Overview of Artificial Intelligence (AI)

Artificial Intelligence (AI) is a branch of computer science focused on creating systems capable of performing tasks that typically require human intelligence. These tasks include learning, reasoning, problem-solving, perception, and language understanding. AI can be broadly categorized into two types: **Narrow AI** and **General AI**.

- **Narrow AI:** Also known as weak AI, this type of AI is designed and trained for a specific task. Examples include virtual personal assistants, facial recognition systems, and recommendation algorithms.
- **General AI:** Also known as strong AI, this type of AI possesses the ability to understand, learn, and apply knowledge in a way that is indistinguishable from human intelligence. This level of AI remains theoretical and has not yet been realized.

Applications of AI

AI has a wide range of applications across various industries, including:

- **Healthcare:** AI is used for diagnostics, personalized medicine, and robotic surgery.
- **Finance:** AI powers algorithmic trading, fraud detection, and customer service chatbots.
- **Transportation:** Autonomous vehicles and traffic management systems rely on AI.
- **Entertainment:** AI helps in content recommendation, game development, and special effects.
- **Education:** AI supports personalized learning, grading systems, and administrative tasks.