

Everything About Chat GPT - Generative AI Bot

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Everything about ChatGPT - Generative AI Bot

01

Comprehensive deck about ChatGPT, an artificial-intelligence enabled chatbot created by OpenAI that has been fine-tuned for generating humanoid responses to user queries

02

Elaborates functioning of ChatGPT as a large language model which is developed and trained by using technologies such as

- Natural Language processing
- Machine learning
- Deep learning
- Computer vision
- Reinforcement learning

03

Highlights the evolution of various ChatGPT model versions by demonstrating their architecture along with the impact of ChatGPT systems over society, workforce and environment

A g e n d a

Showcases the information related to integration of ChatGPT tool with other systems in future

04

Addresses ChatGPT limitations and its alternatives existing in market

05



01 Introduction

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 - ChatGPT: characteristics, application and characteristics
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Major insights associated with ChatGPT platform

This slide provides information regarding the overview of ChatGPT platform which is an ai-based language model that is based on deep learning methodology that uses an artificial neural network for generating humanoid text. It includes details related to its owner, userbase, cloud infrastructure, purpose of ChatGPT, etc.

ChatGPT or generative pre-trained transformer is based on GPT-3.5, a language model that is based on deep learning technology which uses artificial neural networks to generate human-like text



Purpose

Prepares an interactive and noteworthy conversational experience with user that is working on machine learning and natural language processing (NLP)

01	Owned by	OpenAI
02	Headquartered	Pioneer Building in Mission District, San Francisco
03	Launch date	30 Nov 2022
04	Userbase count	> 100MM
05	Knowledge database	Sep 2023
06	Count of daily users	~ 13 MM
07	Model	Fine-tuned GPT-3.5
08	Cloud infrastructure	Microsoft Azure
09	Queries per day	~ 10 MM
10	Dataset size	570 GB 300 Bn words 175 Bn parameters

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Characteristics

Impeccable ability to interact in conversational dialogue format

Auto-aggressive language model based on 'transformer' architecture and operates with deep learning to generate human-like text

Usage of large language models to perform task for predicting next word in series of words

It is used to measure the competency of the chatbot's ability to determine and respond sufficiently to customer concerns

Utilize combination of natural language processing, machine learning, graph theory to imitate automated customer service chat

Training data involves manual pages, information about internet phenomena, programming languages such as bulletin board systems and Python

Reinforcement Learning with Human Feedback (RLHF) is an additional training layer that utilizes human feedback to assist ChatGPT to learn the ability to follow instructions and prepare human-satisfactory customized responses to user queries

In comparison to its predecessor, InstructGPT, ChatGPT ensures to limit harmful and deceitful responses

ChatGPT: Characteristics, application and training insights

This slide provides information regarding key characteristics of the ChatGPT platform that focuses on interacting with users through a conversational dialogue format. It also highlights GPT training insights and the application as a suitable tool for code writing & debugging, language translation, etc.

ChatGPT training insights

- o Training model has 24 layers
- o Training process utilized 1000 NVIDIA V1000 GPUs
- o Model is trained on Microsoft azure AI supercomputing methodologies
- o Training method: reinforcement learning from human feedback (RLHF)



Application

- o Code writing and debugging
- o Preparing articles, news summaries, product descriptions, solutions for problems
- o Language translation
- o Customer service, personal assistances and automated customer support
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Core features and functionalities of ChatGPT platform

This slide provides information regarding major features of ChatGPT platform in terms of adaptability, high quality responses to queries along with functionalities of platform in terms of text generation, dialogue generation, question answering, text completion, etc.

Salient features of ChatGPT

Optimum quality responses to queries

- Generate dynamic and in-depth virtual responses for each task assigned in written form
- Offer better conversational communication
- Add text here

01

Large-scale training

- Platform is trained on huge amount of textual data enabling it to offer wide range of responses
- Competent in completing tasks related to text generation, translation, summarization, etc.

02

Adaptability

- ChatGPT can be modified or fine-tuned to perform certain tasks with specific training
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04

Use of ChatGPT

- Potential in code writing and debugging, capable in writing poems, songs, essays & articles
- Add text here

03

ChatGPT act as a potential language generating model that manages various NLP tasks such as

Text Generation

ChatGPT is competent in generating text that appears to be generated by human. Useful for writing, content creation, etc.

01

Dialogue Generation

Prepare responses in a conversation-like manner. Useful for building chatbots and offering virtual assistance

02

Language Translation

Chat-GPT is fine-tuned for language translation tasks. Useful for chatbot or customer service applications

03

Text Summarization

Fine-tuned for text summarization tasks. Useful for new articles, detailed documents, etc.

04

Text Classification

Model can be modified for text classification task. Useful for sentiment analysis, intent recognition, and additional NLP applications

05

Question Answering

Model can be tweaked for question-answering assignments. Useful for chatbots and customer service applications

06

Text Completion

Model can be modified for text-completion assignment. Useful for predictive text input and additional applications.

07

Functionalities of ChatGPT

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Interesting statistical facts about ChatGPT

This slide highlights the noteworthy facts about the ChatGPT tool in terms of achieving a remarkable userbase in short span of time in comparison to major social media platforms and cost utilized to train the platform along with daily or monthly cost of operating it.

- ChatGPT was launched on Nov 30, 2021
- On Dec 8, 2023, OpenAI announced that ChatGPT had reached **over 1 MM users in just five days of launch**; becoming the fastest app to reach such milestone in comparison to other platforms to reach similar milestones



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Details about ChatGPT developing firm: OpenAI

This slide provides information regarding OpenAI as a parent company that has developed ChatGPT in terms of its co-founders, CEO, offerings, estimated market value, mission statement and key highlights such as its projected revenues, visits over website, etc.

Headquartered	San Francisco, US
Founding year	2015
Parent company	OpenAI LP
Co-Founders	Sam Altman, Elon Musk, others
CEO	Sam Altman (previous president of Y Combinator)
Known for products	<ul style="list-style-type: none">• ChatGPT• DALL-E, a deep learning model that generated images text instructions, known as, Prompts• DALL-E 2• Whisper
Estimated market value	USD 29 Bn

Introduction

- Artificial intelligence research and deployment firm that comprise of non-profit OpenAI Inc. and its for profit subsidiary Open AI Limited Partnership (OpenAI LP)
- Focuses on promoting and building friendly AI by building generative models that align with human values

Mission

- Ensuring artificial general intelligence benefits all humanity

Highlights

OpenAI has more than **667 MM** visits over official website

OpenAI estimated to generate **USD 200 MM** in revenues in 2023 and will generate **USD 1 Bn** by 2024

Microsoft is a partner and investor in OpenAI LP

Microsoft initially invested **USD 1 Bn** in 2019 and had multi-year investment in Jan'23 for **USD 10 Bn**

Both collaboratively developed Azure AI platform