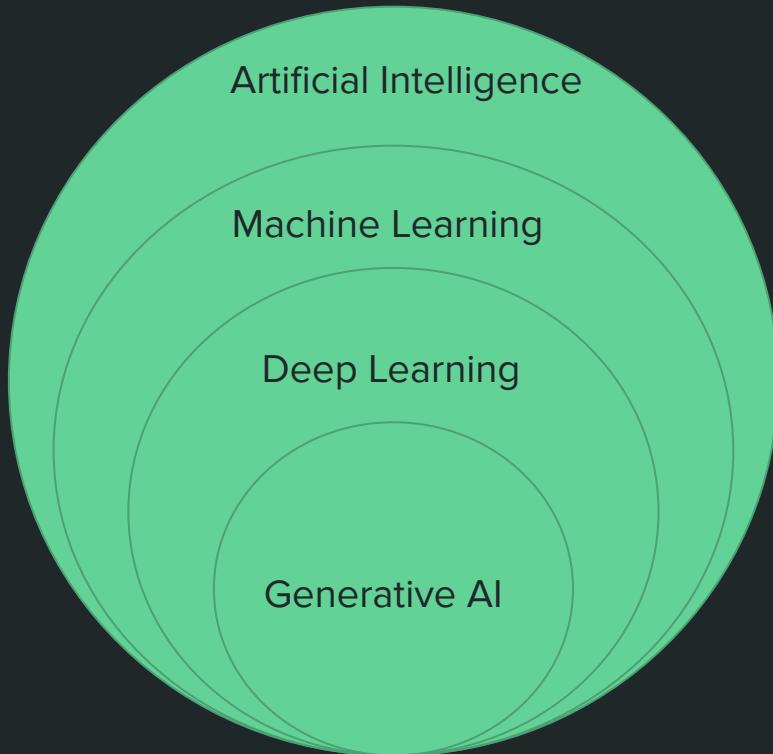


Section 2: Generative AI Foundation

Understanding the Core Concepts 🧠

2.1. AI vs ML vs DL vs Generative AI

Understanding AI Hierarchy



🤖 Artificial Intelligence (AI)

- The science of making machines act smart, like humans.

📊 Machine Learning (ML)

- AI that learns patterns from data to make predictions.

🧠 Deep Learning (DL)

- ML using multi-layered neural networks for complex tasks.

🎨 Generative AI (GenAI)

- AI that creates new content like text, images, and music.

Real-World Examples

Artificial Intelligence (AI)

- Siri
- Alexa
- Chess Bot



Machine Learning (ML)

- Email Spam Filter
- Netflix Recommendations
- Credit Card Fraud Detection



Deep Learning (DL)

- Face ID Unlock
- Speech-to-text
- Image Classification



Generative AI (GenAI)

- ChatGPT
- GitHub Copilot
- DALL-E

