



Generative AI

Instructor: Davit Abgaryan, PhD



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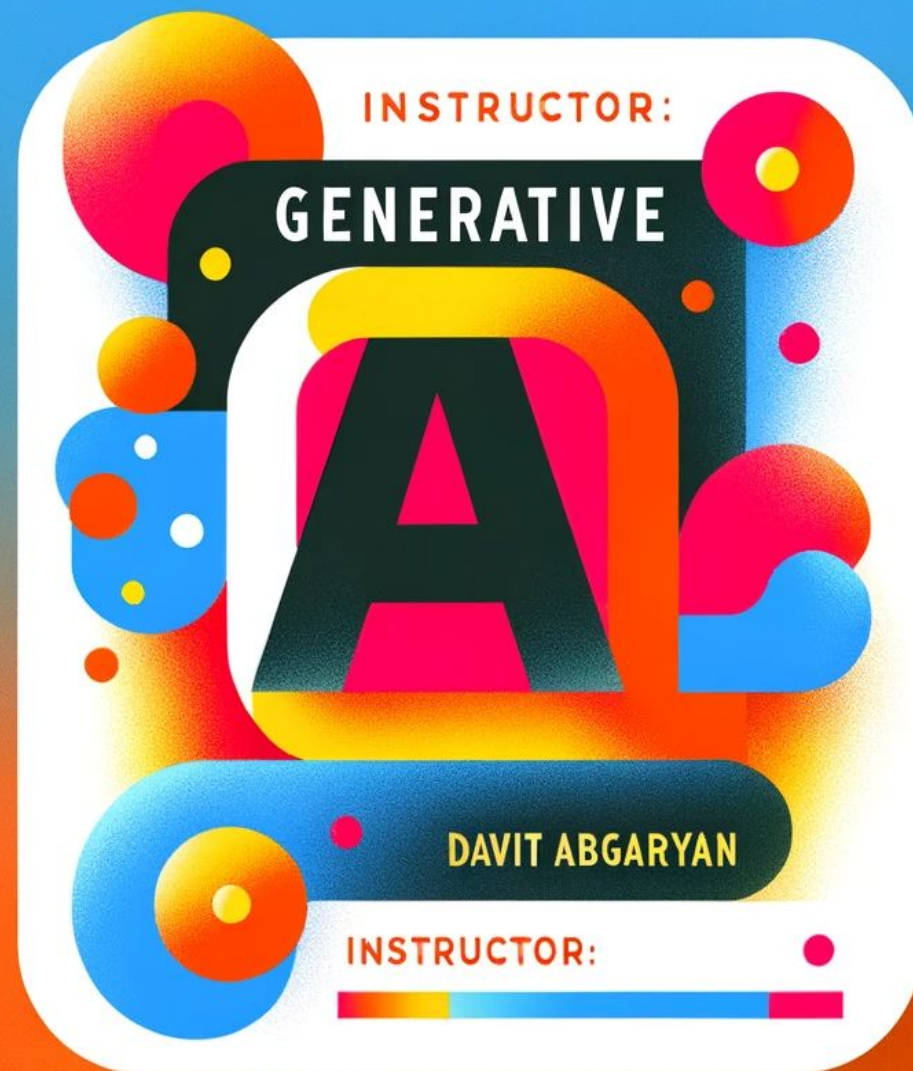
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GENERATIVE AI

INSTRUCTOR: DAVIT ABGARYAN

About Me

Let's ask ChatGPT

Let's dive into GenAI

Generative AI

Definition: An artificial intelligence capable of creating new content.

Types of content: Includes text, images, audio, video, music, etc.

Learning process: Models learn patterns and structures from input training data.

Output: Generate new data with characteristics similar to the training data

Generative AI VC Discriminative AI

- Shift from cognitive to creative capabilities.
- Moves beyond just recognizing, analyzing, or classifying existing content.

Artificial General Intelligence

- **Definition:** Autonomous system surpassing human capabilities in most economically valuable tasks.
- **Primary goal** for AI research and companies like OpenAI, DeepMind, and Anthropic.
- **Varied predictions:** From a few years to over a century.
- **Controversy:** AGI as a potential threat to humanity.

GenAI Modalities*

TEXT

VIDEO

SPEECH-TO-TEXT

IMAGE

AUDIO

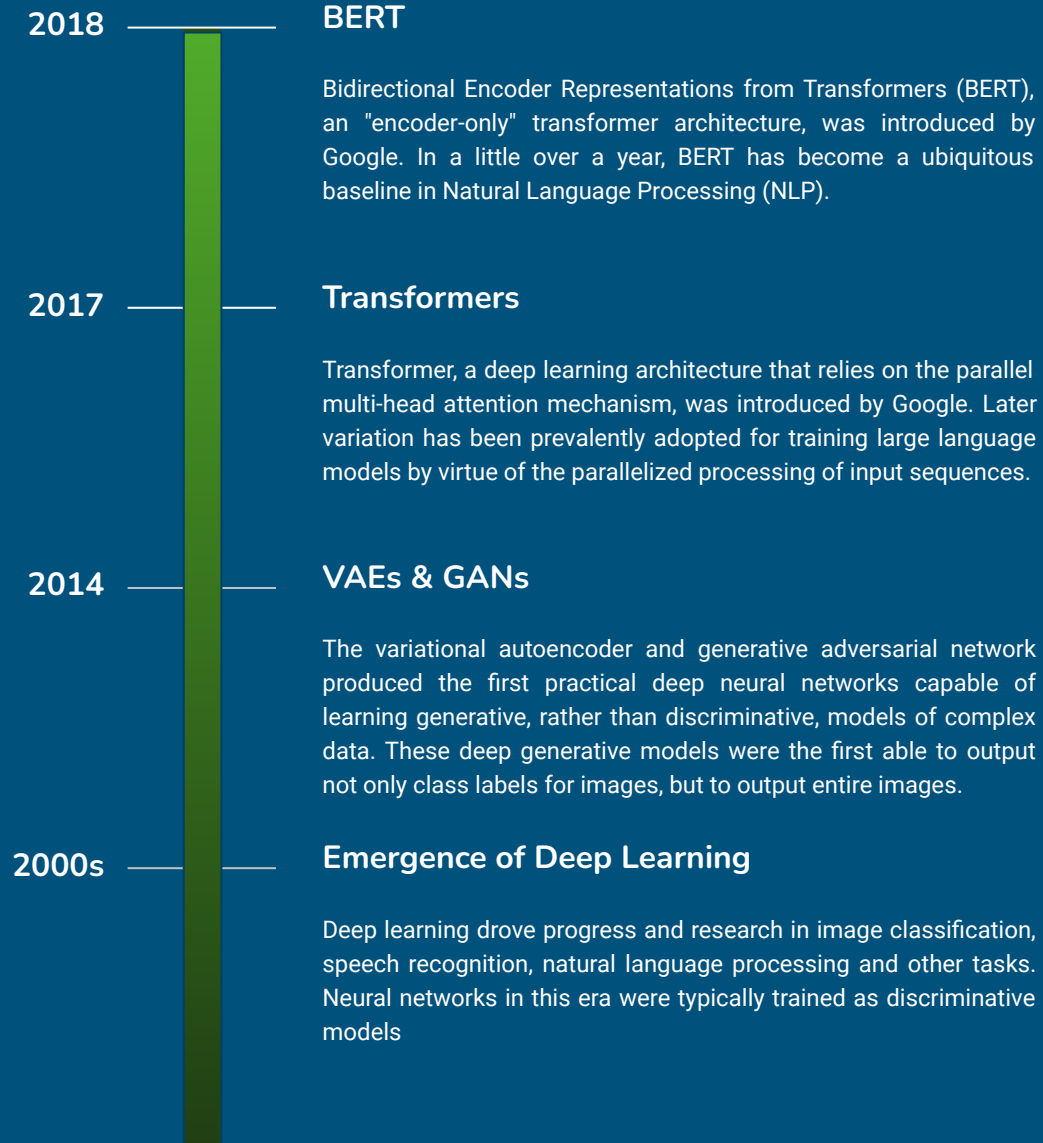
CODE

ROBOTICS

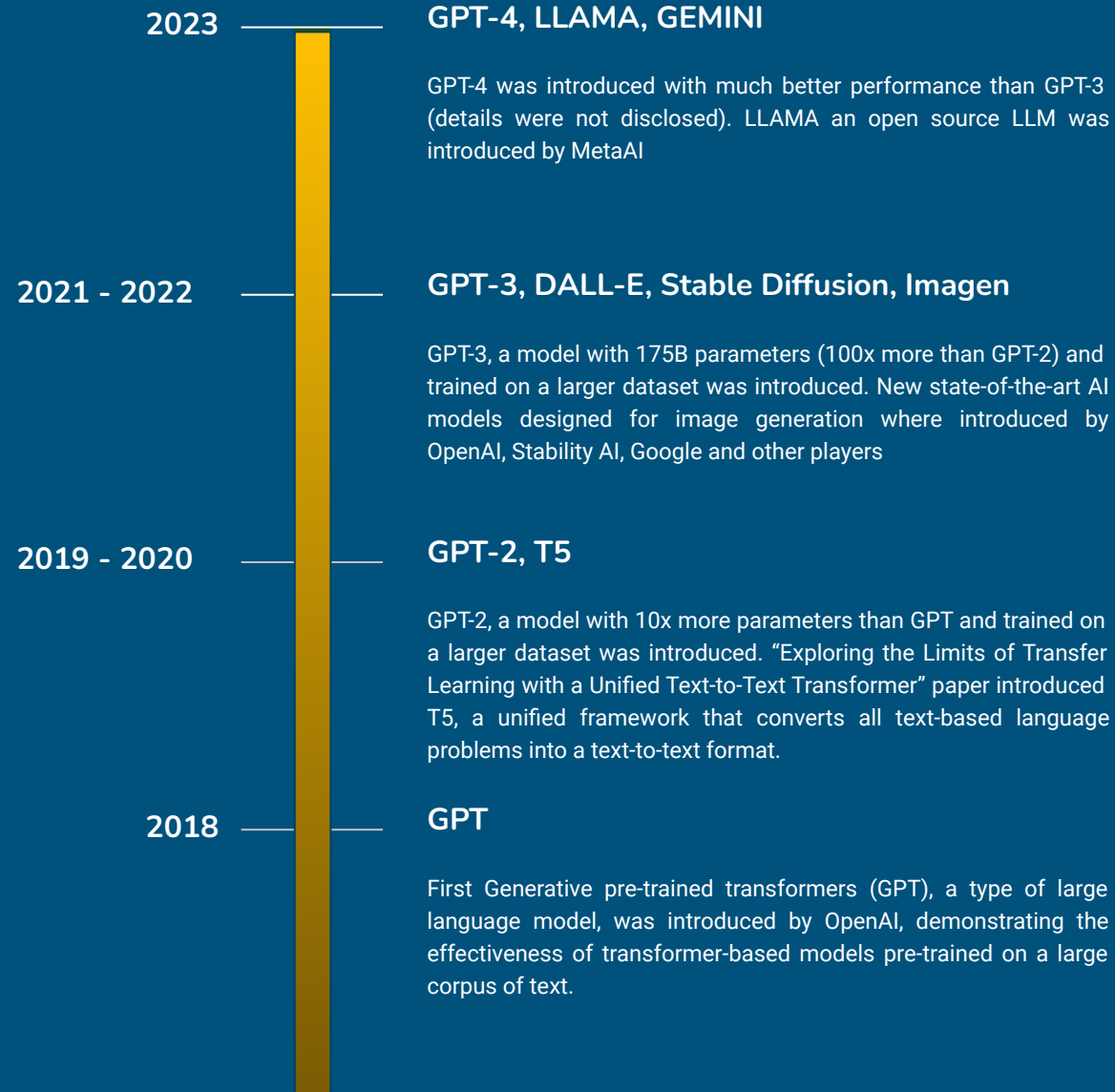
MUSIC

MOLECULES

History of GenAI



History of GenAI



Ethical Considerations & Challenges

- Undistinguishable GenAI-generated text
- Realistic but fake content creation
- Non-consensual use of personal data in model training
- Bias and discrimination based on race, gender, or other factors
- Undefined originality when AI replicate styles or content
- Issues surrounding the ownership of AI-generated content
- Lack of clear legal frameworks, liability and accountability for content generated by AI

Thank You