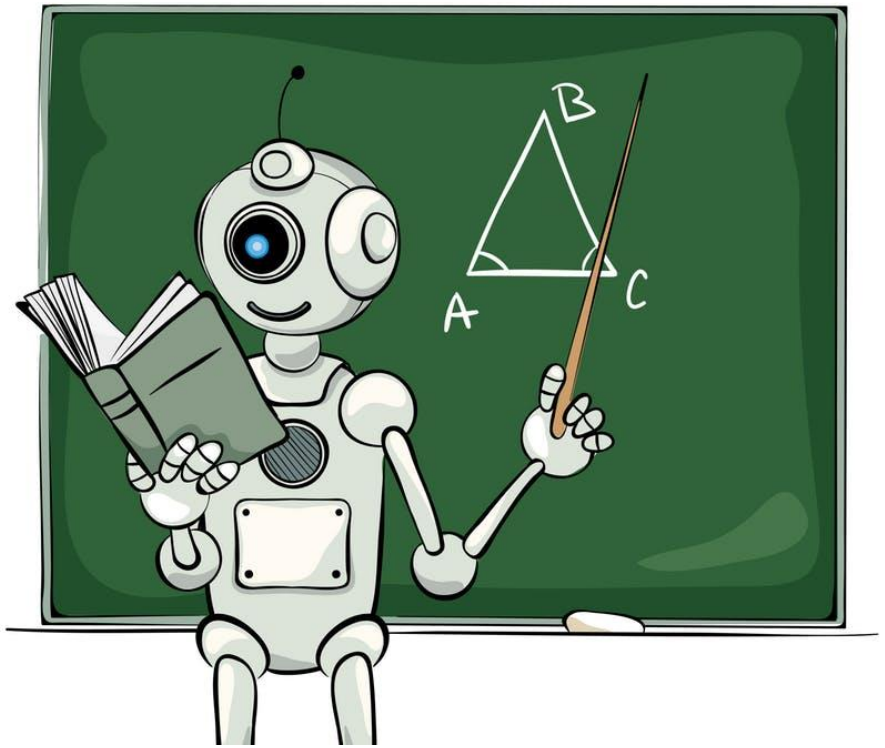
Siddhardhan

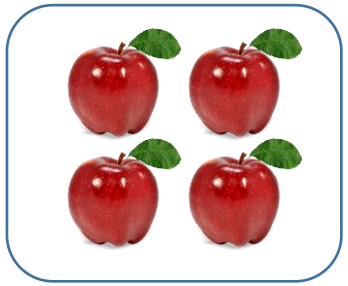
Supervised Learning Models

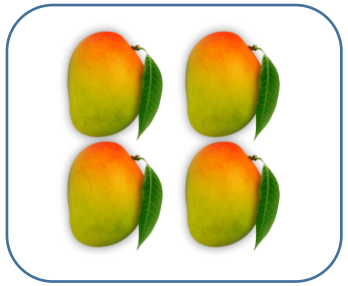


Supervised Learning

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

Apples





Mangoes

ML model

Apple

Unknown Image

Types of Supervised Learning

Supervised Learning

Classification

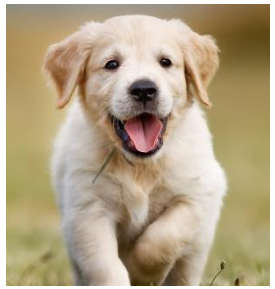
Classification is about predicting a class or discrete values
Eg: Male or Female; True or False

Regression

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

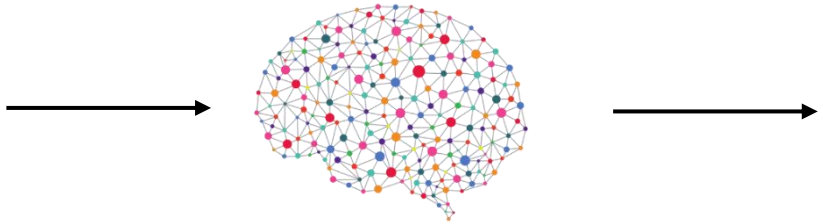
Types of Supervised Learning

Classification:



Dog

Cat

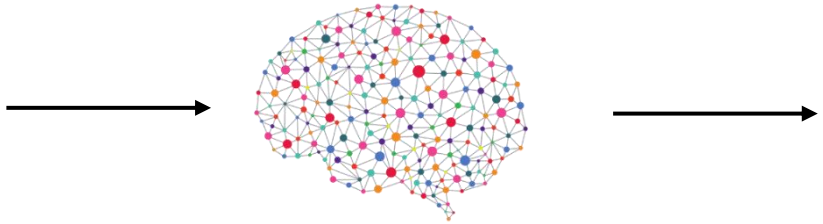


(Dog or Cat)

Regression:

Temperature

Rainfall in cm



Rainfall in cm

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