**[Que-50.9] - What is the difference between a classification and a regression problem?**

Classification and regression are two types of supervised learning problems:

1. **Classification**:
   * Predicts discrete labels (categories).
   * Output: Categorical variable (e.g., spam or not spam).
   * Examples: Email spam detection, image classification.
   * Algorithms: Logistic Regression, Decision Trees, SVM, K-NN.
   * Evaluation Metrics: Accuracy, Precision, Recall, F1 Score.
2. **Regression**:
   * Predicts continuous values.
   * Output: Continuous variable (e.g., house prices).
   * Examples: House price prediction, temperature forecasting.
   * Algorithms: Linear Regression, Decision Trees (Regression), SVR.
   * Evaluation Metrics: Mean Absolute Error, Mean Squared Error, R-squared.