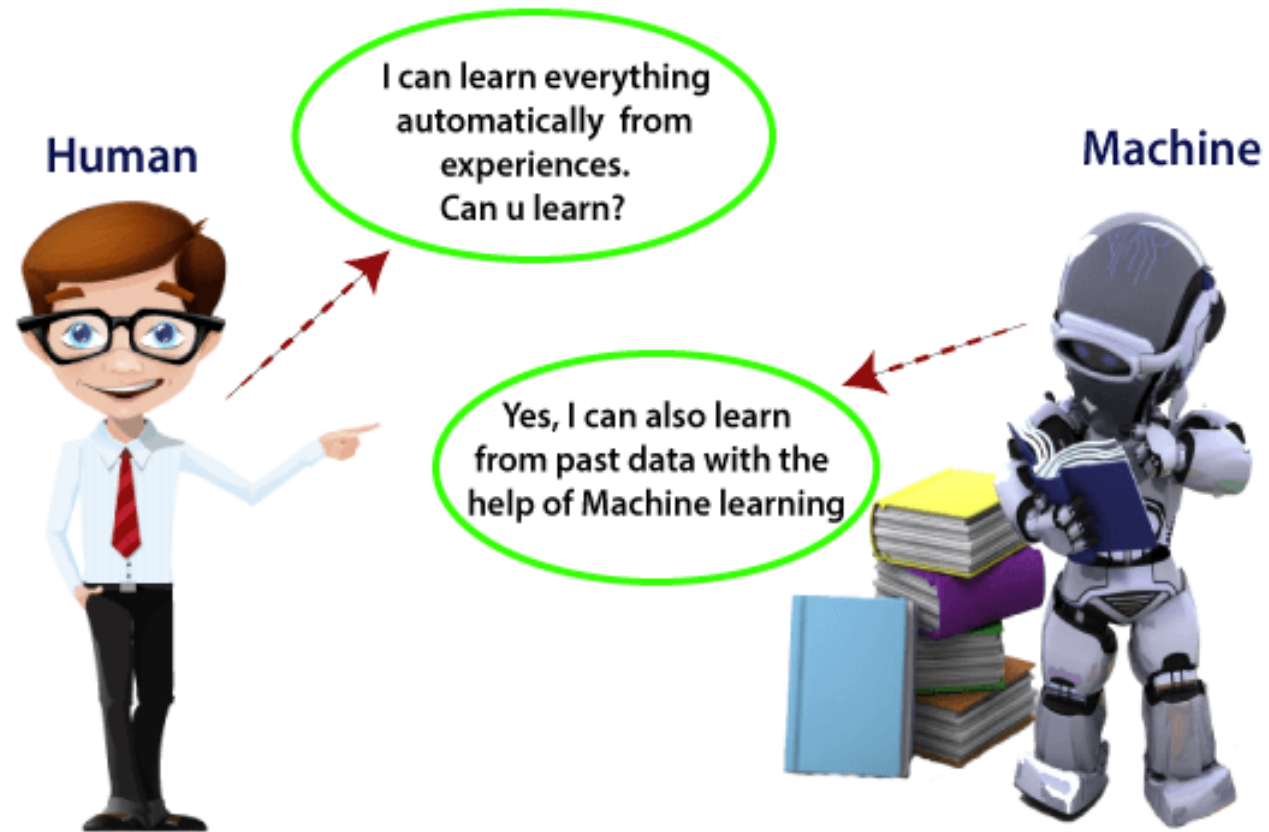


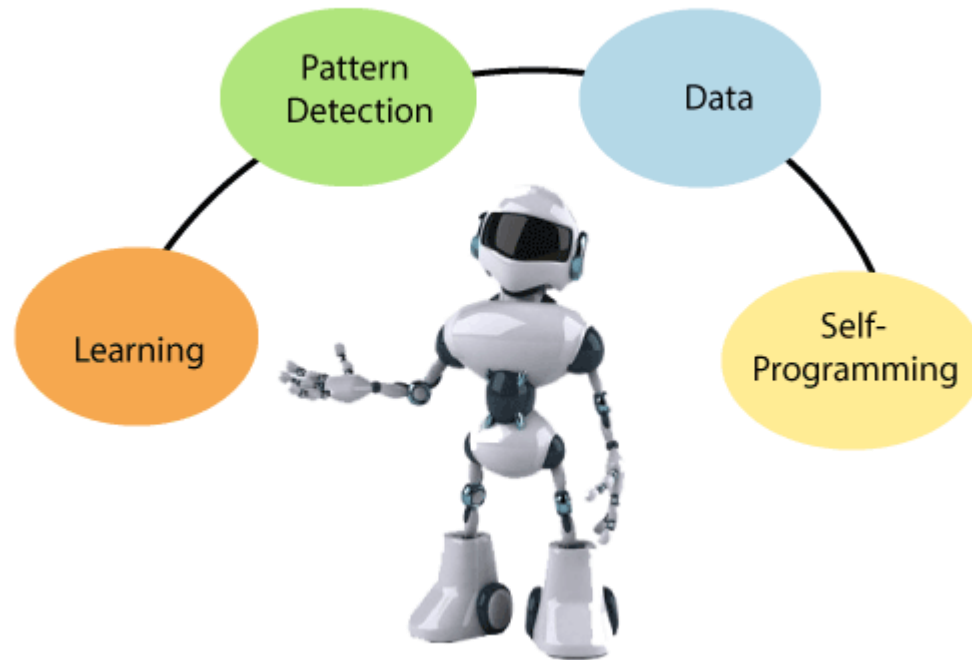
Machine Learning

UTKARSH GAIKWAD

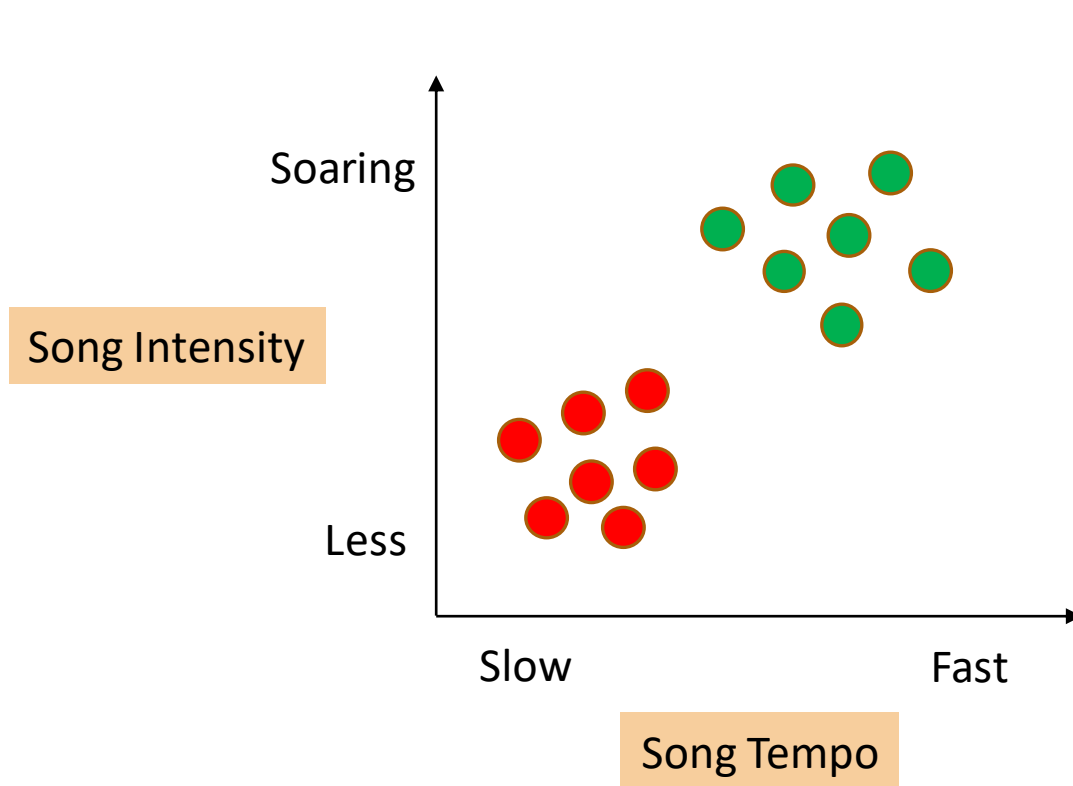
What is machine learning



What happens in machine learning



Example of a machine learning algorithm

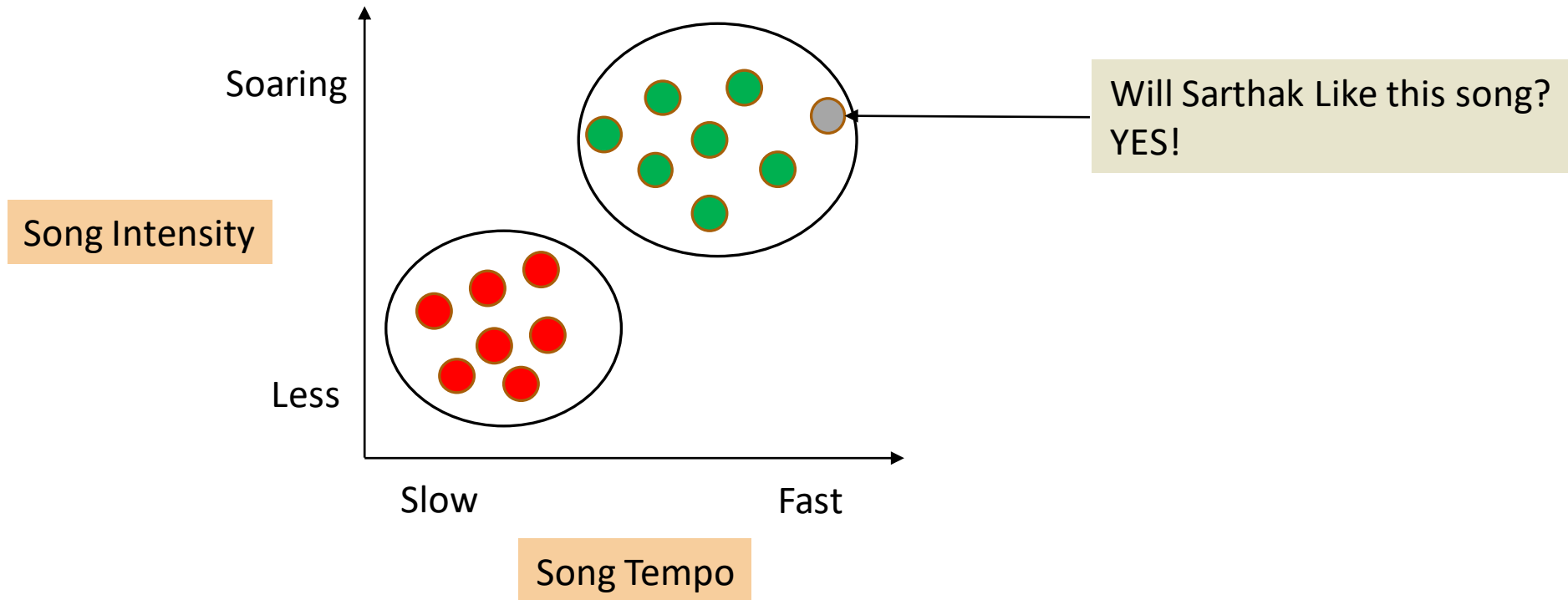


Sarthak

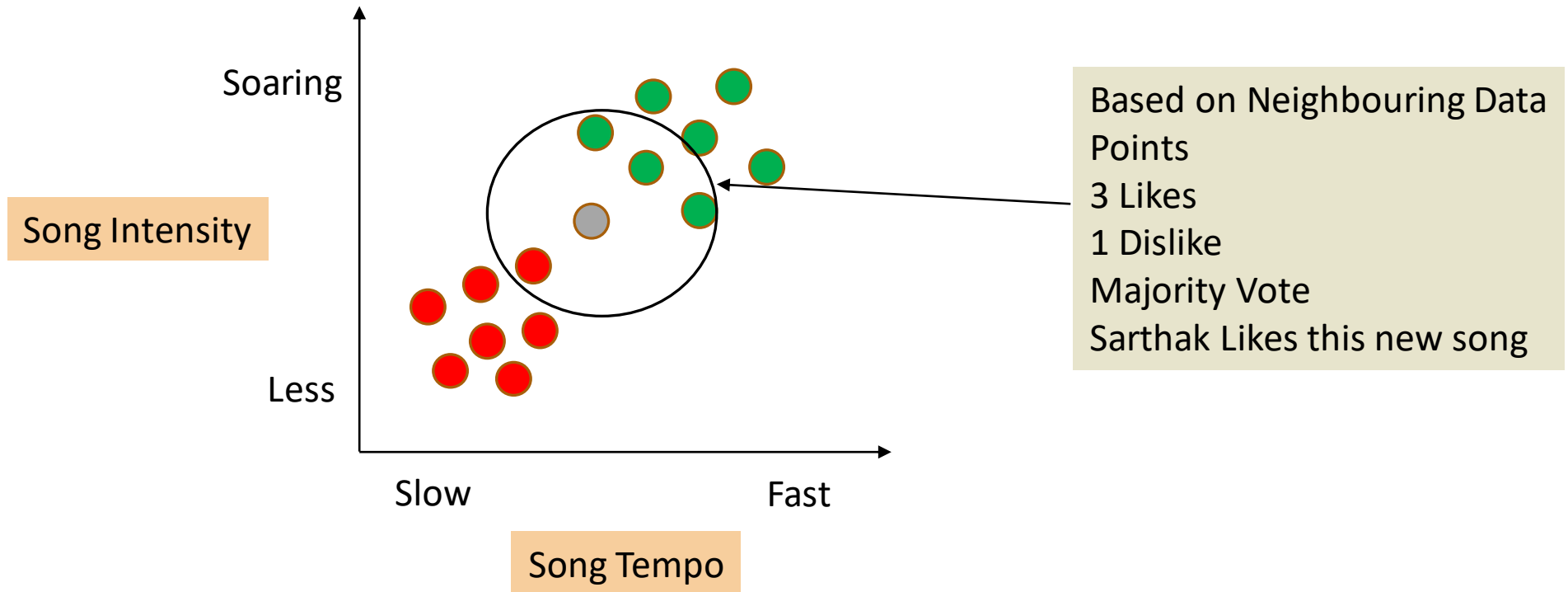


Likes listening to music

Will Sarthak like new song ? Fast tempo, Soaring Intensity

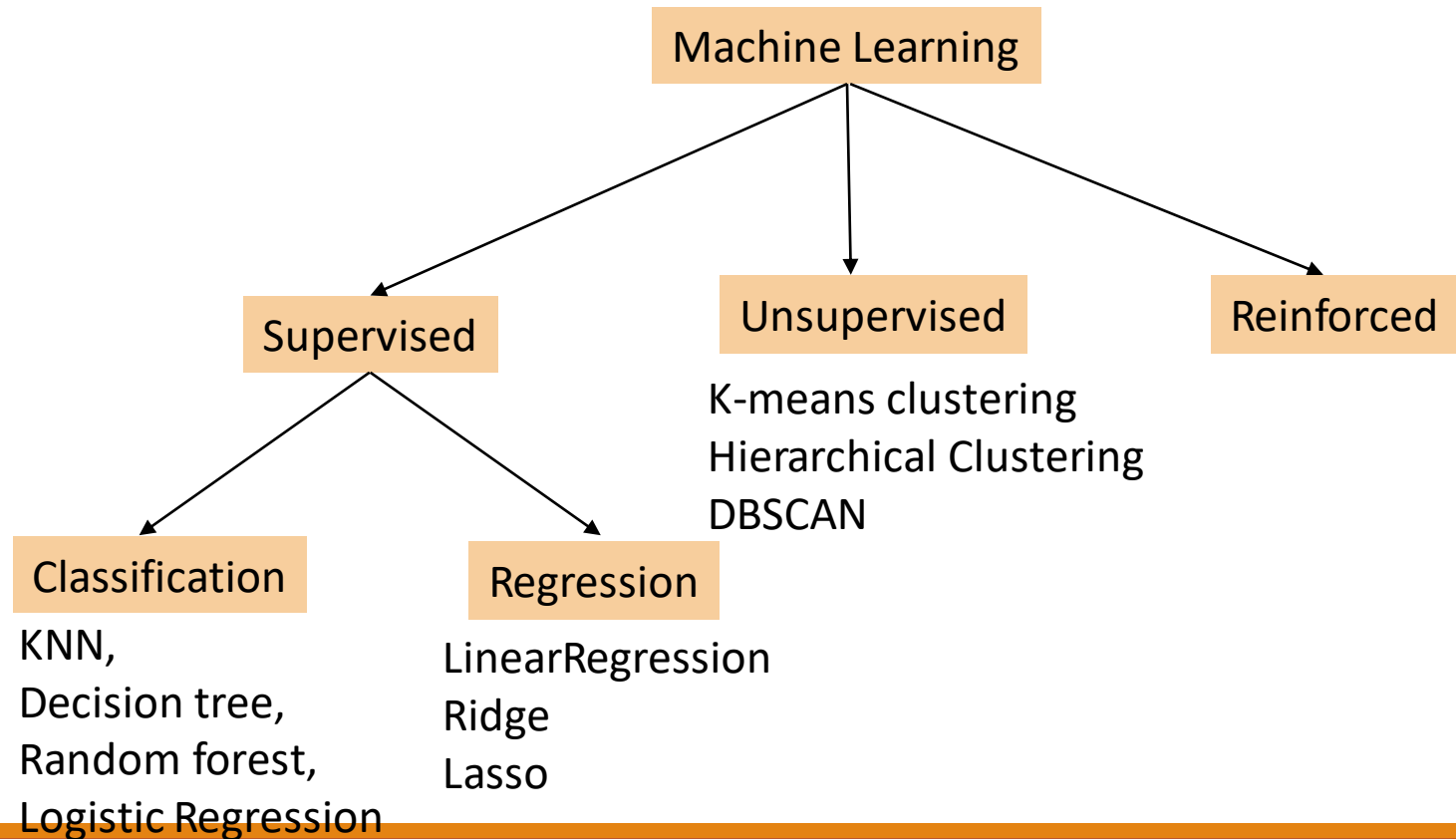


Medium Tempo , Medium Intensity



This Algorithm Called as KNN (K-Nearest-Neighbours)

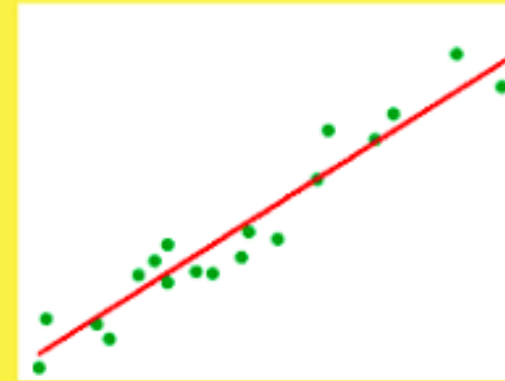
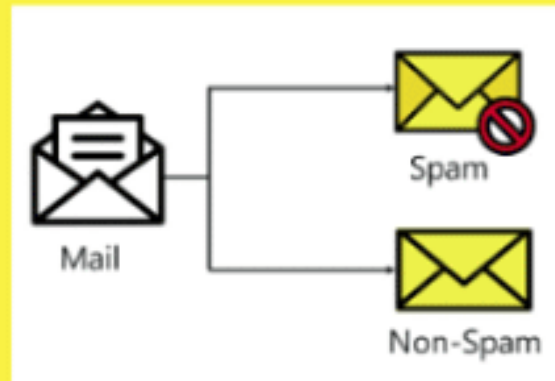
Types of Machine Learning Algorithms



Supervised Machine Learning

Classification vs Regression

Categories



Temperature
for tomorrow?

Raw Data Example for Supervised Learning

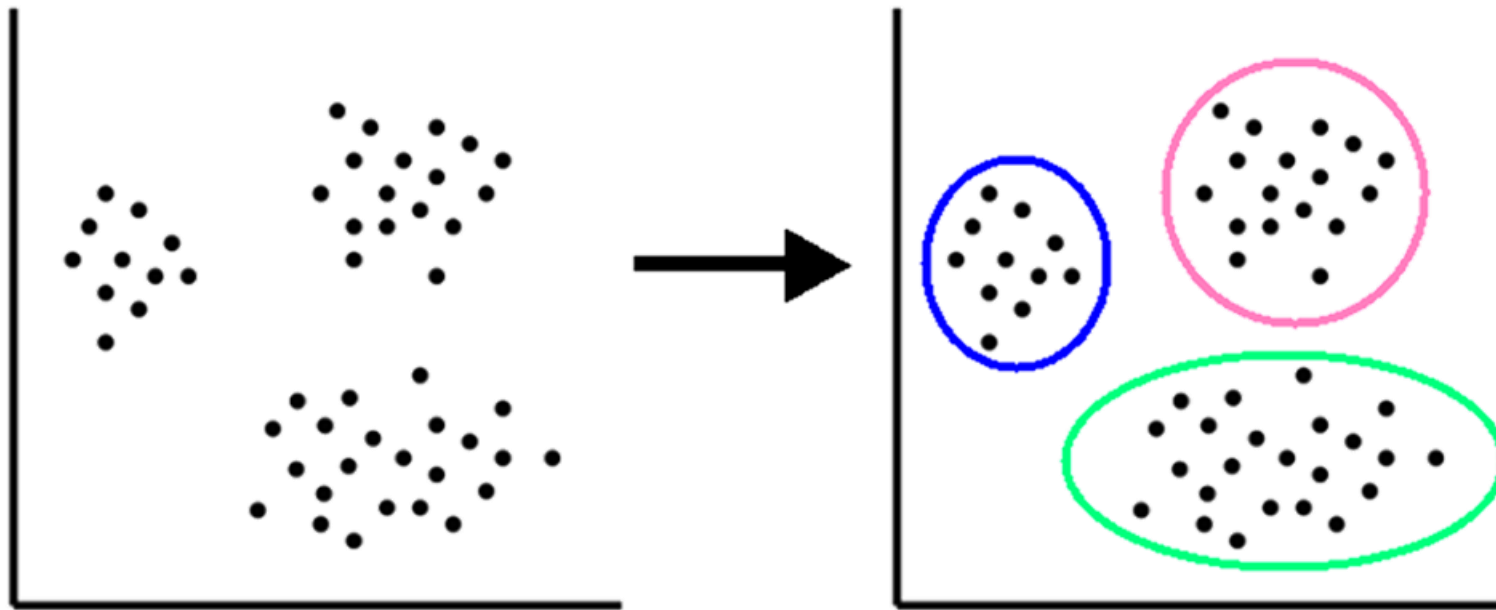
Email	Category
Congratulations you won lottery of 1 crore!	Spam
HDFC Bank Loan Approved	Ham
Friend Posted on Facebook	Ham
Reminder: Please pay your college Fees	Ham
Warning! Your PC is infected by Virus	Spam
You Have won a free iPhone please send a/c number	Spam

Target Feature / Label



Unsupervised Machine Learning

- Find Out Pattern in Data and Group them together
- No Labels provided



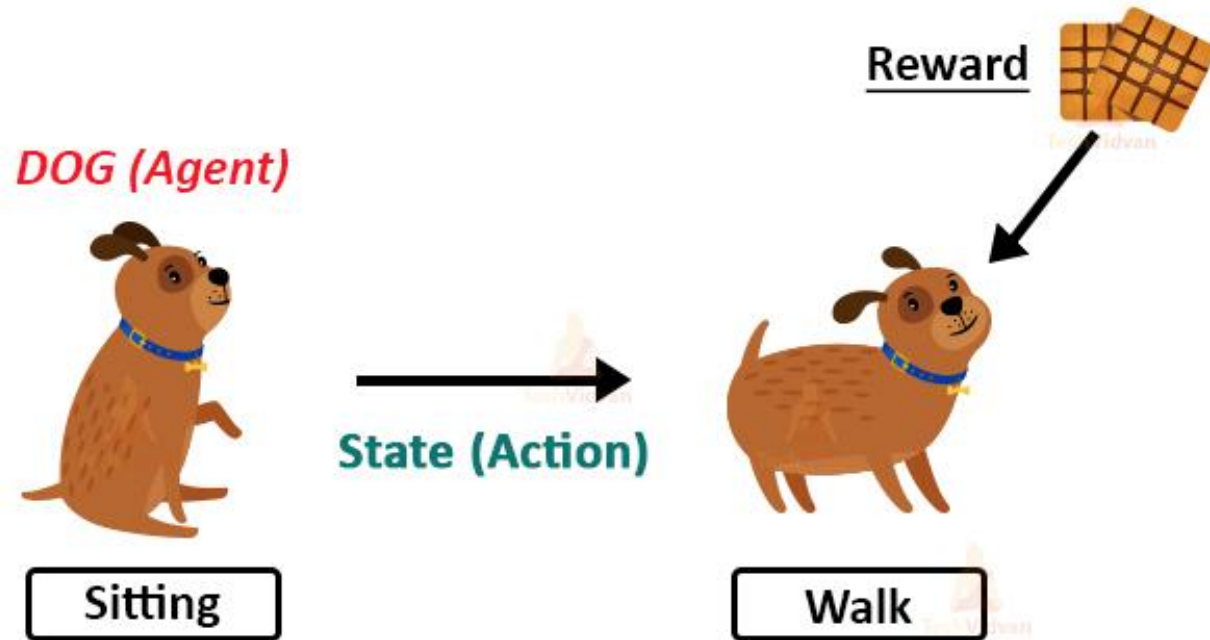
Example of Unsupervised Data

Income per month	Credit Card Spend Monthly
100000	50000
30000	5000
60000	40000
80000	10000
150000	20000

No Labels or target data available
Group similar datapoints together

Reinforcement Learning

Reinforcement Learning in ML



Used in Gaming
Example
Playing Chess against computers

Thank you

FOR ANY QUERIES PING ME ON SKYPE