Machine Learning Basics Study Guide

1. What is Machine Learning?

Machine Learning (ML) is a subset of artificial intelligence (AI) that allows systems to automatically learn and improve from experience without being explicitly programmed. It involves training a model on data to make predictions or decisions based on new, unseen data.

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2. Types of Machine Learning

There are three main types of machine learning:

a. Supervised Learning:

- **Definition**: The model is trained on labeled data, meaning the input data comes with known output labels.
- **Objective**: Learn the mapping between input and output.
- **Example**: Spam email classification (emails are labeled as "spam" or "not spam").
- **Algorithms**: Linear Regression, Logistic Regression, Support Vector Machines (SVM), k-Nearest Neighbors (k-NN), Decision Trees, Random Forests.

b. Unsupervised Learning:

- **Definition**: The model is trained on unlabeled data, and the system tries to find hidden patterns in the data.
- **Objective**: Discover the structure of the data, such as grouping or clustering.
- **Example**: Customer segmentation in marketing (grouping customers based on purchasing behavior).
- **Algorithms**: K-means clustering, Hierarchical Clustering, Principal Component Analysis (PCA).

c. Reinforcement Learning:

- **Definition**: The model learns by interacting with an environment and receiving feedback in the form of rewards or punishments.
- **Objective**: Maximize the cumulative reward over time.
- **Example**: Training a robot to walk or playing video games.
- **Algorithms**: Q-Learning, Deep Q-Networks (DQN), Policy Gradient Methods.

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3. Key Concepts

a. Features and Labels:

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