

Class_09.04.2023_Machine_Learning

April 10, 2023

Types Of Machine Learning

- Supervised Learning
- Unsupervised Learning
- Reinforcement Learning

Supervised Learning

Weather Forecasting

Attributes/features/independent variable

- Humidity
- Previous day's Humidity
- Temperature

End Goal / Target variable / dependent variable

- Rain
- Not Rain

Unsupervised Learning

- Shape of the object
- The colour of the object
- weight of the object
- Orange
- Apple
- Watermelon

Reinforcement Learning

- Learning from examples

Regression Problems

- Linear Regression
- Data of employees -
 - Emp name

- Emp age
- Emp designation
- Emp rating
- Emp present salary
- Manager feedback
- Target variable - (Continuous in nature)
 - Salary for next fiscal
 - 45500
 - 46800

Classification Problem

- Data of employees -
 - Emp name
 - Emp age
 - Emp designation
 - Emp rating
 - Emp present salary
 - Manager feedback
- Target variable -
 - Apprasail Rating
 - A , A+ , B , B+

Recommender System / Reccomendation System

- Content Based
- Collaborative filtering

Content based

- Friends
 - cast - david schwimer , jennifer aniston
 - genre - sitcom
 - episode length - 20 mins

Collaborative Filtering

- users also watched
- netflix making a group of 5 people - based on the content they are watching
- 01st april - 8th april , 5 people , a,b,c,d,e - "catch me if you can" , "philadelphia" , "
- 01st april - 8th april , f - "catch me if you can" , "philadelphia" -- "Sully"