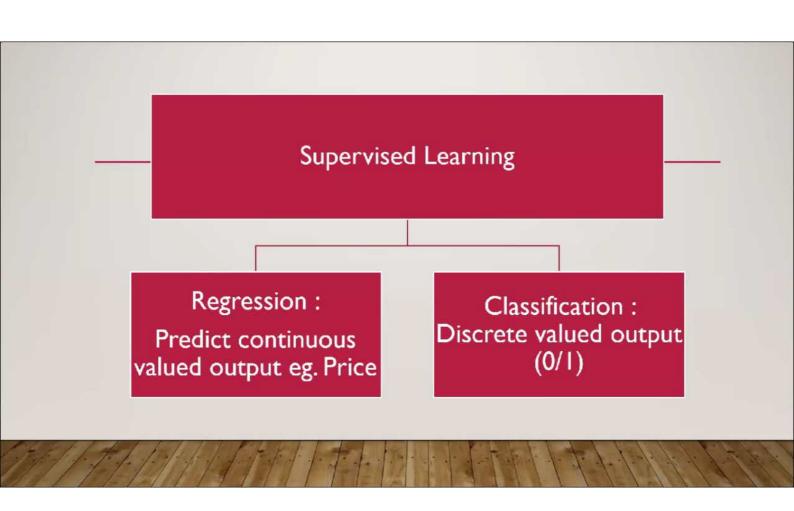


(artificial narrow intelligence)
E.g., smart speaker, self-driving
car, web search, AI in farming
and factories

(artificial general intelligence) Do anything a human can do

SUPERVISED LEARNING





QUESTION: CLASSIFY THE PROBLEMS AS CLASSIFICATION OR REGRESSION?

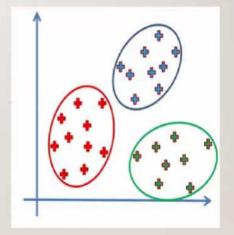
- I. How many tshirts can be sold in next 3 months.
- · 2. To decide if the email is spam or not
- 3.To detect if cup is broken or not
- 4.To determine the price of gold on certain date

STEPS

- I. Gather input dataset
- 2. Train the model
- 3.Predict the result



- Clustering is similar to classification, but the basis is different.
- In Clustering we don't know what we are looking for, and we are trying to identify some segments or clusters in our data.
- When we use clustering algorithms on your dataset, unexpected things can suddenly pop up like structures, clusters and groupings we would have never thought of otherwise.



OBJECTIVE OF CLUSTERING

- Task ---- → Group similar points in one cluster
- I. Points in one cluster are close together
- 2. Points in different clusters are far away

APPLICATIONS OF CLUSTERING

- https://en.wikipedia.org/wiki/Cluster_analysis#Applications
- Ecommerce -> To 'gp' similar customers
- Where manual labelling is time consuming, perform clustering as pre processing step and then do manual labelling

