PW SKILLS

Types of ML

1. Supervised ML
2. Unsupervised ML
3. Semi Supervised ML
4. Reinforcement

1. Supervised ML

- CLASSIFICATION
- REGRESSION

Dataset → Specific o/p → Model → o/p

CLASSIFICATION

Independent features

Play hours	Study hours	Pass/Fail
8	2	Fail
7	3	Fail
3	6	Pass

o/p feature → dependent feature

Pass/Fail ⇒ Categorical feature

Regression : o/p ⇒ Continuous

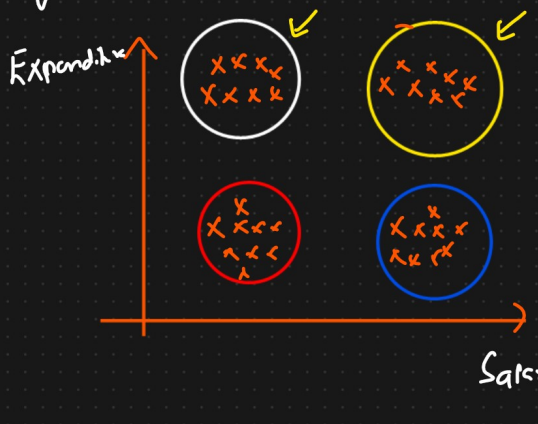
Size of House	No. of Room	Price

Price o/p ⇒ continuous

② Unsupervised ML : Dataset → Clusters or Similar groups

No O/P

Eg: Customer Segmentation



Product → Clusters

↓

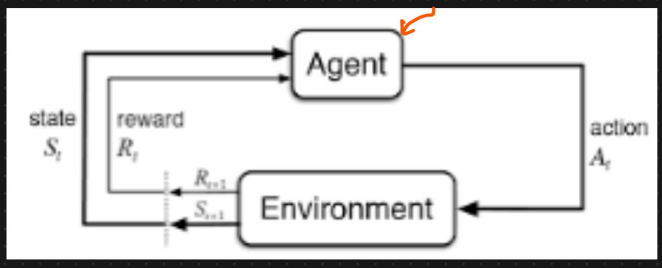
Target the audience

⇓

20% Discount

③ Semi Supervised : Supervised + Unsupervised

④ Reinforcement Learning :



Reinforcement learning is an area of machine learning concerned with how intelligent agents ought to take actions in an environment in order to maximize the notion of cumulative reward. Reinforcement learning is one of three basic machine learning paradigms, alongside supervised learning and unsupervised learning.