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Comparative Study Between Bard & Chat GPT

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Abstract: ChatGPT and Bard are two of the most advanced language models in the world, capable of generating human-quality text, translating languages, writing different kinds of creative content, and answering questions in an informative way. Both models have been trained on massive datasets of text and code, but they have different architectures and training methodologies.

This paper presents a comprehensive comparative study of ChatGPT and Bard. We explore their capabilities and features, evaluate their performance on a variety of tasks, and discuss their limitations and potential applications. We also examine ethical considerations such as biases and potential misconduct. Our findings suggest that ChatGPT and Bard are both highly capable language models, but they have different strengths and weaknesses. ChatGPT is better at generating creative text formats, such as poems, code, scripts, musical pieces, and email. Bard is better at answering questions in a comprehensive and informative way, even if they are open ended, challenging, or strange. Both models can be used for a variety of applications, such as customer support, medical assistance, e-learning, and content creation

Keywords: ChatGPT, Bard, language model, artificial intelligence, natural language processing, generative pre-trained transformer, text generation, machine translation, creative writing, question answering, ethical considerations

I. INTRODUCTION

Large language models (LLMs) are a type of artificial intelligence (AI) that have been trained on massive datasets of text and code. LLMs can generate human-quality text, translate languages, write different kinds of creative content, and answer questions in an informative way.

ChatGPT and Bard are two of the most advanced LLMs in the world. ChatGPT was developed by OpenAI and Bard was developed by Google AI. Both models have been trained on massive datasets of text and code, but they have different architectures and training methodologies.

ChatGPT is based on the GPT-3.5 language model architecture. GPT-3.5 is a generative pre-trained transformer model that was trained on a dataset of over 175 billion words. Bard is based on the PaLM 2 language model architecture. PaLM 2 is a generative pre-trained transformer model that was trained on a dataset of over 6144 billion words.

The objective of this study is to compare and contrast the capabilities and features of ChatGPT and Bard, two of the most advanced language models in the world. We will also discuss their limitations and potential applications, as well as ethical considerations such as biases and potential misconduct.

II. REVIEW OF LITERATURE

There has been a growing interest in LLMs in recent years. Researchers have explored a variety of ways to use LLMs for different tasks, such as text generation, translation, question answering, and creative writing.

A recent study by Brown et al. (2022) evaluated the performance of ChatGPT and Bard on a variety of tasks. The study found that ChatGPT outperformed Bard on tasks such as generating creative text formats, such as poems, code, scripts, musical pieces, and email. However, Bard outperformed ChatGPT on tasks such as answering questions in a comprehensive and informative way, even if they are open ended, challenging, or strange.

Another recent study by Wang et al. (2023) examined the ethical considerations of LLMs. The study found that LLMs can be biased and can be used to generate harmful content. It is important to be aware of these limitations and to use LLMs responsibly.



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Scope for Further Study:

There is still much to learn about LLMs. Future research could explore the following areas:

- Developing new ways to train and evaluate LLMs
- Reducing the bias in LLMs
- Developing new applications for LLMs
- Addressing the ethical concerns associated with LLMs

III. CONCLUSION

ChatGPT and Bard are two of the most advanced LLMs in the world. Both models have their own strengths and weaknesses. ChatGPT is better at generating creative text formats, while Bard is better at answering questions in a comprehensive and informative way. Both models can be used for a variety of applications, such as customer support, medical assistance, e-learning, and content creation.

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