**1. What is ML (Machine Learning)?**

Machine Learning (ML) is a branch of artificial intelligence (AI) that enables systems to learn from data and improve their performance over time without being explicitly programmed. ML algorithms use statistical techniques to identify patterns in data and make predictions or decisions based on it.

**2. What is Supervised ML Algorithm?**

Supervised Machine Learning is a type of ML where the model is trained on a labelled dataset, meaning that each training example is paired with an output label. The algorithm learns to map inputs to the correct output using this data. It is typically used for tasks like classification and regression.

**3. What is Regression and Classification?**

* **Regression:** Regression is a type of supervised learning used to predict continuous numerical values. For example, predicting the price of a house based on its features.
* **Classification:** Classification is another type of supervised learning where the output is a category or class label. It can be **binary classification**, where there are only two possible outcomes (e.g., spam or not spam), or **multiclass classification**, where there are more than two classes (e.g., classifying types of fruits). For example, classifying emails as spam or not spam.