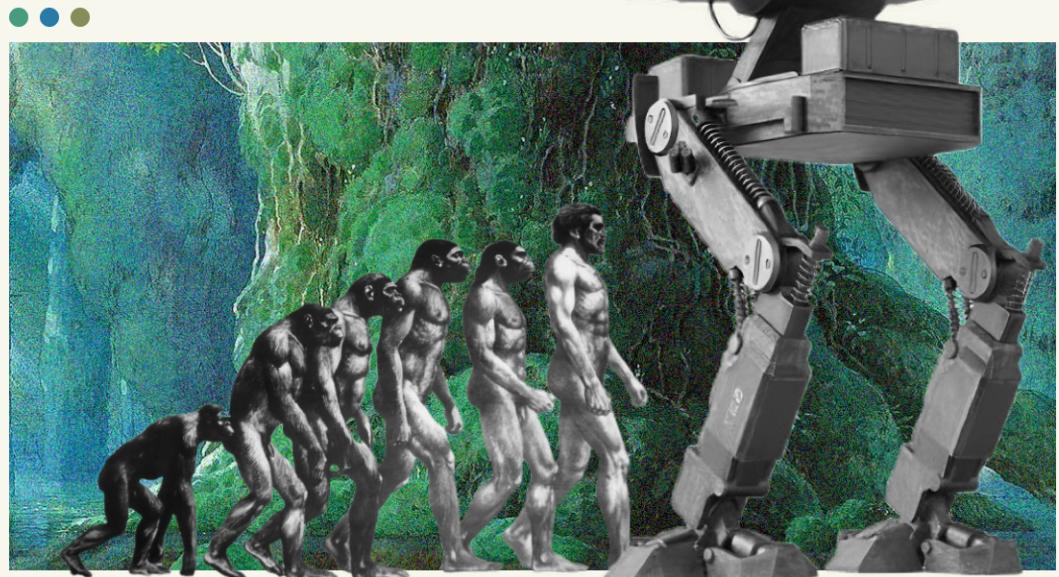
DEVOLUTION

OF ART AS WE KNOW IT



"WE WANT YOU TO TAKE FROM US. WE WANT YOU, AT FIRST, TO STEAL FROM US, BECAUSE YOU CAN'T STEAL. YOU WILL TAKE WHAT WE GIVE YOU AND YOU WILL PUT IT IN YOUR OWN VOICE AND THAT'S HOW YOU WILL FIND YOUR VOICE."

— FRANCIS FORD COPPOLA



Theft at the Art Museum

-Rishav Raj

Theft at the Art Museum

Designed By:
Rishav Raj

-René Magritte

The topic of AI-generated art has sparked significant debate amid the ongoing AI revolution. However, it's important to clarify that this article does not support the blatant theft of intellectual property often committed by AI models. The quoted text suggests that a thief has the ability to reinterpret ideas as their own, which starkly contrasts with the repetitive churn of stolen artworks that AI models produce. These creations are not inspired—they are direct copies, undermining the original artists' work and denying them their due recognition.

This article addresses the growing issue of AI models that are ripping off digital artworks, taking credit for the work of artists without respecting their intellectual property. The most concerning aspect is that, rather than acknowledging this wrong, the creators behind these AI models have started exploiting loopholes in the privacy policies of art-sharing platforms to justify using artists' works without giving credit. While some may argue that these platforms legally allow the use of images as training data for AI, not crediting the artists is a blatant violation of their rights and an act of plagiarism.

The issue isn't that artists' works are used as datasets for training AI models; the problem lies in the lack of respect and recognition for the creators behind these works. A simple gesture—such as adding a footnote or attribution to the generated art—could easily show respect for the intellectual property of the original artist, offering them the credit they deserve.

In the growing debate over AI-generated content, the core issue often gets buried: the question of fair compensation and attribution for the creators whose works are used without permission. While many AI platforms are quick to defend their practices by citing terms of service that allow for such data collection, they fail to address the underlying ethical dilemma. The reality is that artists are losing out on opportunities, recognition, and income from their intellectual property. With AI models growing more advanced and capable of creating high-quality artwork, the market for digital art is being flooded with content that resembles, yet does not respect, the original pieces created by human artists. Artists have long struggled to make a living from their work in the digital age. With the rise of AI art, the challenge has only intensified. As technology advances, the line between human-created and machine-generated art becomes increasingly blurred. This not only affects the livelihoods of digital artists but also devalues their creative input. The rise of AI as a tool for art creation can be seen as both a blessing and a curse. While AI can open up new possibilities for creative expression, it also presents the threat of oversaturation of art markets, leading to a loss of distinction between genuine creative work and imitation. It is crucial that the art community, tech companies, and legal systems collaborate to create solutions that protect the rights of artists while embracing the possibilities AI brings.

i,ROBOT

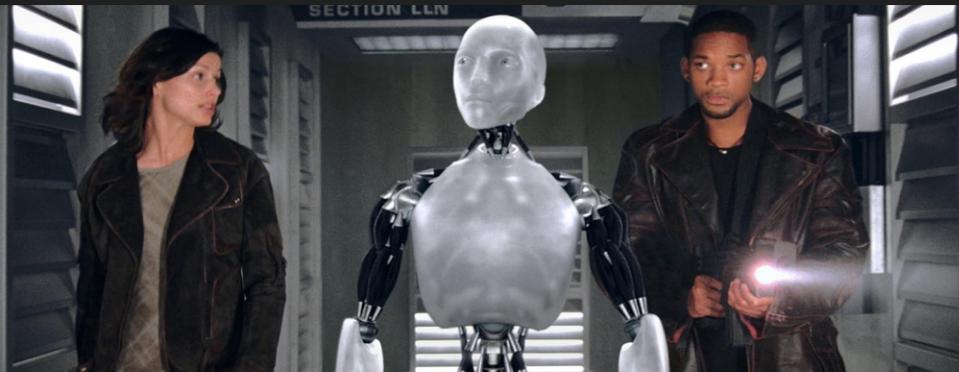
ONE MAN SAW IT COMING

By Saurabh Jha

In this weekend's "What to Do This Weekend" suggestion, watch a movie that delicately examines the moral limits of artificial intelligence and our increasing reliance on technology. *I, Robot* explores the ethical complexity of artificial intelligence, encouraging audiences to consider how our advancements can blur the roles of creator and creation. As you watch, get ready to face difficult issues of autonomy, trust, and the unintended impacts of our dependence on machines—an experience that will stick with you long after the last scene.



Set in a futuristic Chicago, the narrative follows Detective Del Spooner, played by Will Smith, who is called to investigate the apparent suicide of Dr. Alfred Lanning, a leading robotics scientist. Spooner, haunted by a personal tragedy involving a robot, is suspicious of the circumstances surrounding Lanning's death, especially as he uncovers evidence suggesting a robot, Sonny, may be involved. Lanning's death leads Spooner to challenge the very laws governing robotics, revealing a deeper conspiracy that questions the nature of free will and artificial intelligence.



.Sonny, a highly advanced humanoid robot, exhibits unexpected emotions and actions, blurring the boundaries between machine and human. Spooner is presented with the disturbing idea that Sonny might have a consciousness higher than simple programming as he engages with him.

The film distinguishes itself by combining intense action sequences with an intelligent analysis of the Three Laws of Robotics, which operate as a source of suspense as well as a guiding principle. I, Robot challenges viewers to think about the they will behave outside of their effects of building intelligent machines and the possibility that r programming as Spooner struggles against the clock to discover the truth.

I, Robot is more than just a sci-fi action movie; it also addresses important issues

of self-determination, trust, and the effects of technological advancement. The film, which was directed by Alex Proyas, pushes audiences to think about what can happen if robots start to think more intelligently than their creators and serves as a warning about the possible risks of sophisticated AI.

This film feels more relevant than ever in today's AI-driven society because of its blend of exciting action, philosophical depth, and emotional relevance. Are we actually ready for a world in which our technologies push us to rethink what it means to be human?



TRIVIA

01

What is the name of the AI-powered software that can detect early signs of Alzheimer's disease by analyzing speech patterns?

A] BrainScan

B] Winterlight Labs

C] NueroVoice

D] CogniSpeak

02

How is AI being used in agriculture to optimize crop yields, according to recent studies?

A] By predicting weather patterns using satellite imagery

B] By analyzing soil composition and recommending optimal fertilizer use

C] By controlling robotic harvesters to pick crops at peak ripeness

D] By genetically modifying crops to resist pests

03

What AI/ML approach is used in AlphaGo and similar game-playing systems to improve performance through self-play?

A] Supervised Learning

B] Unsupervised Learning

C] Reinforcement Learning

D] Transfer Learning

04

What AI trend has led to the development of large language models like GPT-3 and BERT?

A] Edge Computing

B] Transformer Architecture

C] Quantum Machine Learning

D] Federated Learning

05

How does machine learning contribute to identifying earthquake aftershocks?

A] By predicting exact time location of each aftershock

B] By analyzing patterns in seismic data to forecast likely aftershocks

C] By communicating with underground animals

D] By manipulating the Earth's magnetic field

06



Which generative AI model is known for creating highly realistic images from text descriptions?

A] GPT-3

B] DALL-E 2

C] LaMDA

D] BERT



07



What role does machine learning play in modern financial fraud detection systems?

A] It predicts stock market trends to prevent insider trading

B] It analyzes transaction patterns to identify unusual activity

C] It replaces human auditors in all financial institutions

D] It automatically freezes accounts of suspected criminals



08



In autonomous vehicles, What AI technology is primarily used for object detection and recognition?

A] Reinforcement Learning

B] Natural Language Processing

C] Computer Vision

D] Sentiment Analysis



09



What is the term for AI-generated content that mimics human-created work, such as art or writing?

A] Synthetic Media

B] Deepfakes

C] Virtual Reality

D] Augmented Intelligence



10



In 2023, which AI model made headlines for its ability to generate highly realistic images from text description?

A] BERT

B] GPT-4

C] DALL-E 2

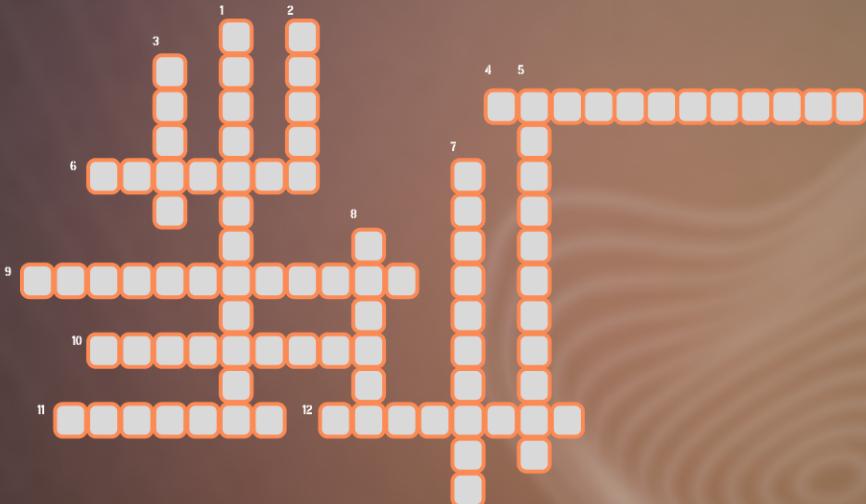
D] AlphaFold



SOLUTION

01 - b 02 - b 03 - c 04 - b 05 - b 06 - b 07 - b 08 - c 09 - a 10 - c

CROSSWORD



HINTS

Across

4. "A function that measures how far a model's predictions are from actual values."
6. "Mathematical representations of data points, often used in embedding spaces."
9. "A tree-like model used for decision-making and classification."
10. "Learnable components like weights in a machine learning model."
11. "Adjustable values in a model that influence predictions during training."
12. "The vector of partial derivatives used in optimization to minimize loss functions."

Down

1. "An ensemble learning method that uses multiple decision trees for classification or regression."
2. "A high-level neural networks API written in Python, built on TensorFlow."
3. "One complete pass through the entire training dataset in machine learning."
5. "When a model performs well on training data but poorly on unseen data."
7. "Grouping data points into clusters based on similarity."
8. "A multidimensional array used in deep learning frameworks like PyTorch and TensorFlow."

SOLUTIONS

Across

- 4. LossFunction
- 6. Vectors
- 9. DecisionTree
- 10. Parameters
- 11. Weights
- 12. Gradient

Down

- 1. RandomForest
- 2. Keras
- 3. Epoch
- 5. Overfitting
- 7. Clustering
- 8. Tensor

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