

COMPULSORY TASK 2

NLP Innovative Technology by OpenAI

OpenAI is an American artificial intelligence laboratory involved in conducting AI research with the purpose of developing and promoting friendly AI (Wikipedia, 2023). According to OpenAI (2022), their mission is to ensure that artificial general intelligence benefits all of humanity.

In November 2022, the company launched a powerful language model known as ChatGPT which leverages NLP techniques in generating human-like texts that interact in a conversational manner. ChatGPT which was built upon the same underlying architecture as GPT-3, is a type of Generative Pre-trained Transformer (GPT) that aims at providing a more responsive conversational experience with its users (OpenAI, 2022).

ChatGPT's operation is not based on true understanding or awareness, rather, it is based on patterns learned from the training data. During the training phase, ChatGPT learned from paired dialogue data where conversational exchanges are treated as input-output pairs, and in order to optimize its responses as well as make them more contextually appropriate and engaging, reinforcement learning methods were used in fine-tuning it (OpenAI, n.d.). The dialogue format of ChartGPT enables it to answer follow-up questions, admit its mistakes, challenge incorrect premises, etc. ChatGPT has been deployed by OpenAI in various applications such as customer support chatboxes, virtual assistants, etc.

Despite its advantages, ChartGPT also has its limitations which include a lack of real-time knowledge and reasoning capabilities, the provision of incorrect or nonsense answers, responses to harmful or biased instructions, provision of different answers to slightly rephrased questions (OpenAI, 2022).

REFERENCES

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