

INTRODUCTION TO GENERATIVE AI BY GOOGLE

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Outline

About Me

Yogesh Haribhau Kulkarni

Bio:

- ▶ 20+ years in CAD/Engineering software development
- ▶ Got Bachelors, Masters and Doctoral degrees in Mechanical Engineering (specialization: Geometric Modeling Algorithms).
- ▶ Currently doing Coaching in fields such as Data Science, Artificial Intelligence Machine-Deep Learning (ML/DL) and Natural Language Processing (NLP).
- ▶ Feel free to follow me at:
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Generative AI

Introduction

- ▶ Generative AI is a rapidly growing technology that uses machine learning algorithms to generate new data.
- ▶ Google is one of the leading companies in the field of generative AI, with a range of tools and frameworks for developers and businesses.
- ▶ This presentation will provide an overview of the concepts, framework, applications, and conclusion of generative AI by Google.

Concepts

- ▶ Generative AI is a type of machine learning that involves training algorithms to generate new data that is similar to existing data.
- ▶ Google's generative AI tools are based on deep learning algorithms, which use neural networks to learn patterns in data and generate new data.
- ▶ Some of the key concepts in generative AI include autoencoders, generative adversarial networks (GANs), and variational autoencoders (VAEs).

Framework

- ▶ Google offers a range of frameworks and tools for developers and businesses to build generative AI models.
- ▶ Some of the key frameworks include TensorFlow, Keras, and PyTorch.
- ▶ Google also offers pre-trained models and APIs for developers to use in their applications, such as Cloud AutoML and Vertex AI.

Applications

- ▶ Generative AI has a wide range of applications, from image and video generation to natural language processing and music composition.
- ▶ Google's generative AI tools are used in a variety of industries, including healthcare, finance, and entertainment.
- ▶ Some of the specific applications of generative AI by Google include Gmail, Docs, Slides, Sheets, and more.

Conclusion

- ▶ Generative AI by Google is a powerful technology that has the potential to revolutionize many industries.
- ▶ With its range of frameworks, tools, and pre-trained models, Google is well-positioned to be a leader in the field of generative AI.
- ▶ As the technology continues to evolve, we can expect to see even more innovative applications of generative AI by Google and other companies.

Thanks ...

- ▶ Search "**Yogesh Haribhau Kulkarni**" on Google and follow me on LinkedIn and Medium
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