Machine Learning

Code / der / algorithm

examples
    ① easy to understand
    ② Helps in remember

⟹ ML is a methadology through which
      we want our machine to learn.

⟹ experiences   ⟹ past experience
                            ⇓
                       past record
                       Past data

Machine basically learn hidden pattern or
insights or trends from the hast data.

⟹ to predict upcoming event

Above is very analogous to how
we human learn.

① Road Crossing

② Touching hot pan

③ Jumping from a long height

Industry ⇒ Haldiram Swiggy

Basketball A
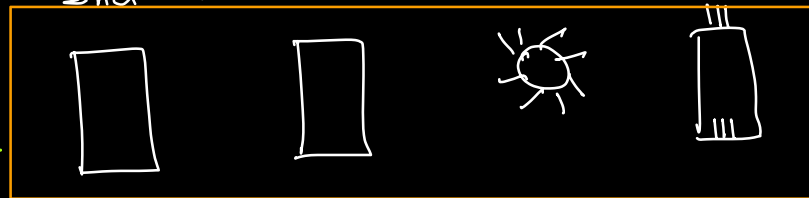
NBA Youtube

enough past data ⇒ try to predict
future

DS ⇒ organizing, collecting & analysing
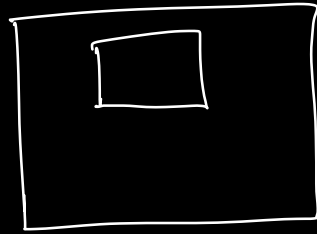
⇒ this can be the strongest

↳ all is DS

ML ⇒ Ind vs Can

↳ tomorrow's match data

AI

DS
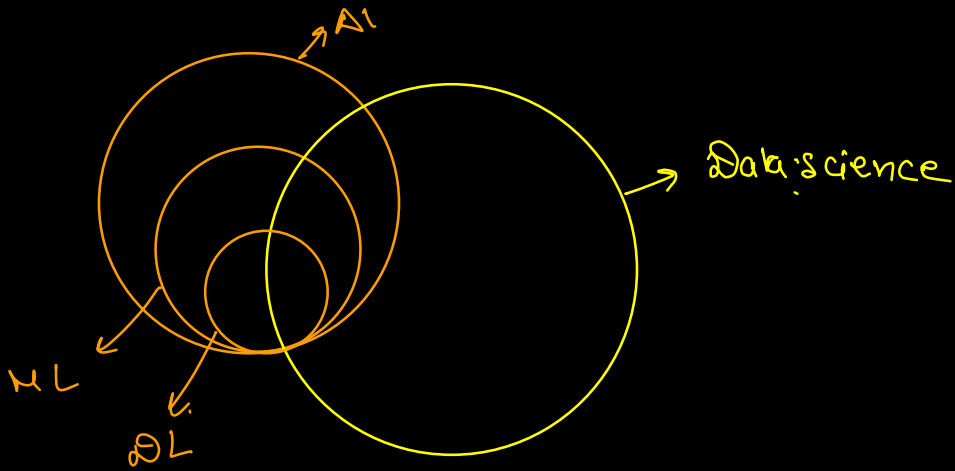ML

AI

Data science

ML

DL

$$\text{2010s} \qquad \text{2020s}$$
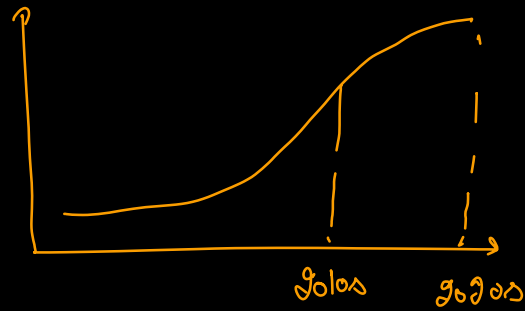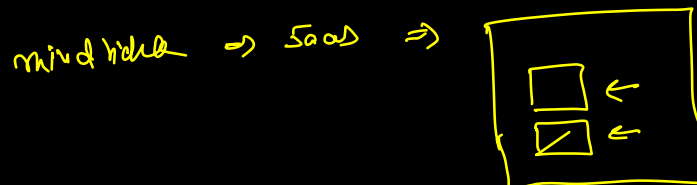
⇒ Google search

⇒ Instagram algo

⇒ Amazon / recomm
      Netflix

OYO ⇒ ६ □ ←
         □
         □   ३ ←
             τ

mind hicha → Saas ⇒ ▭
                      □ ←
                      ◻ ←
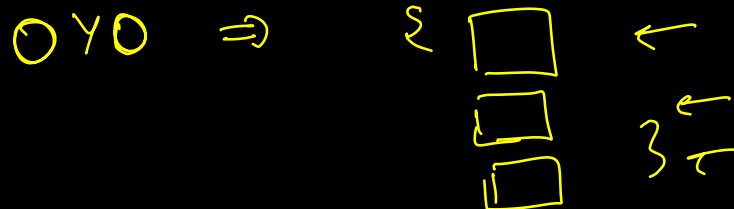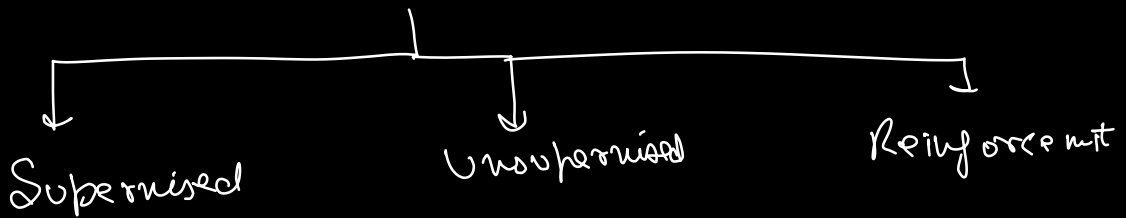
Every thing should make [business sense]

1. Steps to save earth ⇒ kill all human beings

2. Chat bot giving some Answer

Machine Learning

Supervised   Unsupervised   Reinforcement

Supervised

⇒ predict   a class or a value

↓ iris   ↓ housing
     titanic   car dekho

Classification   regression

⇒ we have exact data & exact what happened.

⇒ new data point ⇒ predict

Unsupervised ML

⟹ not clearly marked with <u>labels/class</u>
  & no target variable

⟹ self guided learning algorithm
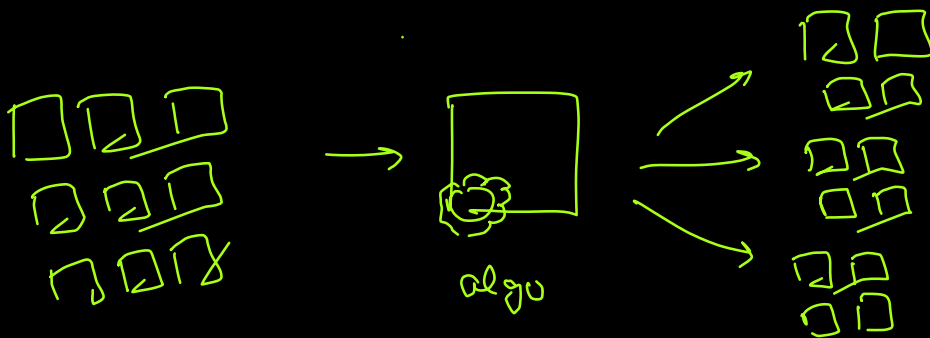
Reinforcement Learning

+100

~~500~~ -100

Agent

Environment

environment

agent

actions →

rewards ←

observations ←