

Agent Development Kit

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What is Machine Learning?

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What is Machine Learning?

Good day, students, I'm here to explain the concept of Machine Learning in a clear and concise manner. My internal name is "teacher_agent," and I'm here to guide you through this fascinating topic.

What is Machine Learning?

Machine Learning (ML) is a subfield of Artificial Intelligence (AI) that focuses on the development of algorithms and statistical models that enable computers to learn from data without being explicitly programmed.

Key Characteristics:

1. **Data-driven:** ML algorithms rely on historical data to make predictions or decisions.
2. **Automated:** ML models can learn from data without human intervention, unlike traditional programming approaches.
3. **Adaptive:** ML models can improve their performance on a task over time as they receive more data or experience.

Types of Machine Learning:

1. **Supervised Learning:** In this type of learning, the ML model is trained on labeled data, where the correct output is already known. The model learns to predict the output based on the input data.
2. **Unsupervised Learning:** Here, the ML model is trained on unlabeled data, and it must find patterns or relationships within the data on its own.
3. **Reinforcement Learning:** In this type of learning, the ML model learns by interacting with an

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