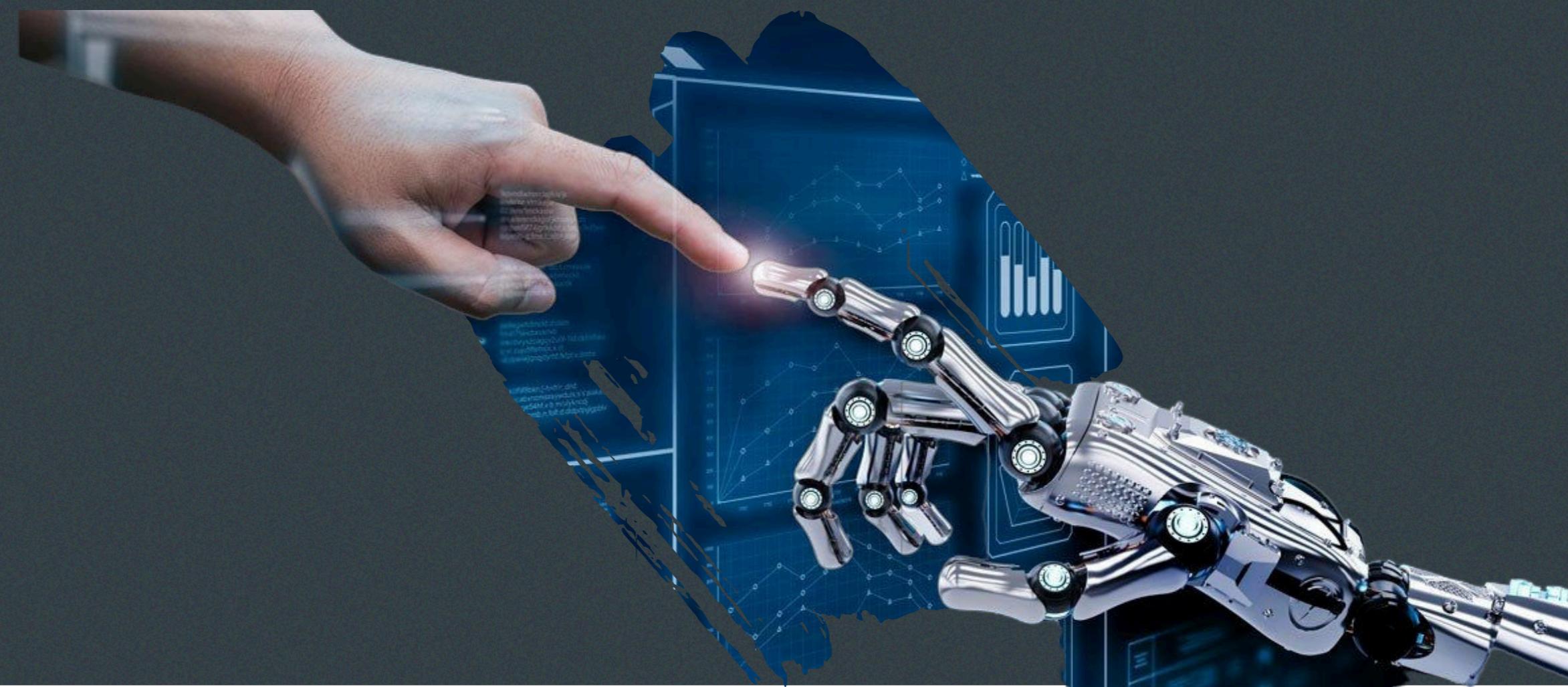


Text Generation



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Introduction

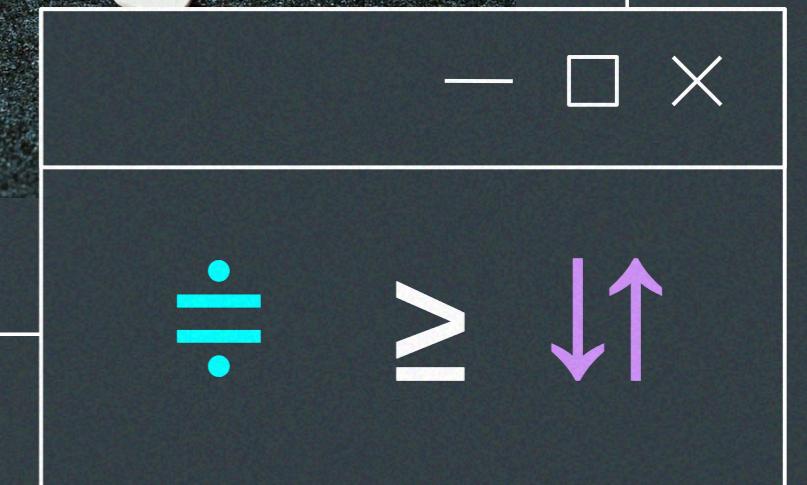
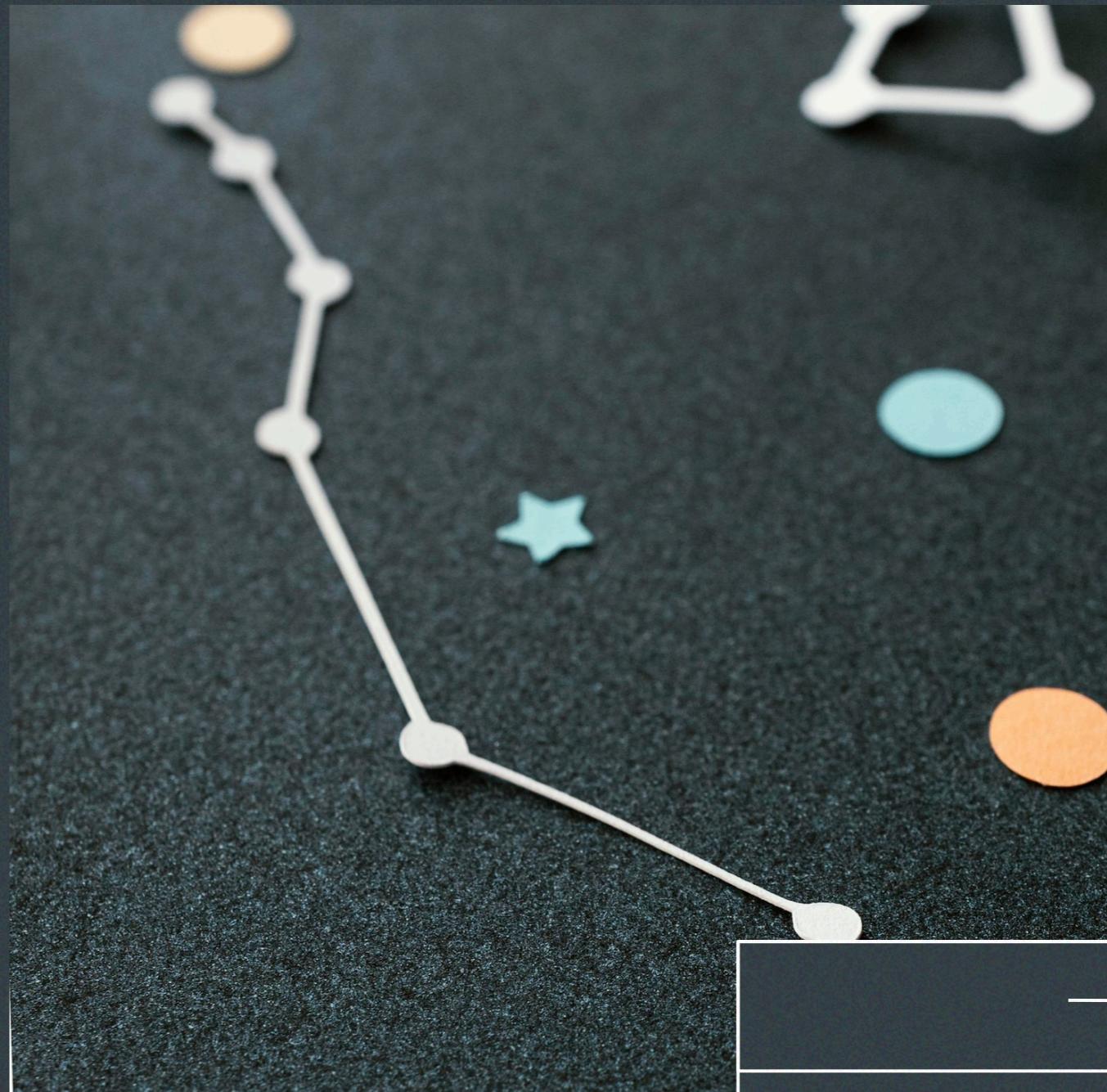
Importance of generating coherent and contextually relevant text for various applications.
enabling machines to produce human-like text.



Model Setup and Initialization

Explanation of model and tokenizer initialization using GPT-2 and Hugging Face's transformers library.

Discussion on the significance of pre-trained models in text generation tasks.



Data Preparation and Input Processing

Overview of data preparation steps, including tokenization and input processing.

Importance of structured input data for efficient text generation.



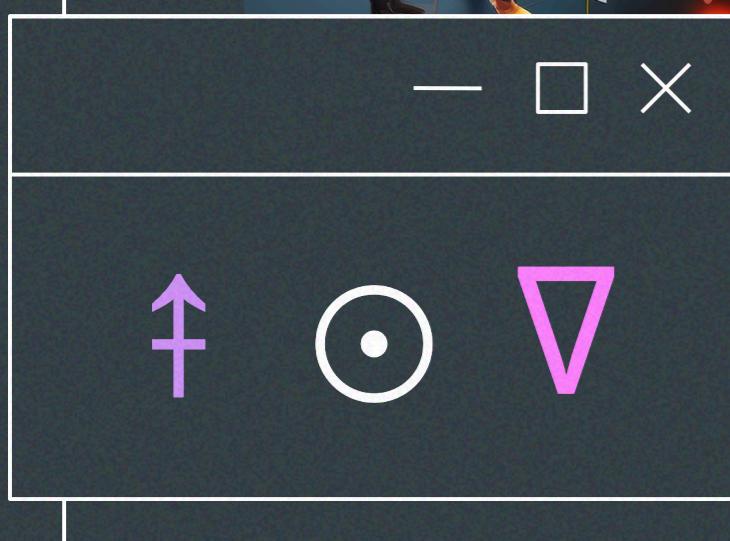
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Text Generation Strategies



Explanation of text generation strategies: beam search and nucleus sampling.

Comparison of strategies in terms of coherence, diversity, and computational complexity.



Demonstrating Text Generation

Demonstration of text generation from predefined inputs using beam search.

Showcase of diverse and contextually relevant text outputs with nucleus sampling.



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Advantage and Disadvantages

Advantages:

GPT-2 produces natural language output, offering versatility and ease of use for various applications

Disadvantages:

Concerns include ethical implications, biases, and the requirement for significant computational resources





Conclusion

GPT-2's natural language generation capabilities offer vast potential, yet ethical concerns and resource demands underscore the need for responsible usage and further research.



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Thanks!

Do you have any questions?

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Marwan
Sameer
Mohamed

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