

## Artificial Intelligence and Machine Learning 1

Artificial Intelligence (AI) is a field of computer science that aims to create 2 intelligent machines that work and react like humans. Machine Learning (ML) is a subset of AI that provides systems the ability to automatically learn and improve from experience without being explicitly programmed.

Deep Learning is a subset of machine learning that uses neural networks with 3 multiple layers to model and understand complex patterns in data. It has been particularly successful in areas like image recognition, natural language processing, and speech recognition.

Applications of AI include: 4

- Autonomous vehicles
- Medical diagnosis
- Financial trading
- Recommendation systems
- Virtual assistants