



**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 & ACM student chapter**



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



Event Coordinator

Mr.S.R.Rajkumar, Prof/IT

HOD – IT

(Dr. J.Velmurugan)



SRI VENKATESWARA COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous)

Accredited by NBA (Tier-1) & NAAC with 'A+' Grade, Approved by AICTE & Affiliated to JNTUA, Ananthapuramu
R.V.S Knowledge District, Chittoor - 517127, AP

**ALUMNI
CONNECT**



**ORGANISED
BY
SIE CELL IN ASSOCIATION
WITH**



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

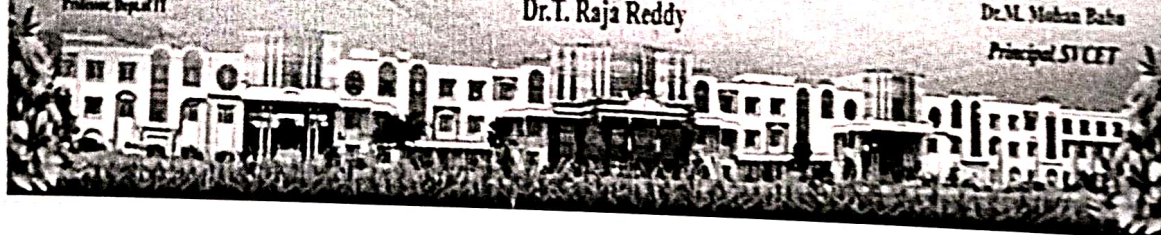
Date
30th November
2024

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. Mahan Babu
Principal, SV CET



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

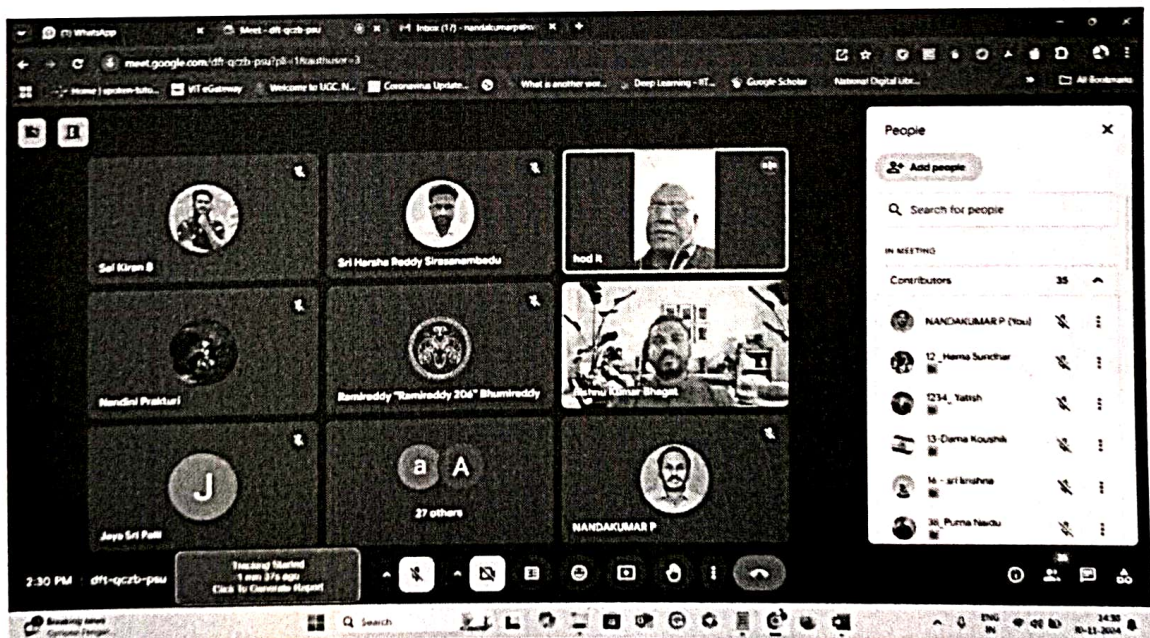
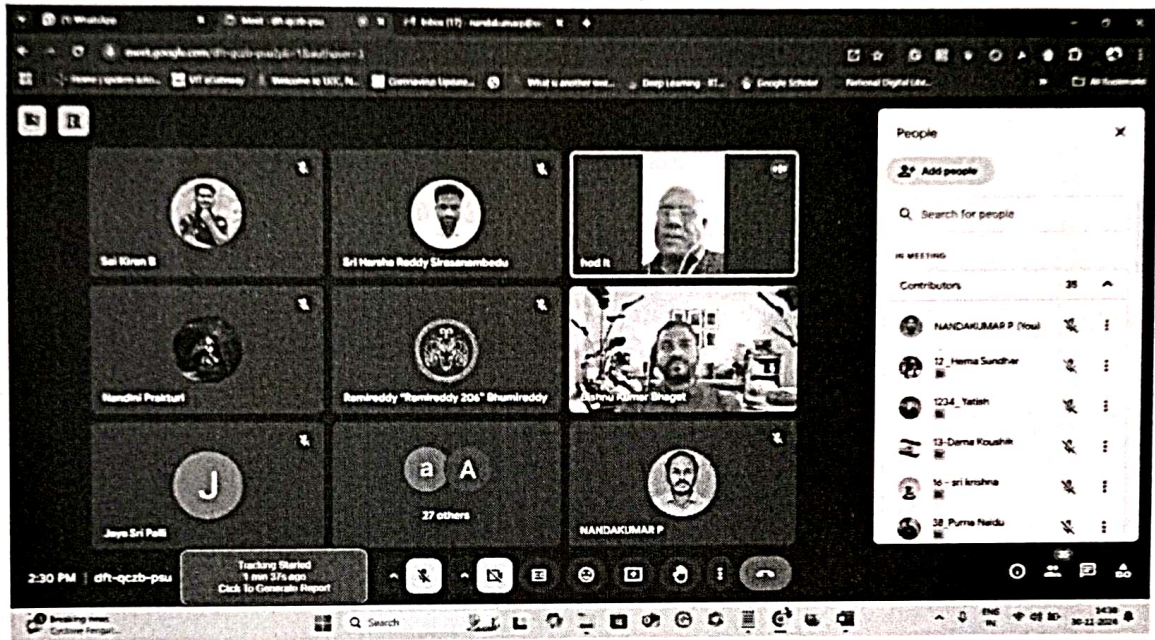
The seminar was an immense success, offering students a valuable perspective on the intersection of AI technologies and the future of work. The practical insights shared by Mr. Bhagat were deeply appreciated by the audience.

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



meet.google.com/dft-qczb-psu

Bishnu Kumar Bhagat (Presenting)

AI Technologies & The Future of Work

Bishnu Kumar BHAGAT

Saturday, 30 Nov 2024

Tracking Started 5 min 18s ago
Click To Generate Report

2:34 PM | dft-qczb-psu

Participants: Bishnu Kumar Bhagat, Jaye Sri Pathi, Syed Sammar, Anshayad Syed, 34 others, NANOJIMAS P.

meet.google.com/dft-qczb-psu

Bishnu Kumar Bhagat (Presenting)

Agenda

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

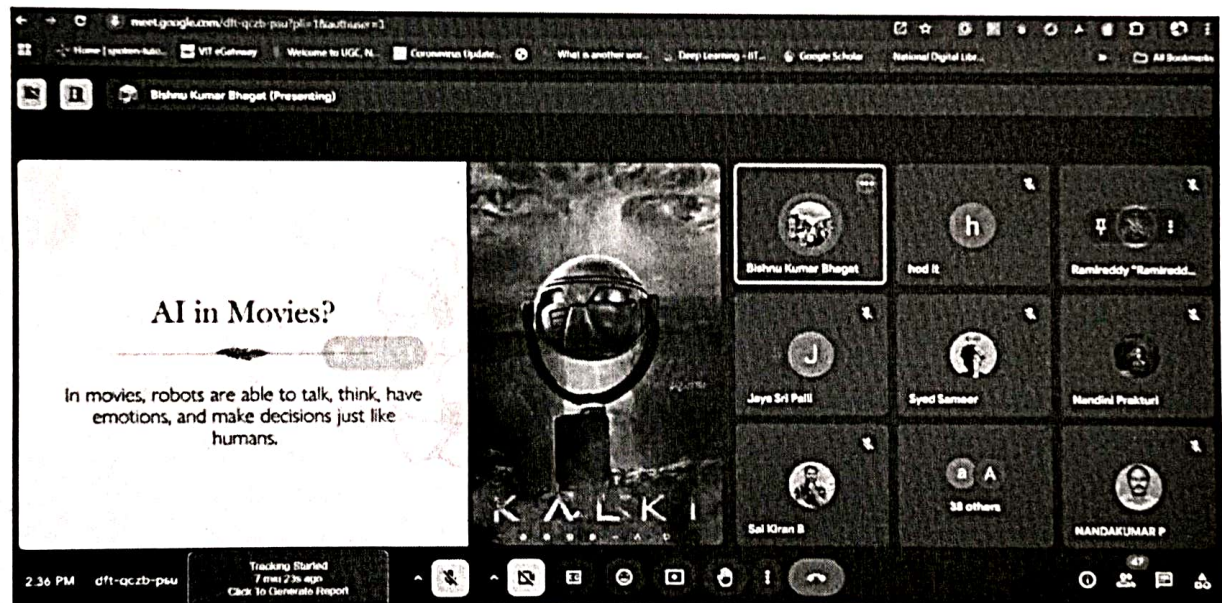
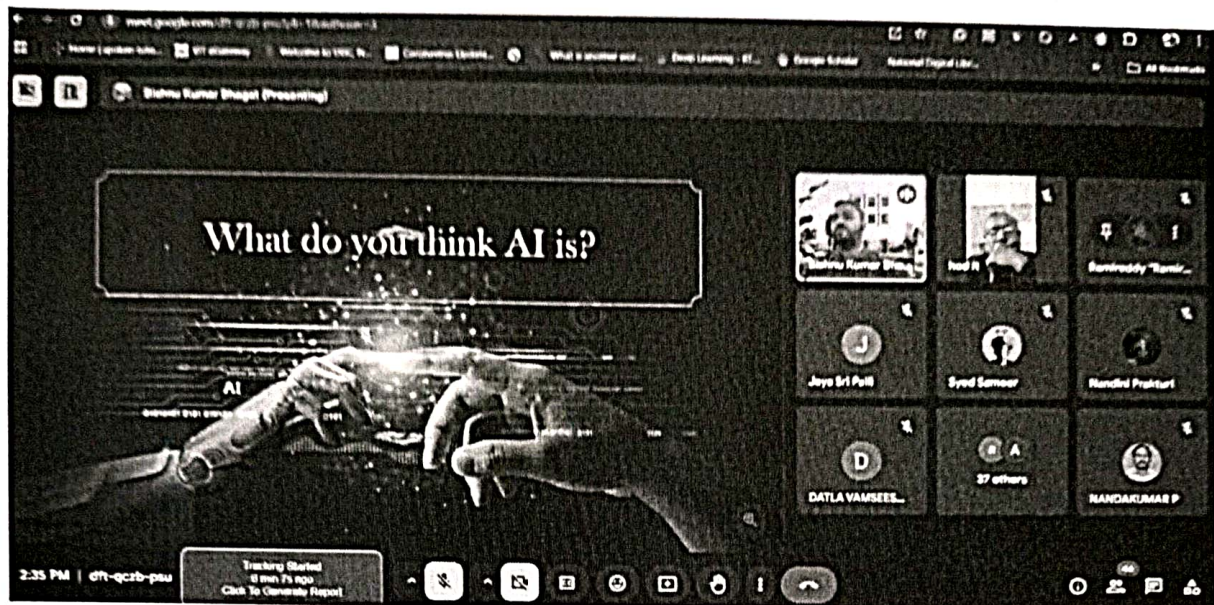
AI Technologies & The Future of Work

2

2:34 PM | dft-qczb-psu

Tracking Started 5 min 40s ago
Click To Generate Report

Participants: Bishnu Kumar Bhagat, Jaye Sri Pathi, Syed Sammar, DATLA VAMSEES..., 34 others, NANOJIMAS P.



www.google.com (IP: 192.168.1.1) [Back] [Forward] [Home] [Search] [Google Scholar] [National Digital Lib...]

Dr. B. K. S. (Presenting)

What is Artificial Intelligence

- Artificial Intelligence (AI) is a branch of computer science that aims to create machines that can think and learn like humans.
- AI is used in many applications, such as:
 - Speech recognition (e.g., Google Assistant, Siri)
 - Image recognition (e.g., Google Photos)
 - Recommendation systems (e.g., Netflix, Amazon)
 - Self-driving cars (e.g., Google Waymo)
 - Robotics (e.g., Boston Dynamics)
- AI is still in its early stages, but it has the potential to revolutionize many industries.

AI: The Future of Work

2:36 PM 091-9926-9999

Training Started 7 min 53s ago Click to Download Report

Participants:

- Dr. B. K. S.
- h
- h
- J
- Syed Samir
- Handini Pratist
- Sel Kiran B
- 43 others
- NANDARUMAS P

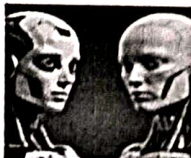
www.google.com (IP: 192.168.1.1) [Back] [Forward] [Home] [Search] [Google Scholar] [National Digital Lib...]

Dr. B. K. S. (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 experience. Since there are not much real life examples of strong AI yet, the best representation would be how movies portray robots.

AI: The Future of Work

2:39 PM 091-9926-9999

Training Started 10 min 53s ago Click to Download Report

Participants:

- Dr. B. K. S.
- Sel Kiran B
- h
- h
- J
- Syed Samir
- Handini Pratist
- 43 others
- NANDARUMAS P

meet.google.com/dh-qczb-pau?authuser=3

Home | System Info... | VIT eGateway | Welcome to VIT, N... | Coronavirus Update... | What is another way... | Deep Learning - IT... | Google Scholar | National Digital Lib...

Bharat 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 attendees 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 Garry 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.

AI Technologies & The Future of Work

2:41 PM | dh-qczb-pau

Tracking Started
12 min 14s ago
Click To Generate Report

Participants:

- Sai Kiran B
- Node
- DATLA VAMSEES...
- Jaya Sri Pulli
- Syad Samson
- Nandini Prakturi
- 39 others
- RANDAKUMAR P

meet.google.com/dh-qczb-pau?authuser=3

Home | System Info... | VIT eGateway | Welcome to VIT, N... | Coronavirus Update... | What is another way... | Deep Learning - IT... | Google Scholar | National Digital Lib...

Bharat Kumar Bhagat (Presenting)

'BOOM' IN AI GENERATE CONTENT

In 2016 a painting 'Edmond de Belamy' from Le Famil de Benay was sold at auction house in New York for a staggering \$432,500 (£525). It was generated with artificial intelligence after being trained on many images of portraits from the 15th and 19th centuries and was the first piece of AI art sold at auction.

In 2021, a museum in The Hague (Netherlands) loaned the world famous 'Girl with Pearl Earring' (1665) by Johannes Vermeer to an international exhibition and temporarily replaced it in their gallery with an AI-generated version entitled 'Girl with Clavichord Earrings' with many visitors to the gallery believing it was a real painting.

In April 2023 the German artist Boris Eldgen won the 2023 Sony World Photography Award with an image entitled 'Pseudomnesia'. The photograph, before reducing the prize after revealing it was created by AI.

AI Technologies & The Future of Work

2:42 PM | dh-qczb-pau

Tracking Started
14 min 0s ago
Click To Generate Report

Participants:

- Sai Kiran B
- Node
- DATLA VAMSEES...
- Jaya Sri Pulli
- Syad Samson
- Nandini Prakturi
- 37 others
- RANDAKUMAR P

meet.google.com/dft-qczb-pau?ui=1&authuser=1

Home | System Info... | Wi-Fi Gateway | Welcome to UGC N... | Coronavirus Update... | What is another use... | Deep Learning - IT... | Google Scholar | National Digital Lib... | All Bookmarks

Bishnu Kumar Bhagat (Presenting)

EXPLAINABLE AI

It is possible to audit the output of an AI system as correct (the example for a patient really have cancer or not) but it may not be possible to trace exactly how the AI system got to a decision or outcome as the AI has considered the unseen steps (eg. the final model 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 whether a patient has breast cancer before sending them for invasive cancer treatment (ie. to understand the magic inside the black box and to turn a 'black box' into a 'glass box').

AI Technologies & The Future of Work

2:50 PM dft-qczb-pau Tracking Started 21 min 41s ago Click To Generate Report

24°C Hyderabad

Search

ENG IN 14:55 30-11-2024

Participants: Bishnu Kumar Bhagat, Sai Kiran B, Jayo Sri Palli, Syed Sameer, Haridra Prakash, 16 - Sri Krishna, 36 others, NANDAKUMAR P

meet.google.com/dft-qczb-pau?ui=1&authuser=3

Home | System Info... | Wi-Fi Gateway | Welcome to UGC N... | Coronavirus Update... | What is another use... | Deep Learning - IT... | Google Scholar | National Digital Lib... | All Bookmarks

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 use large high volumes of data and automatically increase their performance over time when provided with more accurate better quality training data. With this knowledge gained from training, ML machine learning powered AI systems can then make predictions (e.g. as the weather forecasting, or recognise patterns in data such as the 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 (ANN). Deep learning systems can assist in any computer task such as generating new works of art, self-driving cars and medical drug discovery.

AI Technologies & The Future of Work

2:52 PM dft-qczb-pau Tracking Started 23 min 47s ago Click To Generate Report

24°C Hyderabad

Search

ENG IN 14:52 30-11-2024

Participants: Bishnu Kumar Bhagat, Sai Kiran B, Jayo Sri Palli, Syed Sameer, Haridra Prakash, DATLA VAMSEES..., 37 others, NANDAKUMAR P

meet.google.com/dt-qczb-psu (1 hour 45 min)

Home | Opened links... | VTC Gateway | Welcome to UGC, N... | Coronavirus Update... | What is another way... | Deep Learning - 87... | Google Scholar | National Digital Libr... | All Bookmarks

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* 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 175x increase in the volume of data in just 15 years).

Category	Unit	Value
1. Enterprise Data	Exabytes	10
2. Consumer Data	Exabytes	10
3. Government Data	Exabytes	10
4. Healthcare Data	Exabytes	10
5. Financial Data	Exabytes	10
6. Scientific Data	Exabytes	10
7. Media Data	Exabytes	10
8. IoT Data	Exabytes	10
9. Social Media Data	Exabytes	10
10. Mobile Data	Exabytes	10

2:55 PM dt-qczb-psu Tracking Started 30 min 26s ago Click to Generate Report

30c Heavy rain Search

ENG IN 30-11-2024

meet.google.com/dt-qczb-psu (1 hour 45 min)

Home | Opened links... | VTC Gateway | Welcome to UGC, N... | Coronavirus Update... | What is another way... | Deep Learning - 87... | Google Scholar | National Digital Libr... | All Bookmarks

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, to train a deep learning model, you need to process millions of images. This requires a lot of computing power. The more data you have, the better the model will perform. This is why AI systems are often trained on large datasets.

AI systems are designed to process data and make decisions. They are trained on large datasets and learn from the data. This allows them to make predictions and decisions based on the data they have seen.

AI systems are designed to process data and make decisions. They are trained on large datasets and learn from the data. This allows them to make predictions and decisions based on the data they have seen.

Key Differences - CPU vs GPU vs TPU vs NPU

Processor	Architecture	Strengths	Weaknesses
CPU	General Purpose	High performance for general tasks	Not optimized for AI workloads
GPU	Parallel Processing	High performance for AI workloads	High power consumption
TPU	Tensor Processing	High performance for AI workloads	High power consumption
NPU	Neural Processing	High performance for AI workloads	High power consumption

3:02 PM dt-qczb-psu Tracking Started 33 min 17s ago Click to Generate Report

Google +5.53% Search

ENG IN 30-11-2024

COMPUTING POWER: THE MACHINES BEHIND AI

2021 2022 2023

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

Real Lionel Messi

3:06 PM 071-qc2b-pau

Tracking Started
37 min 45s ago
Click To Generate Report

Search

End IN 10:10-2024

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!

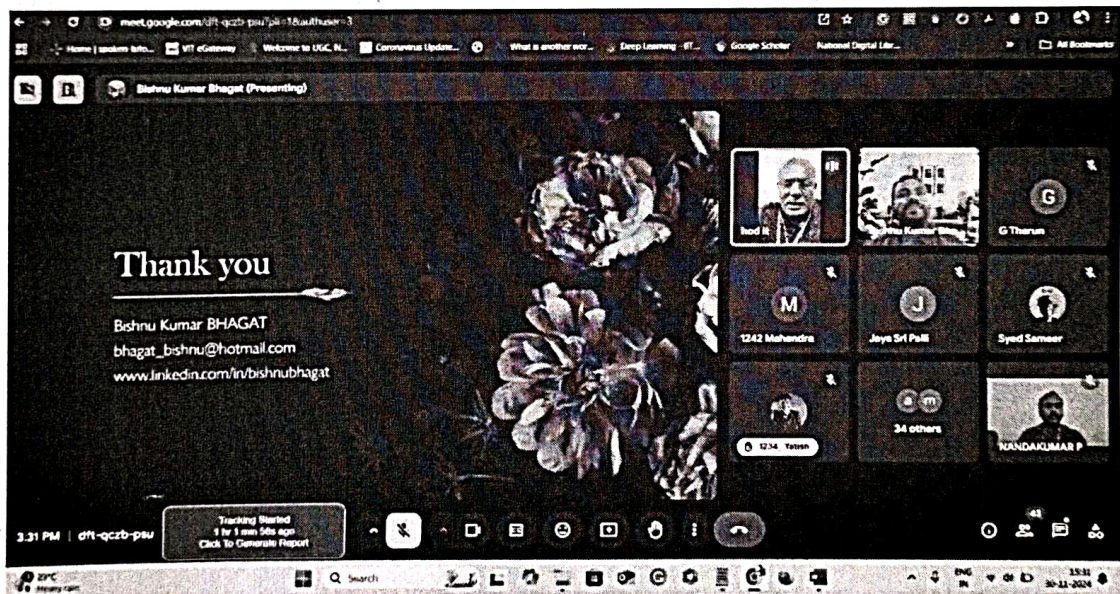
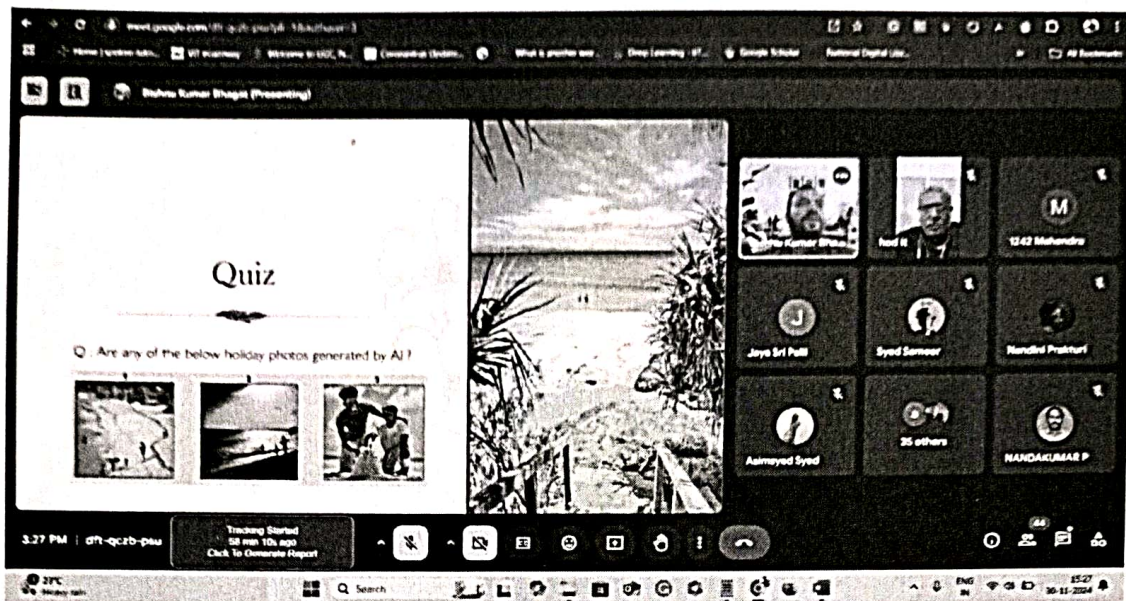
A. Technologies & The Future of Work

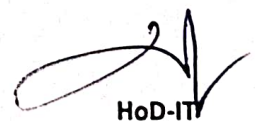
3:07 PM 071-qc2b-pau

Tracking Started
38 min 54s ago
Click To Generate Report

Search

End IN 10:11-2024




HoD-IT

Sri Venkateswara College of Engineering & Technology (Autonomous)
R.V.S Nagar Chittoor - 517127

DEPARTMENT OF INFORMATION TECHNOLOGY

Event: Online Seminar on "AI Technologies and The Future of Work"

Date: 30.11.2024

SNo	Roll No.	Name	Signature
1	23781A1201	AKKUPALLI THULASIRAM	A. Thulasiram.
2	23781A1202	AKUMALLA ADI NARAYANA	A. Adinarayana.
3	23781A1204	AYYA HIMA VARSHINI	A. Varshini
4	23781A1205	B ADHARSH KUMAR	B Adharsh Kumar.
5	23781A1206	B DHANUSH CHOWDARY	Bhanush
6	23781A1207	BANDARU INDU	Indu
7	23781A1208	BASI REDDY SREE SAI SATHISH KUMAR REDDY	Sathish
8	23781A1209	BUGGANNAGARI ARJUN	Arjun
9	23781A1210	CHALL MAHENDRA	Mahendra
10	23781A1211	CHALLA KRISHNA	Krishna
11	23781A1212	CHALLA VARUN KUMAR	Varun Kumar
12	23781A1213	CHARALA GANESH	Ganesh
13	23781A1214	CHEEMALA GANGA MYTHRESH	Ganga Mythresh
14	23781A1215	CHETURI NAZEER	NAZEER
15	23781A1216	CHEVVU LOHITHA	LOHITHA
16	23781A1217	CHIKATLA ANAND PAUL	Anand Paul
17	23781A1224	DONNAPATI VENKATESWARI	Venkateswari
18	23781A1225	DUDEKULA MAHAMMED ASIF	Mahammed Asif
19	23781A1226	EDAGOTTU MARUTHI	MARUTHI
20	23781A1227	ERIKALA CHANDRASEKHAR	E. Chandrasekh
21	23781A1228	G RAJESH	G. Rajesh
22	23781A1229	G VINAYAKA	G. Vinayaka
23	23781A1230	GADDAM CHANDRAKALA	chandra kala
24	23781A1231	GAJJALA SHASHI KUMAR REDDY	Shashi
25	23781A1232	GANGIREDDYGARI SASIREKHA	Sasirekha.
26	23781A1233	GODUGUCHINTA REDDY MUNI	Godugunta
27	23781A1234	GOLLA DIVYA	Divya
28	23781A1235	GUMMADISANI NIKHIL KUMAR REDDY	Nikhil
29	23781A1236	JILAJARLA JYOTHI	J. Jyothi
30	23781A1237	JOGIREDDY VENKATA RAVITEJA REDDY	Venkat
31	23781A1238	KASINENI MANASA	Manasa
32	23781A1251	MANDA SINDHU	Sindhu
33	23781A1252	MANDADI PRASANNA LAKSHMI	M. Prasan Lakshmi
34	23781A1253	MASAGANI REDDY BABU	Babu
35	23781A1254	MEDASANI ASWANI	Aswani
36	23781A1255	MEKALA MANOJ KUMAR	Manoj Kumar
37	23781A1256	MITTE SHANKARA	Shankara
38	23781A1257	MUDDAM RAVINDRA	Ravindra
39	23781A1258	MULA YERRANNA GARI TIRUMALA REDDY	Tirumala
40	23781A1259	MURUKUTI SUMANTH KUMAR REDDY	Sumanth
41	23781A1260	NAAMINI MOHITH	Mohith
42	23781A1262	NALAPAREDDY YAGNASREE	N. Yagnasree

43	23781A1263	P S G MOTHISHIMMULLA SHAH	Mothish
44	23781A1264	PADI DHARMA TEJA	Dharmaraj
45	23781A1265	PALA SHASHIDHAR	Shashidhar
46	23781A1266	PALAGRI MOHAMMAD SAMEER	M. Sameer
47	23781A1267	PANCHANGAM SREEJA	P. Sreeja
48	23781A1268	PANDI KARTHIK	P. Karthik
49	23781A1269	PASUPULETI ASIF	Pasupuleti Asif
50	23781A1270	PEDDYREDDYGARI SAGAR	P. Sagar
51	23781A1272	RAMA UDAYKIRAN	Rama Udaykiran
52	23781A1273	RAMACHANDRAYAPALLE GURUPRAVEEN	Gurupraveen
53	23781A1275	RAYACHOTY VENKATAPATHI	Venkata Pathi
54	23781A1276	S LOHITH	S. Lohith
55	23781A1277	SAKE SRI SAI VARDHAN	S. S. Vardhan
56	23781A1278	SANNAPANENI YASHMITHA	Yashmitha
57	23781A1279	SEATHUGARI PUSHPA LATHA	P. Latha
58	23781A1280	SHAIK ABDUL SAMEER	Shaik Abdul Sameer
59	23781A1282	SHAIK MAHAMMAD KAIF	Shaik Mahmud Kaif
60	23781A1283	SINGAMALA HARSHAVARDHAN REDDY	Harshavardhan Reddy
61	22781A1279	POLAGANI VENKATA RAMANA	V. Ramana
62	22781A1280	POOJITHA NALLAMADUGU	Poojitha Nallamadugu
63	22781A1281	POSA NAVEEN	Posa Naveen
64	22781A1282	R BALACHANDRA	R. Balachandra
65	22781A1283	RUDRARAJU VASANTH KUMAR RAJU	R. Vasanth Kumar Raju
66	22781A1284	SARIPIRALLA CHANDANA	S. Chandana
67	22781A1285	SHAIK ABDUL SADIK	Shaik Abdul Sadik
68	22781A1286	SHAIK AMAL	Shaik Amal
69	22781A1287	SHAIK ARSHIYA TASLEEM	Shaik Arshiya Tasleem
70	22781A1288	SHAIK MAHAMMAD FAJIL	Shaik Mahmud Fajil
71	22781A1289	SHAIK MAZEED MAHAMMAD	Shaik Mahmud Mazeed
72	22781A1290	SOMALA REDDY PRANATHI	S. Pranathi
73	22781A1291	SYED MOHAMMAD ASIM	S. M. Asim
74	22781A1292	TADIPARTHI PRAVEEN KUMAR REDDY	T. Praveen Kumar Reddy
75	22781A1293	TATIREDDY BHARATH SIMHA REDDY	T. Simha Reddy
76	22781A1294	TELLAKULA SOMASEKHAR	T. Somasekhara
77	22781A1295	THIPPANNA GARI NARAYANA REDDY	T. Narayana Reddy
78	22781A12A5	YEPURI GURU SAI	Y. G. Sai
79	22781A12A6	YETURI VENKATA SUDHARSHAN	Y. Sudharshan
80	22781A12A7	AASHISH SINGH	A. Ashish
81	22781A12A8	JIGYASHA KUMARI YADAV	J. Yadav
82	22781A12A9	CHHOTU KUMAR	Chhotu Kumar
83	23785A1201	JEEREDDY PRASANNA KUMAR REDDY	J. Prasan Kumar Reddy
84	23785A1202	JUTURU MANOHAR	J. Manohar
85	23785A1203	KARNATI SUNKUGARI TEJASWINI DEVI	K. Tejaswini Devi
86	23785A1204	MODDUPATI THILAK KUMAR	M. Thilak Kumar
87	23785A1205	PERIKALA RAVI KUMAR	P. Ravi Kumar
88	23785A1206	SINGANABOYINA SASI KUMAR	S. Sasi Kumar


HOD-IT