

The Art of Analytics

EXPLORING VALUE FROM DATA

Machine Learning

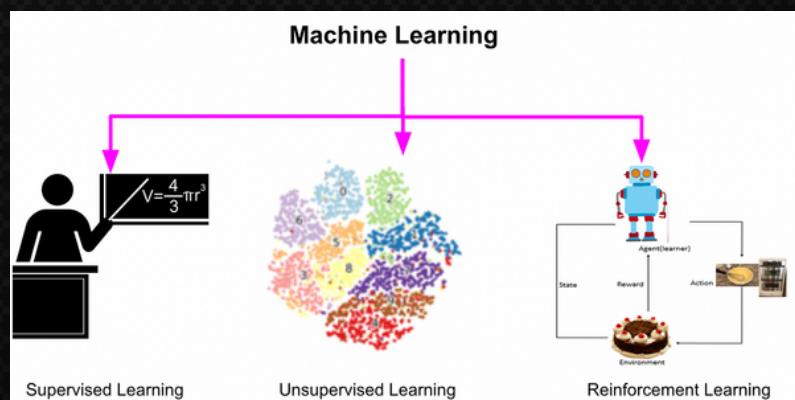
It is a field of artificial intelligence that focuses on developing algorithms and models that enable computers to learn from data and make predictions or decisions without being explicitly programmed.



Supervised Learning: In supervised learning, the algorithm learns from labeled data where the input and output pairs are provided. It aims to predict the output for new, unseen inputs.

Unsupervised Learning: Unsupervised learning deals with unlabeled data, where the algorithm discovers patterns, structures, or relationships within the data without any predefined output.

Reinforcement Learning: Reinforcement learning involves an agent learning to make decisions in an environment to maximize rewards. It learns through trial and error, receiving feedback in the form of rewards or penalties.



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Machine Learning Workflow



Problem Formulation and Data Collection

Clearly defining the problem and the desired outcome



Data Preprocessing and Feature Engineering

Cleaning, transforming, and normalizing the data to ensure its quality and suitability for training



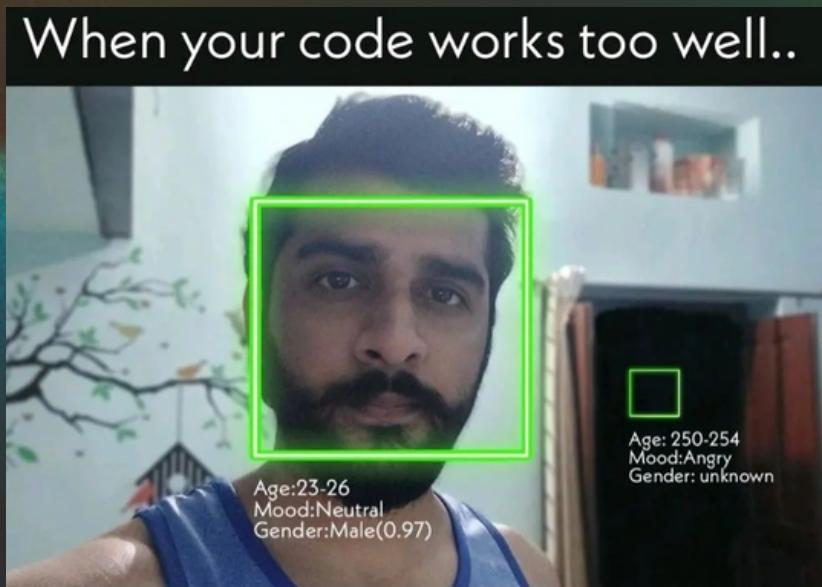
Model Selection and Evaluation

Choosing the appropriate algorithm or model that suits the problem and the available data



Model Training and Testing

Feeding the labeled data to the selected algorithm to learn the underlying patterns



APPLICATION

**HEALTHCARE AND
MEDICAL
DIAGNOSTICS**

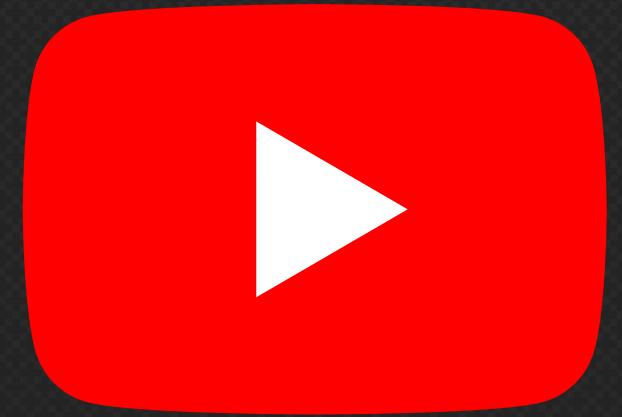
**FINANCE AND STOCK
MARKET ANALYSIS**

**RETAIL AND
RECOMMENDER SYSTEMS**

**NATURAL LANGUAGE
PROCESSING**

**CHATBOTS, SENTIMENT
ANALYSIS, CHATGPT**

COMPUTER VISION



Watch Me

**Supervised,
Unsupervised,
Reinforcement ML**

Thank You

IN CASE OF ANY DOUBT, FEEL FREE TO ASK ME