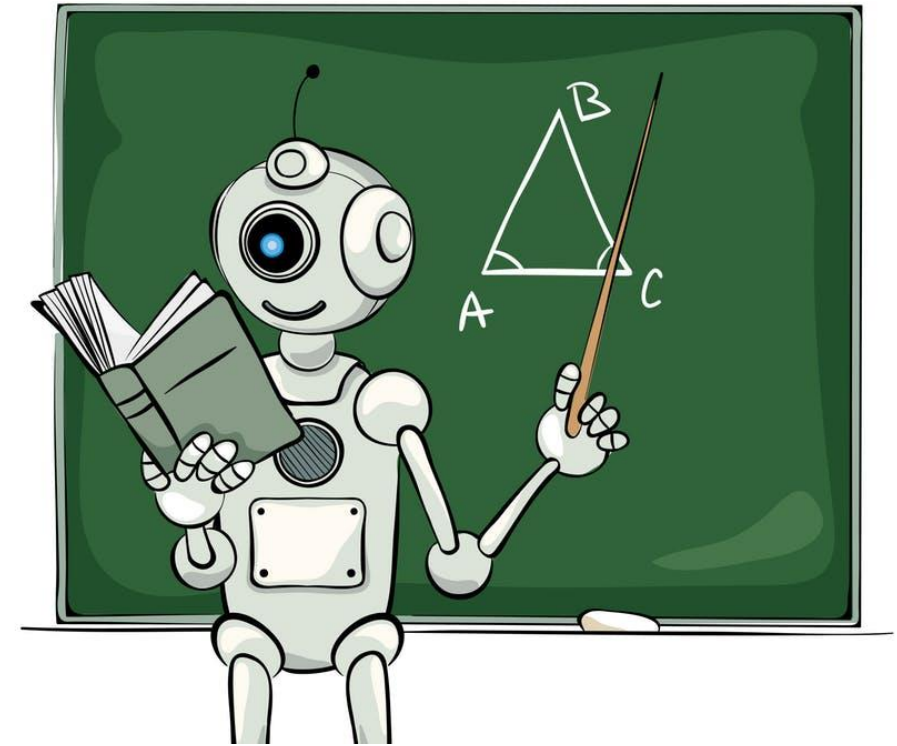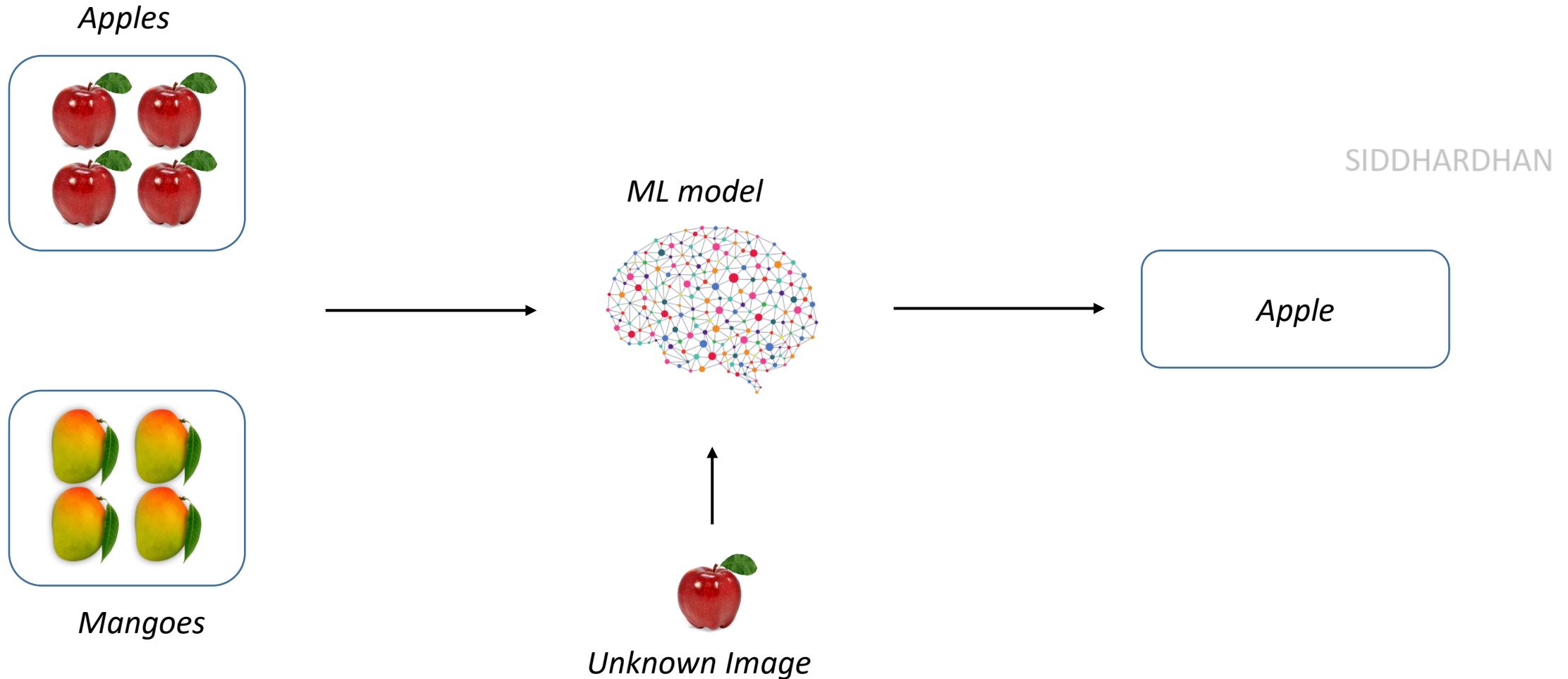**Siddhardhan**

Supervised Learning: Classification & Regression

Supervised Learning

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

Apples

ML model

Apple

Mangoes

Unknown Image

Types of Supervised Learning

Supervised Learning

Classification

Classification is about predicting a class or discrete values
Eg: Male or Female; True or False

Regression

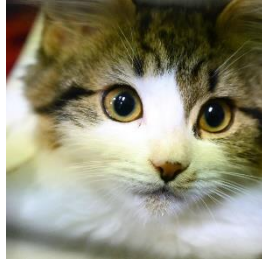Regression is about predicting a quantity or continuous values
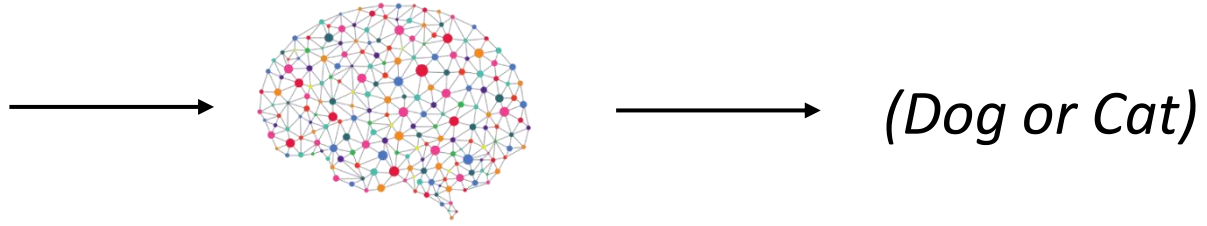Eg: Salary; age; Price.

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Types of Supervised Learning
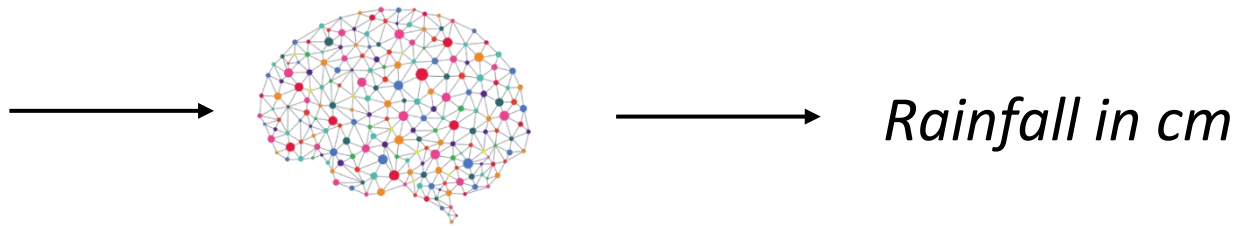
Classification:

Dog   Cat   →   →   (Dog or Cat)

Regression:

Temperature   Rainfall in cm   →   →   Rainfall in cm

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Algorithms

Classification:

1. *Decision Tree Classification*
2. *Random Forest Classification*
3. *K-nearest Neighbor*
4. *Logistic Regression*

Regression:

1. *Polynomial Regression*
2. *Support Vector Machines Regressor*