



**SRI VENKATESWARA COLLEGE OF ENGINEERING AND TECHNOLOGY
(Autonomous)**

DEPARTMENT OF INFORMATION TECHNOLOGY

CIRCULAR

Date: 25-11-2024

It is hereby informed that our department is planned to organize an Online Seminar to all the students of IT department on the topic “**AI Technologies and The Future of Work**” on **30-11-2024**. All the students are instructed to use this opportunity and attend the same without fail.

HOD - IT

Copy to:

1. Principal sir for kind information
2. Circulate among the faculty
3. Circulate among the students



**Sri Venkateswara College of Engineering and Technology
(Autonomous)**

R V S Nagar, Chittoor, Andhra Pradesh, 517127 India

Department of Information Technology in Association with SIE Cell SVCET

Cordially invite you for the Online Seminar

“AI Technologies and The Future of Work”

Resource Person

Mr. Bishnu Kumar Bhagat, Technical Lead at Veri Park,

Hamburg, Germany.

Date: 30-11-2024

AI Technologies and the future of work
Saturday, November 30 · 2:30 – 3:30pm
Time zone: Asia/Kolkata
Google Meet joining info
Video call link: <https://meet.google.com/dft-qczb-psu>
Or dial: (US) +1 224-801-4793 PIN: 736 874 375#

Event Coordinator

Mr.S.R.Rajkumar, Prof/IT

HOD – IT

(Dr. J.Velmurugan)



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DEPARTMENT OF INFORMATION TECHNOLOGY

"AI TECHNOLOGIES AND THE FUTURE OF WORK"



Online (Google Meet)



Resource Person

Mr. Bishnu Kumar Bhagat

Technical Lead at Veripark
Hamburg, Germany

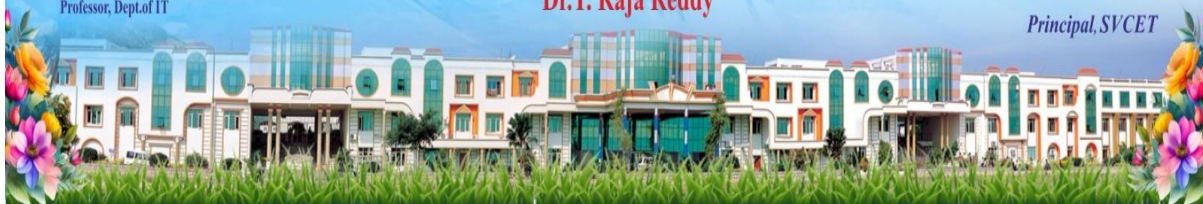
Date
**30th November
2024**

Time
**02:30 PM
to
03.30 PM**

Co Coordinator
Mr.S.Raj Kumar M.Tech.,
Professor, Dept.of IT

Dean, SIE Cell
Dr.T. Raja Reddy

Co-Patrons
Dr.M. Mohan Babu
Principal, SVCET



Seminar Report

Title: AI Technologies and The Future of Work

Date: November 30, 2024

Mode: Online

Venue: SVCET

Audience: Students of the IT Department, SVCET

Coordinator: Mr. S.R. Rajkumar and IT Department Faculty Members

HoD-IT: Dr. J. Velmurugan

The Department of Information Technology at SVCET hosted a seminar titled "*AI Technologies and The Future of Work*" on November 30, 2024. The event was conducted online and featured Mr. Bishnu Kumar Bhagat, Technical Lead at Veri Park, Hamburg, Germany, as the distinguished resource person. The seminar was attended by enthusiastic IT students, guided by the faculty team, and coordinated by Mr. S.R. Rajkumar under the leadership of Dr. J. Velmurugan, HoD of IT.

Objective of the Seminar

The primary aim of the seminar was to provide students with an in-depth understanding of the evolving landscape of artificial intelligence (AI) and its transformative impact on the future of work. The session was designed to bridge the gap between academic knowledge and practical industry insights, preparing students for upcoming trends in the IT industry.

Highlights of the Seminar

1. Introduction to AI Technologies:

Mr. Bhagat began by explaining the fundamental concepts of AI, including machine learning, deep learning, natural language processing, and computer vision. He emphasized how these technologies are reshaping industries and automating complex tasks.

2. Emerging Trends in AI:

He detailed the latest advancements in AI, such as generative AI, edge computing, AI in the cloud, and ethical considerations in AI deployment. Case studies from Veri Park were shared to illustrate real-world applications.

3. Impact on the Future of Work:

- Mr. Bhagat highlighted how AI is redefining roles across various sectors, from healthcare and finance to education and logistics.
- He discussed the creation of new job roles, such as AI ethicists, AI trainers, and data annotators, alongside the automation of repetitive tasks.
- Students were advised to focus on developing critical thinking, problem-solving, and creativity to stay relevant in an AI-driven workplace.

4. Skill Development and Career Guidance:

Mr. Bhagat shared tips on skills that IT professionals should cultivate, including programming in Python, understanding AI frameworks like TensorFlow and PyTorch, and staying updated with trends in data science and AI ethics. He encouraged students to embrace continuous learning and experimentation.

5. Interactive Q&A Session:

The seminar concluded with an engaging Q&A session where students asked insightful questions about AI trends, its ethical implications, and career opportunities. Mr. Bhagat provided practical advice and motivated students to embrace challenges in this dynamic field.

Conclusion

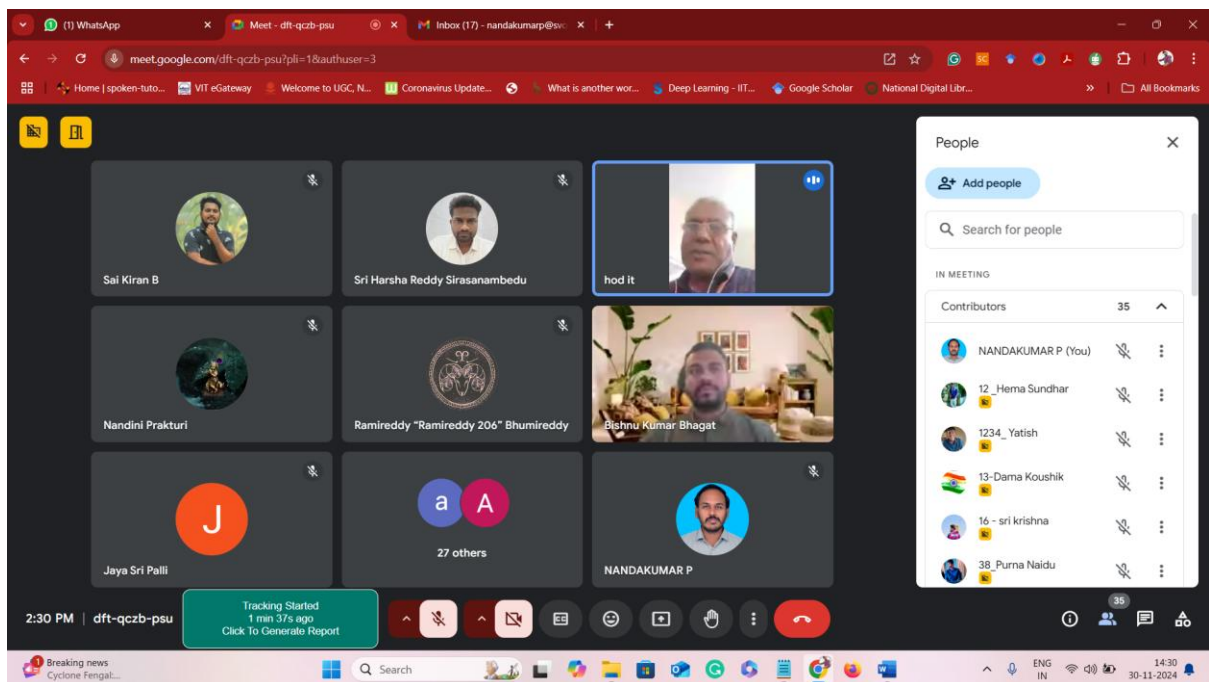
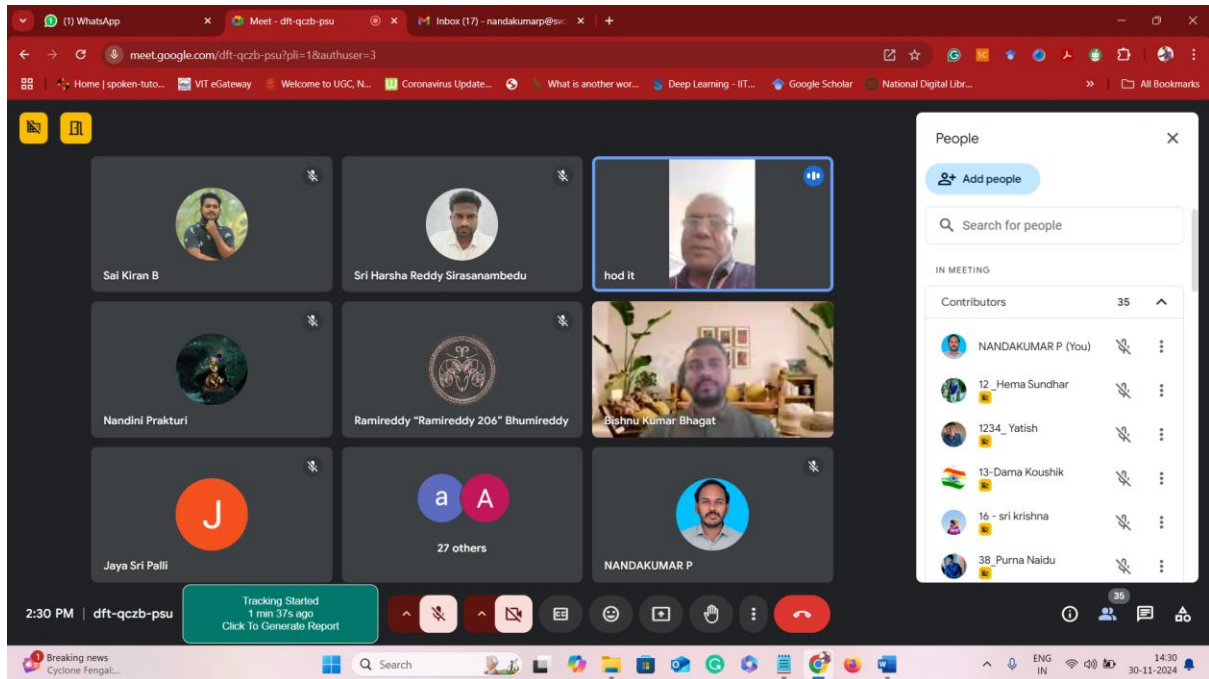
The seminar was an immense success, offering students a valuable perspective on the intersection of AI technologies and the future of work. The practical insights shared by Mr. Bhagat were deeply appreciated by the audience.

Dr. J. Velmurugan, HoD of IT, delivered the vote of thanks, expressing gratitude to Mr. Bhagat for his enlightening session and the organizing team for their efforts. The seminar served as a significant step in empowering IT students to prepare for the challenges and opportunities in the rapidly evolving tech landscape.

Feedback:

The participants highly praised the seminar, noting that it broadened their understanding of AI and inspired them to explore its potential in their academic and professional pursuits.

Screenshots



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Bishnu Kumar Bhagat (Presenting)

AI Technologies & The Future of Work

Bishnu Kumar BHAGAT

Saturday, 30 Nov 2024 SVCET, Chittoor

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Bishnu Kumar Bhagat (Presenting)

Agenda

- Introduction
- Brief History of AI
- Core Elements of AI
- AI Classification
- Future of AI

AI Technologies & The Future of Work 2

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Bishnu Kumar Bhagat (Presenting)

What do you think AI is?

AI

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Bishnu Kumar Bhagat (Presenting)

AI in Movies?

In movies, robots are able to talk, think, have emotions, and make decisions just like humans.

KALUKI

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Bishnu Kumar Bhagat (Presenting)

What is Artificial Intelligence

- Artificial Intelligence in its broadest sense, is intelligence exhibited by machines, particularly computer systems. It is a field of research in computer science that develops and studies methods and software that enable machines to perceive their environment and use learning and intelligence to perform tasks that would otherwise require human intelligence.
- Examples of these tasks are visual perception, speech recognition, decision-making, and translation between languages etc.
- Real life AI Examples
 - Advanced Web search Engines like Google Search
 - Recommendations Systems used by YouTube, Amazon, Netflix etc
 - Chatbots like ChatGPT, Microsoft Copilot, Gemini
 - Self Driving Cars
 - Human vs Computer Games
 - Many More!

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Bishnu Kumar Bhagat (Presenting)

WEAK AI vs STRONG AI



Machines with weak Artificial Intelligence are made to respond to specific situations, but can not think for themselves.



A machine with strong AI is able to think and act just like a human. It is able to learn from experiences. Since there are not much real life examples of strong AI yet, the best representation would be how movie portrays robots.

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Bishnu Kumar Bhagat (Presenting)

Brief History of AI

AI has gained significant attention in recent years – but AI is not new and can trace its history back to the development of computers after the Second World War, with the Dartmouth Conference in 1956 bringing together researchers from multiple fields to explore “thinking machines”. This is widely considered the start of AI as a distinct field of study and where the term “Artificial Intelligence” was used for the first time by the visionaries at that conference.

But it was not until the turn of the century that AI really came to the public’s attention, when the IBM Deep Blue supercomputer beat chess grandmaster Gary Kasparov in 1997, with artificial intelligence algorithms developed by IBM engineers.

Over the past decade several companies have taken this a step further and developed AI systems that have achieved incredible results and performed tasks not possible by humans, due to the huge scale and complexity of the challenge.

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Bishnu Kumar Bhagat (Presenting)

‘BOOM’ IN AI GENERATE CONTENT

In 2018 a painting “Edmond de Belamy from La Famille de Belamy” was sold at auction house in New York for a staggering \$432,500 (USD). It was generated with artificial intelligence after being trained on many images of portraits from the 18th and 19th centuries and was the first piece of AI art sold at auction.

In 2023, a museum in The Hague (Netherlands) loaned the world famous, Girl with Pearl Earring (c. 1665) by Johannes Vermeer to an international exhibition and temporarily replaced it in their gallery with an AI inspired version entitled Girl with Glowing Earrings, with many visitors to the gallery believing it was a real painting.

In April 2023 the German artist Boris Eldagsen won the 2023 Sony World Photography Award with an image entitled Pseudonnesia: The Electrician, before refusing the prize after revealing it was created by AI.

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Bishnu Kumar Bhagat (Presenting)

ALGORITHMS : THE BRAINS OF AI

Traditional Algorithm

The intelligence in traditional computer systems comes directly from human knowledge and expertise being recorded into a format that a computer can process.

IF the patient has a fever AND is allergic to Drug X
THEN prescribe Drug Y
ELSE prescribe Drug X

This example now starts to illustrate a key limitation of traditionally programmed systems. To develop a useful and reliable 'digital doctor', a huge number of rules and exceptions would be required that the system would very quickly become very large and very complicated. Thousands of IF-THEN-ELSE rules would still be unlikely to capture all of a real doctor's expertise and experience gained over time.

AI Technologies & The Future of Work 10

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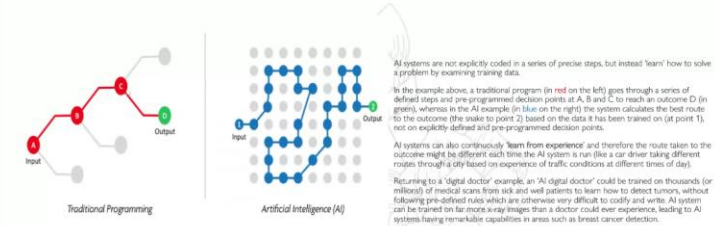
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Bishnu Kumar Bhagat (Presenting)

ALGORITHMS : THE BRAINS OF AI



AI systems are not explicitly coded in a series of precise steps, but instead 'learn' how to solve a problem by examining training data.

In the example above, a traditional program (in red on the left) goes through a series of defined steps and pre-programmed decision points at A, B and C to reach an outcome D (in green), whereas in the AI example (in blue on the right) the system calculates the best route to the outcome (the snake to point 2) based on the data it has been trained on (at point 1), not on explicitly defined and pre-programmed decision points.

AI systems can also continuously learn from experience and therefore the route taken to the outcome might be different each time the AI system is run (like a car driver taking different routes through a city based on experience of traffic conditions at different times of day).

Returning to a 'digital doctor' example, an 'AI digital doctor' could be trained on thousands (or millions) of medical scans from sick and well patients to learn how to detect tumors, without following pre-defined rules which are otherwise very difficult to codify and write. AI system can be trained on far more ways images than a doctor could ever experience, leading to AI systems having remarkable capabilities in areas such as breast cancer detection.

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Bishnu Kumar Bhagat (Presenting)

EXPLAINABLE AI

It is possible to verify the output of an AI system as correct (for example did a patient really have cancer or not), but it may not be possible to know exactly how the AI system got to a decision or outcome, as the AI has calculated the 'interim steps' (e.g. the blue snake in the diagram above) by itself. AI systems are therefore sometimes referred to as 'black boxes' with details of exactly how they work and operate - in some cases - not fully known, or understood.

The 'digital doctor' example nicely illustrates why 'explainable AI' is so important (in this case for both the patient and the doctor) to understand why an AI system has made a decision and believes a patient has breast cancer before sending them for intrusive cancer treatment (i.e. to understand the magic inside the black box and to turn a 'black box' into a 'glass box').

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Bishnu Kumar Bhagat (Presenting)

TRAINING AI

When considering how an AI system is constructed, there are two primary methods for how an AI system 'learns' to perform a task, which are machine learning and deep learning.

- **Machine Learning:** Machine Learning (ML) systems can learn from huge amounts of data and continuously improve their performance over time when provided with more and/or better quality training data. With this 'knowledge' gained from training data, machine learning powered AI systems can then make predictions (such as for weather forecasting), or recognize patterns in data (such as for image and speech recognition).
- **Deep Learning:** Deep Learning (DL) is a more sophisticated subset of Machine Learning and uses complex processes inspired by the human brain called Artificial Neural Networks (ANNs). Deep learning systems can excel at very complex tasks such as generating new works of art, self-driving cars and medical drug discovery.

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Bishnu Kumar Bhagat (Presenting)

DATA : THE FUEL THAT DRIVES AI

"Data is the new oil" is a phrase often associated with the digital age. Data is the fuel behind modern computing and AI algorithms, allowing them to learn, find relationships in data and make informed predictions and decisions.

In today's world, huge volumes of data are created as we go about our everyday lives. From text messages, emails, documents and social media posts, to photographs and videos on our smart phones.

A 2023 paper by the European Parliament on 'Artificial Intelligence Threats & Opportunities' 6 estimates that by 2025 the volume of data produced in the world each year could be 175 zettabytes (up from less than 1 zettabyte a year generated in 2010, which is a 175 x increase in the volume of data in just 15 years).

Data	Bytes	Size
1 Kilobyte (KB)	1,000	10 ³
1 Megabyte (MB)	1,000,000	10 ⁶
1 Gigabyte (GB)	1,000,000,000	10 ⁹
1 Terabyte (TB)	1,000,000,000,000	10 ¹²
1 Petabyte (PB)	1,000,000,000,000,000	10 ¹⁵
1 Exabyte (EB)	1,000,000,000,000,000,000	10 ¹⁸
1 Zettabyte (ZB)	1,000,000,000,000,000,000,000	10 ²¹

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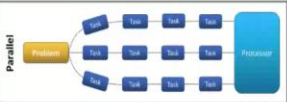
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Bishnu Kumar Bhagat (Presenting)

COMPUTING POWER : THE MACHINES BEHIND AI



Training AI systems typically requires a lot of data. This data can be very large and very complex and needs to be processed very quickly, which requires a lot of computing power.

For example, sophisticated AI chatbots (such as Gemini, Microsoft Copilot) were trained on datasets that included hundreds of billions of words. This task therefore requires a special type of computing power as it will take lots of years in a standard computer. So, there is a rise in advancement of GPU, TPU or NPU chips.

As GPU technology evolved for computer games, a key innovation was their ability to process tasks in parallel (rather than sequentially as in normal computers) are now a core and essential part of AI. This need has, in turn, propelled NVIDIA to become one of the world's most in demand and valuable companies, reaching a market valuation in excess of \$1 trillion in 2023, joining only 5 other companies in the world (Alphabet, Apple, Amazon, Microsoft, Saudi Aramco).

Since 2016, Google has also developed its own chip that is specifically designed for AI, called a TPU (Tensor Processing Unit). TPU chip takes a step further and can perform 'matrix calculations' which significantly accelerates machine learning tasks (Tensor Chips in Pixel Phones).

NPU (Neural Processing Units) are designed for on-device AI processing. They are optimized for mobile and edge computing environments. They offer superior energy efficiency and battery life compared to GPUs, making them suitable for AI tasks on smartphones and IoT devices. (A1718 Bionic chips in iPhone 15/16 Pro and Intel Ultra Processors)

Feature	CPU	GPU	TPU	NPU
Primary Role	General computing	Graphics and parallel tasks	Machine learning tasks	On-device AI inference
Processing Type	Sequential	Parallel	Tensor-based parallelism	Parallel
Energy Efficiency	Moderate	High power consumption for AI	Energy-efficient for AI	Extremely efficient
Best Use Cases	Office work, system ops	Gaming, AI training	Training large AI models	Mobile AI applications

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Bishnu Kumar Bhagat (Presenting)

COMPUTING POWER : THE MACHINES BEHIND AI



eFootball Computer Game Graphics of Argentinian Lionel Messi (2021 to 2023) *

Real Lionel Messi

18

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Bishnu Kumar Bhagat (Presenting)


CORE ELEMENTS OF AI

Core Elements of Artificial Intelligence


Algorithms + **Data** + **Compute**



Brains of AI



Fuel that Drives AI



Machines Behind AI

As these three core components of AI get increasingly more capable, accessible and affordable to businesses and the public, what AI can really achieve in the future is yet to be determined!

AI Technologies & The Future of Work

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Bishnu Kumar Bhagat (Presenting)


GENERATIVE AI



Generative AI ("Gen AI") is a relatively new form of AI that burst onto the global scene in late 2022 with the release of a sophisticated AI chatbot ChatGPT.

ChatGPT, along with other sophisticated AI chatbots released in 2023 such as Google Gemini and Microsoft Copilot, could be credited with really exposing the power and potential of AI to corporate businesses and the mass general public.

Some new Key players are Meta AI from Facebook and Apple Intelligence in the upcoming years due to its large user base.



AI Technologies & The Future of Work

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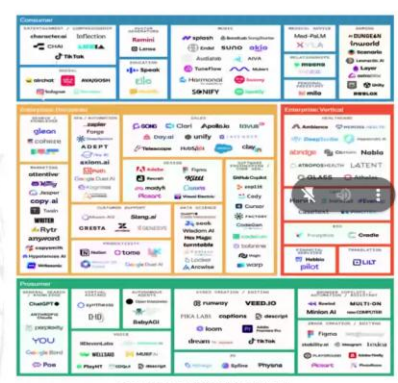
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Bishnu Kumar Bhagat (Presenting)

Generative AI Market



Generative AI Market Map v3 (By Sequoia Capital)

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Bishnu Kumar Bhagat (Presenting)

GLOBAL DIGITAL DIVIDE & AI SKILLS GAP

Al systems access more high quality data and use greater computer power, they become more accurate, creative and insightful. However it is also important to note that handling massive amounts of data can present privacy, security and data governance challenges for AI developers and users and that there is a significant data and 'digital divide' in the world.

International Telecommunications Union (ITU) – the UN agency responsible for advancing digital technology – estimates that 34% of the world has never been connected to the internet in 2022, representing 2.6 billion people. Therefore a third of the world's population does not have access to AI.

In addressing digital inequality, the science fiction writer William Gibson (who first used the term 'cyberspace' in his 1984 novel 'Countdown') is reported to have said over 30 years ago that "the future is already here, it's just not evenly distributed yet". This could be used to describe the global digital divide and AI situation today.

Many countries and companies are right at the start of their AI journey, with AI education and training essential to ensuring everyone benefits from AI. But this is not only the responsibility of businesses and starts with government driven digital education in schools, with AI training made available to everybody, at all stages of life, and especially in the least developed countries to help close (not expand) the global 'digital divide'.

The World's Offline Population: ITU Global Connectivity Report 2022
(Size of tile represents the country's share of the world's offline population)

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Bishnu Kumar Bhagat (Presenting)

Future of AI

We're in the midst of a revolution, just as steam power, mechanized engines, and coal supply chains transformed the world in the 18th century, AI technology is currently changing the face of work, our economies, and society as we know it.

Future Advancements in AI by 2034

Multimodal AI – Unlike Unimodal AI which mostly uses NLP (Natural Language Processing), this technology will integrate text, voice, images, videos and other data to create more intuitive interactions between humans and computer systems. We might see advanced virtual assistants and chatbots that understand complex queries and can provide bespoke text, visual aids or video tutorials in response.

Democratization of AI and easier model creation – AI will become even more integrated into personal and professional spheres, driven by user-friendly platforms that allow nonexperts to use AI for business, individual tasks, research and creative projects with No-code or Low-code platforms.

Hallucination insurance – Such insurance would protect financial institutions, the medical industry, the legal industry and others against unexpected, inaccurate or harmful AI outputs.

Quantum leaps – Quantum AI, using the unique properties of qubits, might shatter the limitations of classical AI by solving problems that were previously unsolvable due to computational constraints. Quantum computing offers a promising avenue for AI innovation, as it might drastically reduce the time and resources needed to train and run large AI models.

Beyond the binary – Binet models use ternary parameters, a base-3 system with 3 digits to represent information. This approach addresses the energy problem by enabling AI to process information more efficiently, relying on multiple states rather than binary data (0s and 1s). This might result in faster computations with less power consumption.

AI Technologies & The Future of Work

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Watchlist Ideas

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Bishnu Kumar Bhagat (Presenting)

Quiz

Q : Are any of the below holiday photos generated by AI ?



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Thank you

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