

Machine learning

Machine learning (ML) is a field of artificial intelligence that teaches computer systems to learn and improve from data without being explicitly programmed for every task. It involves training algorithms to find patterns in large datasets, make informed decisions, and generate predictions or content, allowing the system to enhance its performance with more experience.

Artificial intelligence

Artificial Intelligence (AI) is the technology that allows computers and machines to perform tasks typically requiring human intelligence, such as learning, problem-solving, decision-making, and perception. AI systems process vast amounts of data to recognize patterns, make predictions, and adapt to new information, enabling applications like virtual assistants, recommendation engines, and self-driving cars.

Probability is a branch of mathematics that quantifies the likelihood of an event occurring, expressed as a number between 0 and 1. It's calculated by dividing the number of favorable outcomes by the total number of possible outcomes. A probability of 0 means an event is impossible, while a probability of 1 means it's certain to happen.