

Chat Generative Pre-trained Transformer

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ABOUT

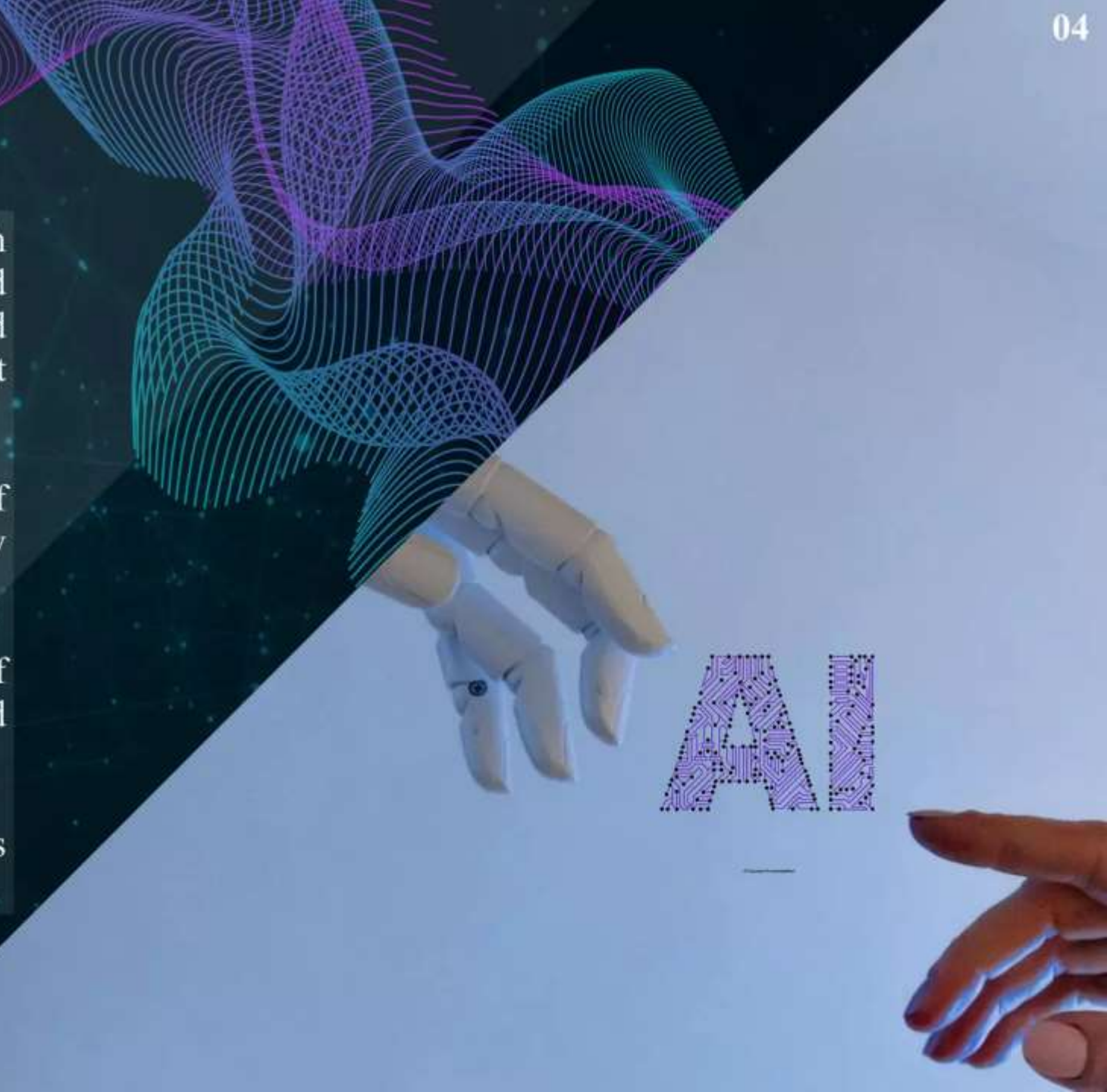
- It is a large language model.
- Developed by OpenAI.
- It is designed to understand and generate natural language text in a variety of contexts, including conversation, writing, and other forms of communication.
- It is an impressive AI technology that is capable of understanding natural language and responding to user queries in a human-like manner.

LANGUAGE MODEL

- A language model is a computer program that can understand, generate, and predict natural language text.
- It works by analysing patterns in language data.
- They are used in a variety of applications, including chatbots, language translation, and speech recognition.

What's OPEN AI?

- OpenAI is an artificial intelligence research laboratory with a team of researchers and engineers dedicated to creating advanced artificial intelligence systems that can benefit society as a whole.
- OpenAI is committed to advancing the field of artificial intelligence and creating new technologies.
- Its researchers are working on a wide range of projects, including developing more advanced natural language processing systems.
- In addition to its research efforts, OpenAI has released several powerful AI tools and systems.



AI

HOW IT WORKS?

- The model uses unsupervised learning to understand the patterns and structures in the data.
- Once the model has been trained, it can generate new text based on the input it receives.
- The output generated by ChatGPT is typically coherent and contextually relevant.

HIGHLIGHTS

| | |
|----------------------|--|
| Owned by | OpenAI |
| Launch Date | 30 November 2022 |
| Userbase Count | Over 100 Million |
| Knowledgebase | Till Sept. 2021 |
| Daily Users | 13 Million |
| Model | Fine-tuned GPT-3.5 (text-DaVinci-003) |
| Dataset Size | 570 GBs; 175 Billion Parameters |
| Queries Per Day | 10 Million Approx. |
| Cloud Infrastructure | Microsoft Azure |
| Forecasted Revenue | \$200 million by the end of 2023, \$1 billion by the end of 2024 |

FEATURES

- Natural Language Processing (NLP): ChatGPT uses advanced natural language processing techniques to understand and generate text in a human-like manner.
- Contextual Understanding: ChatGPT can understand the context of a conversation and generate responses that are relevant to the topic being discussed.
- Multi-Lingual Support: ChatGPT is capable of understanding and generating text in multiple languages, making it useful for communication across different cultures and regions.
- Personalisation: ChatGPT can be personalised to suit individual preferences and needs, making it more effective at generating relevant and useful responses.
- Continuous Learning: ChatGPT is designed to continually learn and improve based on feedback from users, making it more accurate and effective over time.

Timeline

- | | | |
|------|-------------|--|
| 2018 | ChatGPT-1 | A large-scale transformer-based language model designed to generate human-like text. |
| 2019 | ChatGPT-2 | Was designed to generate human-like text. This model was a precursor to ChatGPT. |
| 2020 | ChatGPT-3 | A massive language model with 175 billion parameters, which sets a new standard for text generation and natural language processing. |
| 2021 | ChatGPT-3.5 | Specifically designed for use in conversational AI applications. |
| 2022 | Refinement | OpenAI continues to work on improving and refining ChatGPT, with ongoing research and development efforts focused on enhancing the model's accuracy, scalability, and versatility. |



On March 14, 2023, ChatGPT-4 is released, which is multimodal large language model and has been made publicly available in a limited form via CHATGPT plus.

APPLICATIONS

- Customer Support: ChatGPT can be used to provide instant responses to customer queries and issues.
- Language Translation: ChatGPT can be used to translate text from one language to another, making it useful for communication across different cultures and regions.
- Personal Assistance: ChatGPT can be used to provide users with helpful information and assistance in a variety of contexts.
- Education: ChatGPT can be used as an educational tool, providing students with instant feedback and assistance with their coursework.
- Content Generation: ChatGPT can be used to generate content, such as blog posts or news articles.

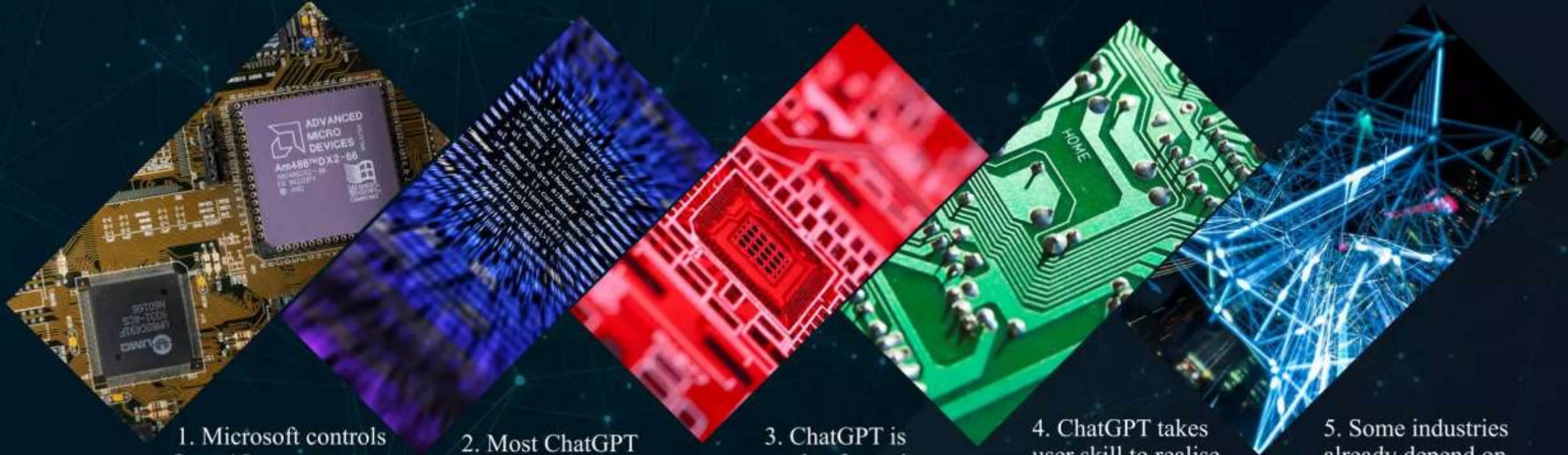
PROS

- **Language Diversity:** ChatGPT has been trained on a wide variety of text data.
- **Contextual Understanding:** ChatGPT can understand the context of the input it receives.
- **Scalability:** ChatGPT can be trained on large amounts of data.

CONS

- **Biased Data:** ChatGPT can be biased if it is trained on data that is not representative of the real world.
- **Lack of Common Sense:** ChatGPT may generate responses that are not logical or reasonable.
- **Inability to Reason:** ChatGPT may not be able to solve complex problems or answer complex questions.

Compulsive Facts About ChatGPT



1. Microsoft controls OpenAI.

2. Most ChatGPT criticism isn't really about ChatGPT.

3. ChatGPT is made of people.

4. ChatGPT takes user skill to realise its full potential.

5. Some industries already depend on ChatGPT.

Collation



BARD AI

BARD AI

Microsoft's Bing Chat

Open AI's Chat GPT

Google's BARD

Type of Platform

Conversational AI Tool

AI-Powered Conversational Internet Search

AI-Powered Conversational Internet Search

Powered By

OpenAI's GPT-3.5 Language Model

Prometheus (Better Version of GPT-3.5)

Google's LaMDA

Data Source

570 GB of textual data from websites, books, and other sources.

Websites & Sources on Bing Search Index

Websites & Sources on Google Search Index

Knowledgebase

Limited up to 2021

Aware of all present & past events

Aware of all present & past events

Availability

Generally Available (Free + Paid)

Currently Available to Selected Users

Currently Available in the United States

Usage

Limited Per Hour

Unlimited

Unlimited

CONCLUSION

In conclusion, ChatGPT is a powerful language model that can generate human-like responses to natural language input. It has many practical applications, including chatbots, virtual assistants, and customer service. ChatGPT's ability to understand context and generate relevant responses makes it an impressive feat of artificial intelligence. However, its limitations, such as potential bias and lack of common sense, must be addressed for responsible use.

Despite its limitations, ChatGPT represents a significant advancement in the field of natural language processing and AI. Its ongoing development and refinement will likely lead to further breakthroughs and innovations in the future.

As researchers continue to push the boundaries of AI, we can expect to see even more advanced language models and applications that will enhance our lives and solve complex problems.

ChatGPT has the potential to transform the way we interact with technology and opens up exciting possibilities for the future of communication between humans and machines.



REFERENCES FROM:

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Thank You

I hope you found this presentation on ChatGPT informative and engaging!
If you have any further questions or would like to learn more about ChatGPT, please don't hesitate to reach out.
Thank you for your time and attention!