Introduction to Artificial Intelligence (AI):

Artificial Intelligence (AI) is the simulation of human intelligence processes by machines, especially computer systems.

AI applications include natural language processing, machine learning, computer vision, and robotics.

Machine Learning (ML):

Machine Learning is a subset of AI that focuses on developing algorithms that allow computers to learn from and make predictions or decisions based on data.

Supervised learning, unsupervised learning, and reinforcement learning are common types of ML.

Natural Language Processing (NLP):

NLP is a field of AI that gives machines the ability to read, understand, and derive meaning from human languages. Applications include chatbots, translation, and sentiment analysis.

Robotics:

Robotics integrates AI to create intelligent machines that can perform tasks in the real world, from industrial automation to healthcare assistance.