



CHATGPT: UNLOCK THE POWER OF AI

A webinar was conducted on ChatGPT to illustrate the present and future of AI for aspiring students by Department of Computer Science Engineering in collaboration with IEEE CS MVSr on 1st April, 2023. The speaker of the session was Mr. Bala Peddigari, Chief Innovation Officer & Global Head, Technology Advisory Services, TCS.

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Session Details:

Date: 1st April,2023

Time: 11:20 am to 1:00 pm

Number of Attendees: 52

Speaker of the Session: Mr. Bala Peddigari, Chief Innovation Officer & Global Head, Technology Advisory Services, TCS. He is a Technology Thought Leader and practitioner in building high performing product development teams and technological practices such as Artificial Intelligence, Enterprise Architecture, Cloud Solutions, Design Thinking, DevOps, Business Analytics, Modern Workplaces, Performance Engineering and Security. The speaker has done Master's in Computer Applications from University College of Engineering, Osmania and was Ranked University First and is pledging his time to volunteer for CSI, IEEE FTCCI, Internet Society and Open Group. He is certified Open CA Architect and Microsoft Azure Architect.

The meeting was commenced by Ms. Praharsha, IEEE MVSr Student Member by welcoming the speaker of the session Mr. Bala Peddigari, Chief Innovation Officer & Global Head, Technology Advisory Services, TCS, Dr. D. Hari Krishna, IEEE Student Branch Counsellor, Mrs. B. Saritha, IEEE CS Student Branch Advisor and all the students. Dr. D. Hari Krishna, IEEE Student Branch Counsellor addressed the gathering and encouraged the students the importance of such events and encouraged the participants to attend the same. Later, Ms. Praharsha, IEEE MVSr Student Member introduced and welcomed the speaker Mr. Bala Peddigari and then the session was handed over to him. The main agendas of the webinar were to teach the participants about ChatGPT, it's industry use cases and the skills and roles which will have an impact due to ChatGPT.



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Department of Computer Science & Engineering
IEEE MVSr Student Branch CS Chapter
presents

Seminar on

1st April 2023
11:30am-12:30 pm
Online

**CHATGPT:
UNLOCK THE POWER OF AI**



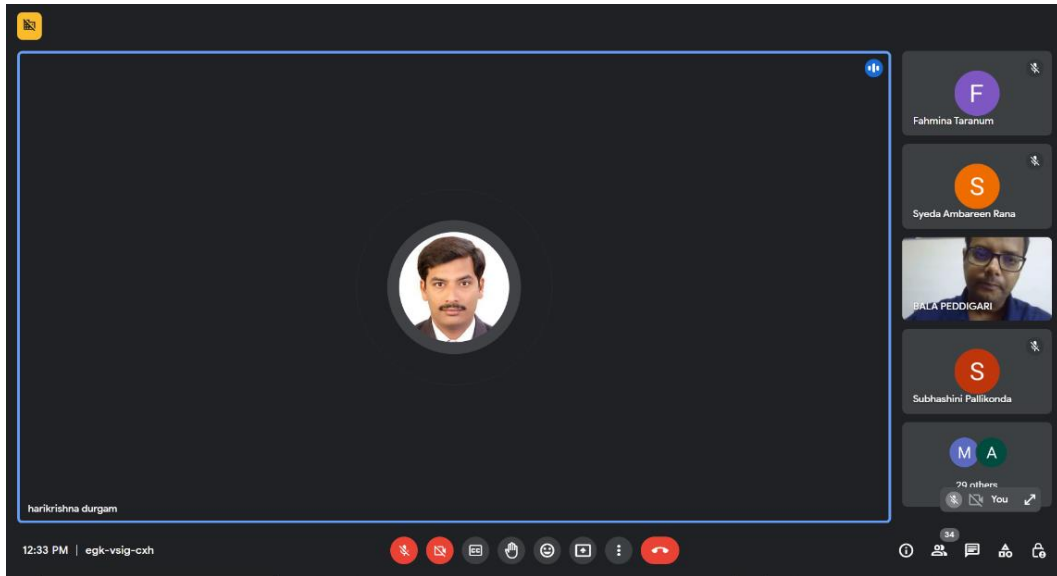
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Registration link:
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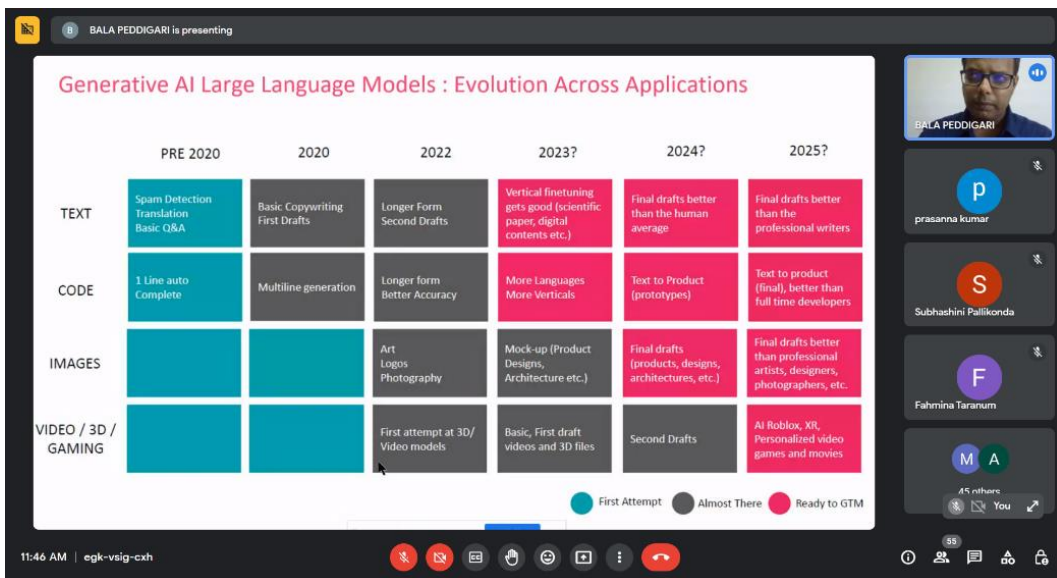
  

Meet link: <https://meet.google.com/egk-vsfg-cxh>

The Poster of the event “ChatGPT: Unlock the Power of AI”



Dr. D. Hari Krishna addressing the gathering



Mr. Bala Peddigari explaining the evolution of AI

The session started off with an explanation on Evolution of AI across Applications. We were taught how AI was used in Texts and Codes before 2020 and how currently AI is used in Images for Product design etc, and how AI can be used in Video/Gaming development by the year 2025. Next, we were given an overview of OpenAI technologies. He explained us what OpenAI LP is and its history along with its objective i.e., conducting research in the field of AI with the stated goal of promoting and developing friendly AI in a way that benefits humanity as a whole. One of the major research Project of Generative AI is GPT.

Overview of OpenAI Technologies

Artificial intelligence (AI) research laboratory consisting of for-profit corporation OpenAI LP and its parent company, the non-profit OpenAI Inc.

Founded in San Francisco in late 2015 by Sam Altman, Elon Musk, and others, who collectively pledged US \$1 billion

Conducts research in the field of AI with the stated goal of promoting and developing friendly AI in a way that benefits humanity as a whole

Major Research Focus and Projects

Generative AI → GPT-3 → ChatGPT, Codex, DALL-E → GitHub Copilot, Other Apps → APIs, SDKs, Azure OpenAI Service, Azure Cognitive Services

Driven by Powerful GPT-3 based Natural Language Transformer Models

GPT-3 exclusively licensed to Microsoft, Microsoft to invest 10 B\$ in Open AI in 2023

Overview of OpenAI Technologies

Then we were taught the evolution of GPT. The first one was GPT-1 which performed better than specifically trained supervised state of art models in 9 out of 12 tasks the models were compared on. The second version was GPT-2 which was able to achieve state of the art results on 7 out of 8 tested language modelling datasets in zero shot. The third version was released in 2020 with trained data set of over 570GB and with 175 Billion Parameters. Next came The ChatGPT which optimized language models for Dialogue. It was launched in November 30, 2022. It generates human like text with tone and style.

What ChatGPT Can do?

Industries that rely heavily on high-quality written materials such as reports, proposals, marketing contents, other documents etc. would be benefitted from GLLMs, specially ChatGPT. The key 5 tasks ChatGPT has potential to excel are briefed as below.

- Creating / Generating:** ChatGPT can be given a set of criteria and produce a well-written, plagiarism-free contents like codes, reports, recommendations, Q&A, commentary, design docs etc. based on that. E.g. Marketing function can be transformed using ChatGPT's real-time content creation capability for personalized reach
- Automating:** ChatGPT can automate many generative tasks, functions like creation of BI reports, dashboard and auto schedule for distribution etc., operations like customer service, marketing to avoid repetition through building a human-machine interface by appropriate API calls
- Summarizing:** The amount of abstraction and contextualisation brought forward by ChatGPT into summarization tasks are human-like and can be leveraged across various utilities across domains and industries
- Analyzing:** ChatGPT can analyze the environmental parameters very quickly and recommend the next best action. E.g. with appropriate fine tuning, ChatGPT can become deeply domain-centric that it can begin to take over certain industry and domain functions such as actuarial functions, creative and design processes, manufacturing OT processes etc
- Translating:** Chat GPT is a highly advanced that uses machine learning algorithms to generate human-like text-based outputs based on input from a user. In the context of translation, this technology could potentially be used to create real-time, high-quality translations of spoken or written text

Capabilities of ChatGPT

After this a brief introduction on ChatGPT was given. Its functional Capabilities were explained which include

i) Language Generation: ChatGPT's NLG system is a highly efficient engine to automate generation of any of the following outputs like domain code, summarized reports, recommendations, domain specific Q&A, design docs etc., with accuracy.

ii) Language Processing Modeling: With its 175 billion parameters ChatGPT's language model is one of the extensive LLMs and has an in-depth understanding of the spoken and written word with the embedded context.

iii) Language Translation: ChatGPT has created a significant impact on the translation industry. It is a type of MLP technology that can translate texts from one language to another through learning patterns and relationships.

The workshop ended with a vote of thanks by Mrs. B. Saritha, IEEE CS Student Branch Advisor. She then thanked Mr. Bala Peddigari for sparing his valuable time conducting such an informative webinar and she thanked the attendees for their active participation.

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