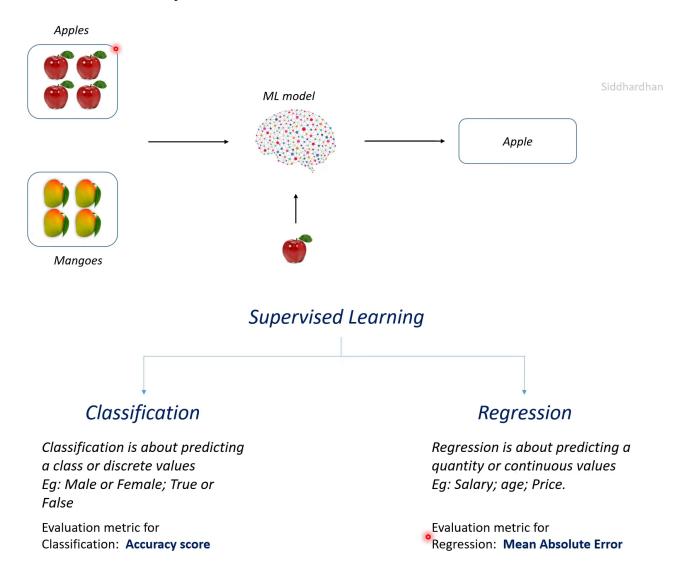
Supervised and unsupervised model

In Supervised Learning, the Machine Learning algorithm learns from Labelled Data



Accuracy score and mean absolute error explained in Model Evaluation

Supervised Learning Models

Classification:

- 1. Logistic Regression
- 2. Support Vector Machine Classifier
- 3. Decision Tree
- 4. K-Nearest Neighbors
- 5. Random Forest
- 6. Naïve Bayes Classifier

Regression:

- 1. Linear Regression
- 2. Lasso Regression
- 3. Polynomial Regression

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- 4. Support Vector Machine Regressor
- 5. Random Forest Regressor
- 6. Bayesian Linear Regressor

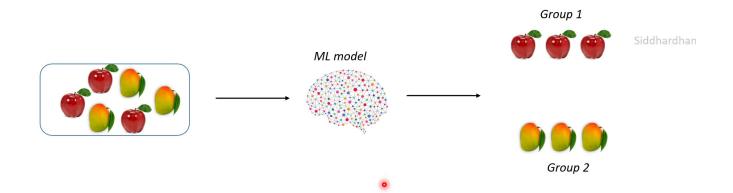
classification ex: dog or cat, true or false

regression ex: salary

Unsupervised

Unsupervised Learning

In Unsupervised Learning, the Machine Learning algorithm learns from **Unlabelled Data**



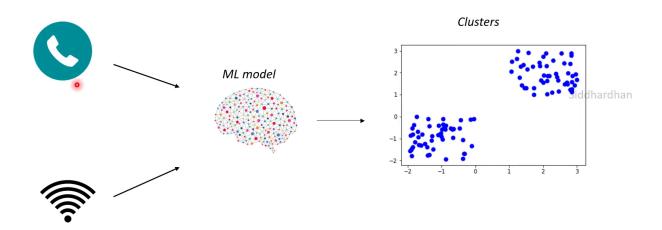
Unsupervised Learning



Clustering is an unsupervised task which involves grouping the similar data points.

Association is an unsupervised task that is used to find important relationship between data points •

Clustering



Association

Customer 1

Customer 2

Customer 3







Siddhardhar

- Bread
- Milk
- Fruits
- wheat

- Bread
- Milk
- Rice
- Butter

Now, when customer 3 goes and buys bread, it is highly likely that he will also buy milk.

Unsupervised Learning Models

- 1. K-Means Clustering
- 2. Hierarchical Clustering
- 3. Principal Component Analysis (PCA)
- 4. Apriori
- 5. Eclat