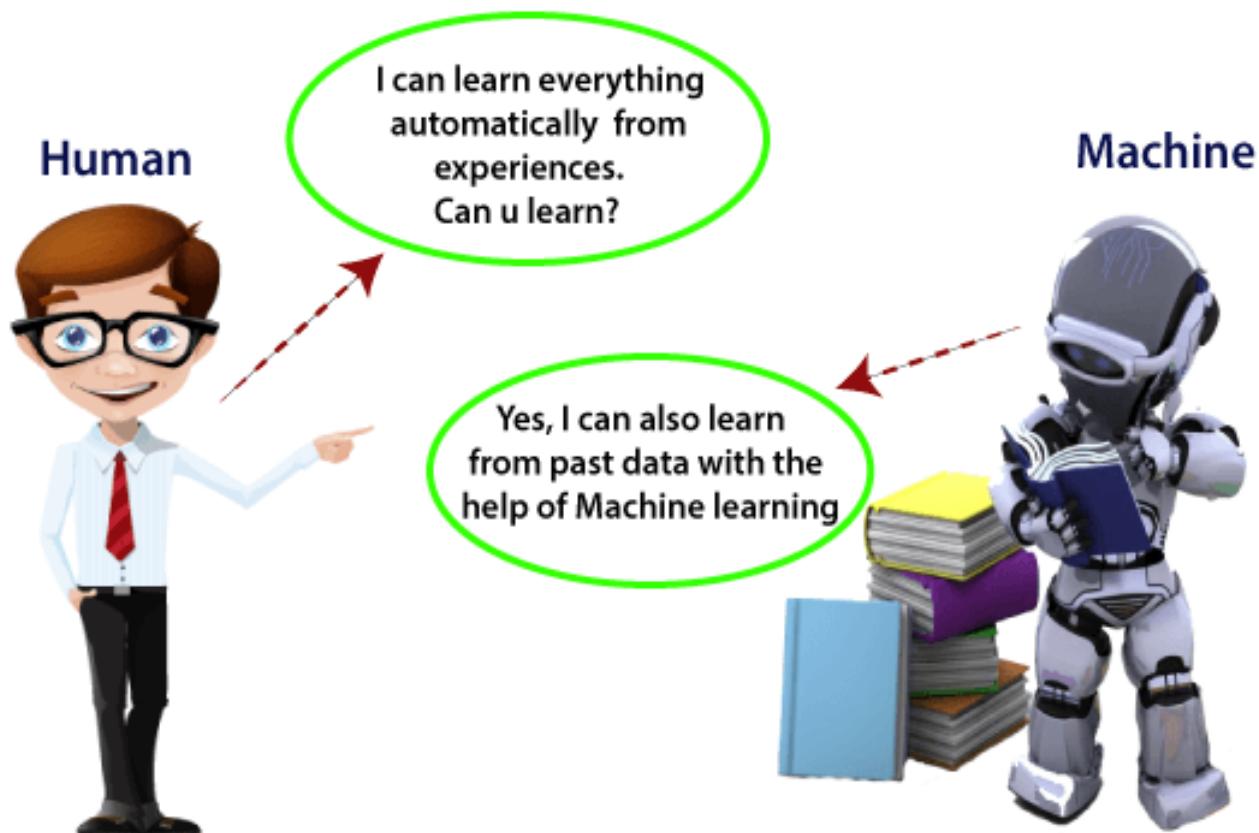


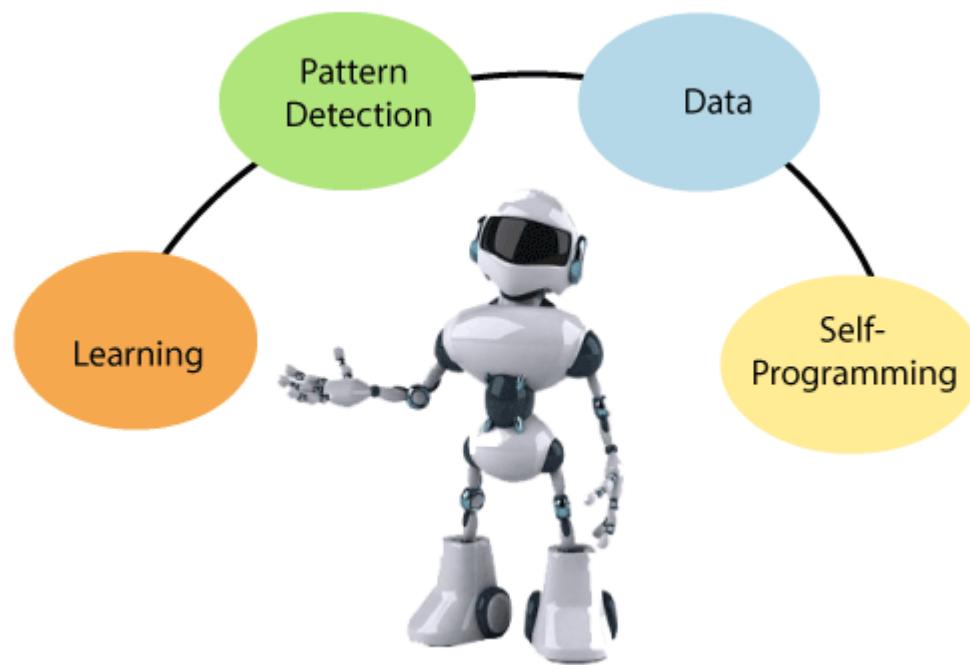
Machine Learning

UTKARSH GAIKWAD

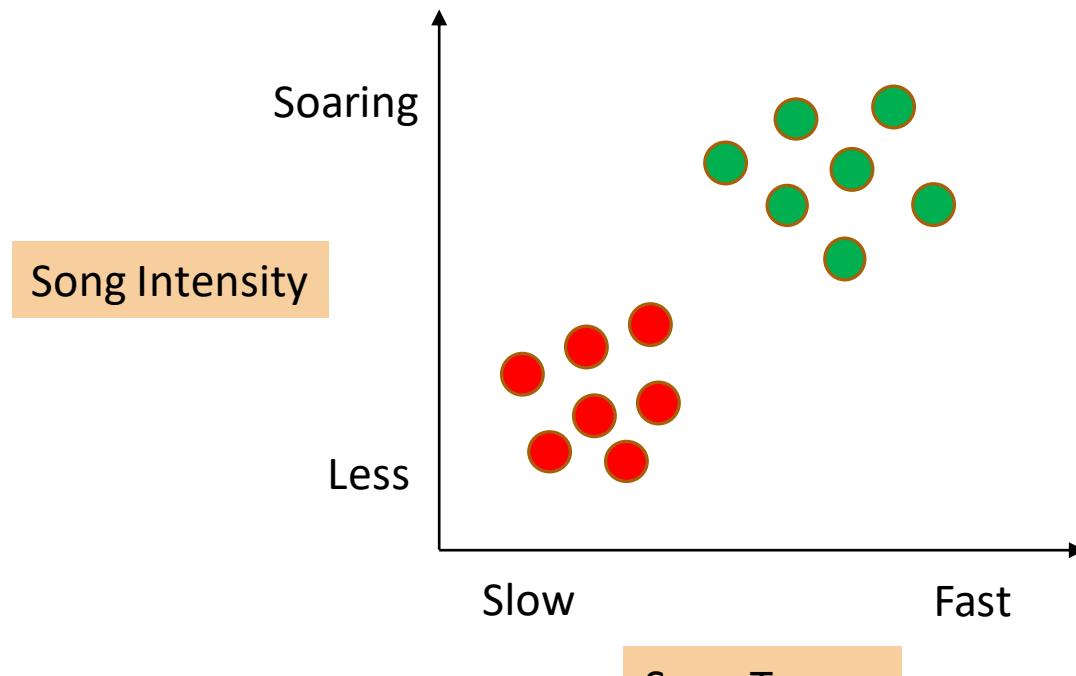
What is machine learning



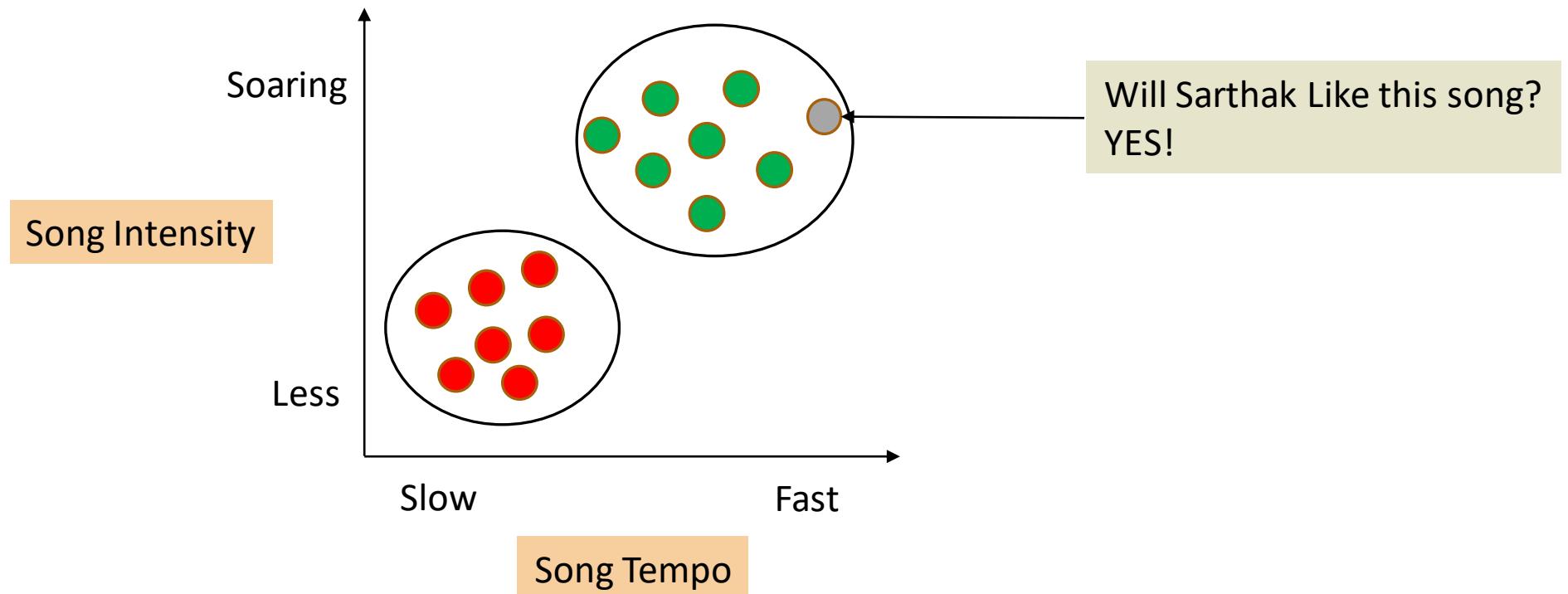
What happens in machine learning



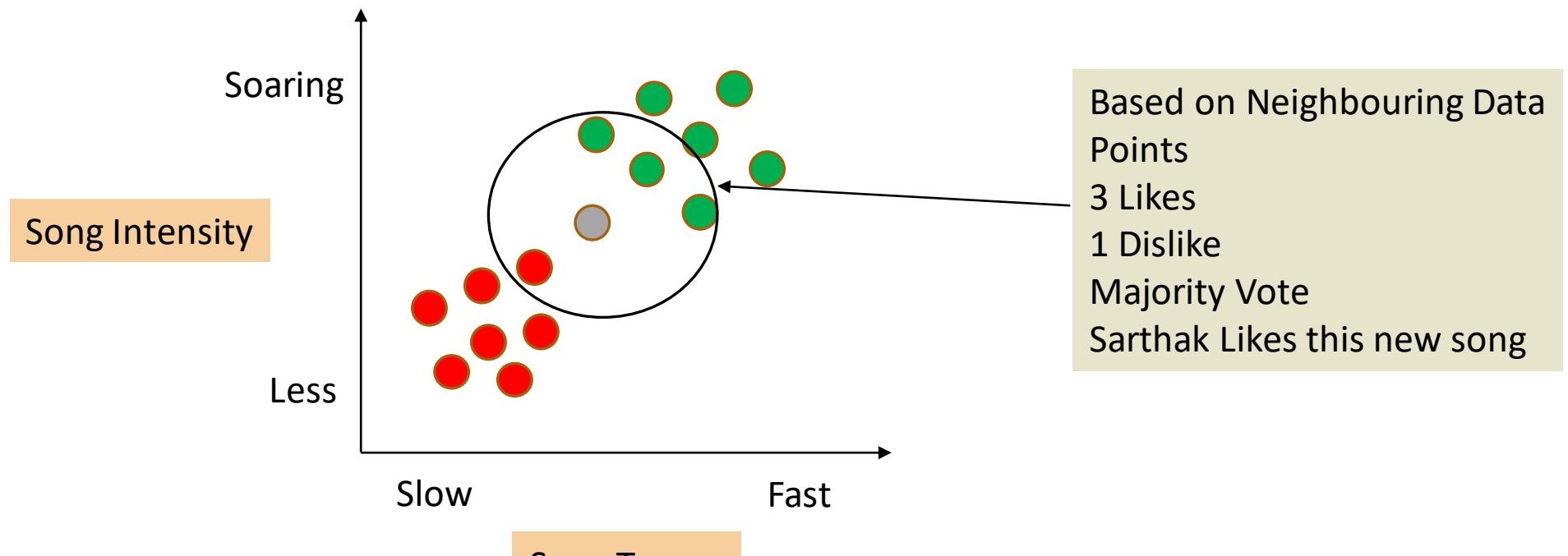
Example of a machine learning algorithm



Will Sarthak like new song ? Fast tempo, Soaring Intensity

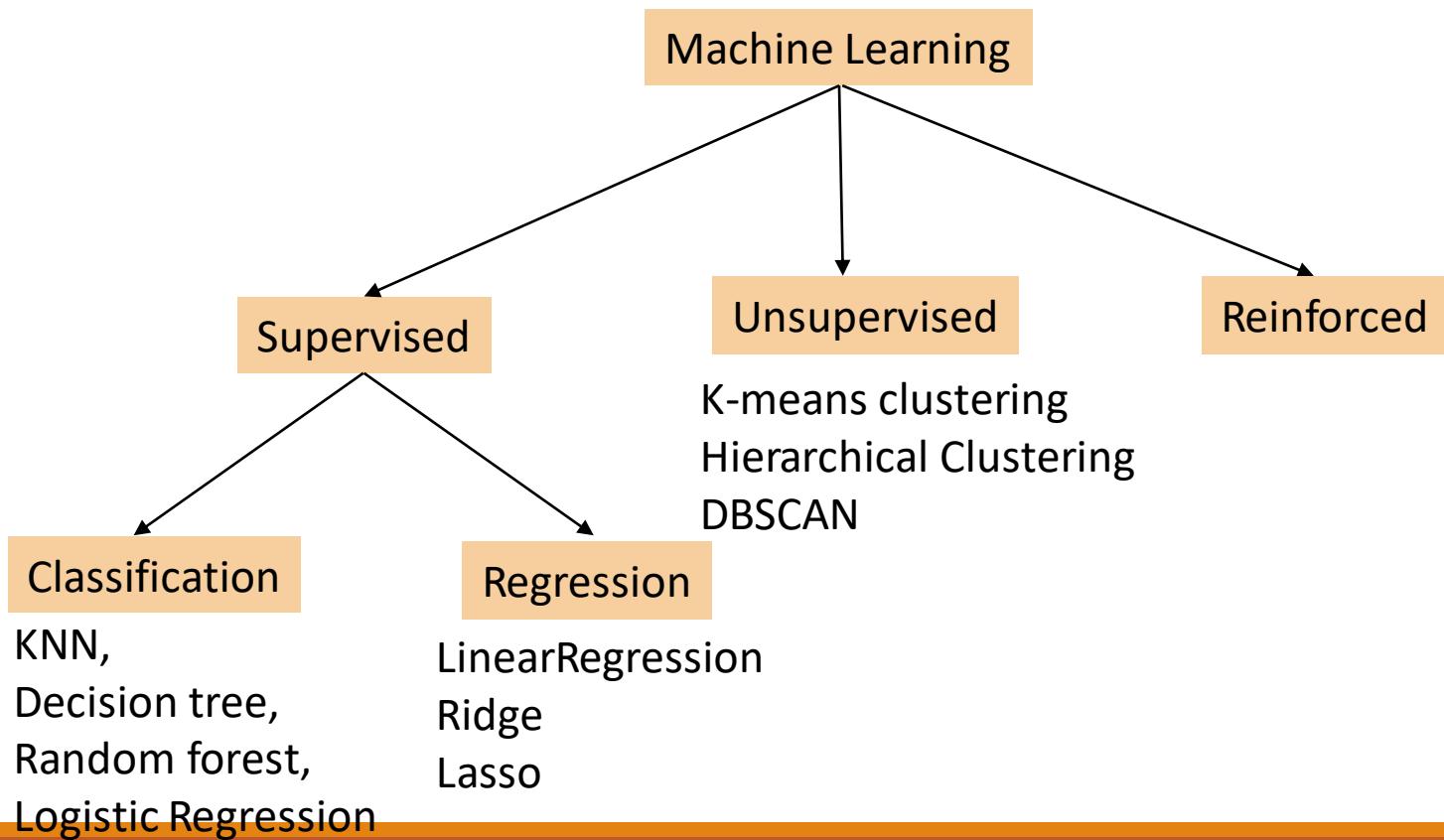


Medium Tempo , Medium Intensity

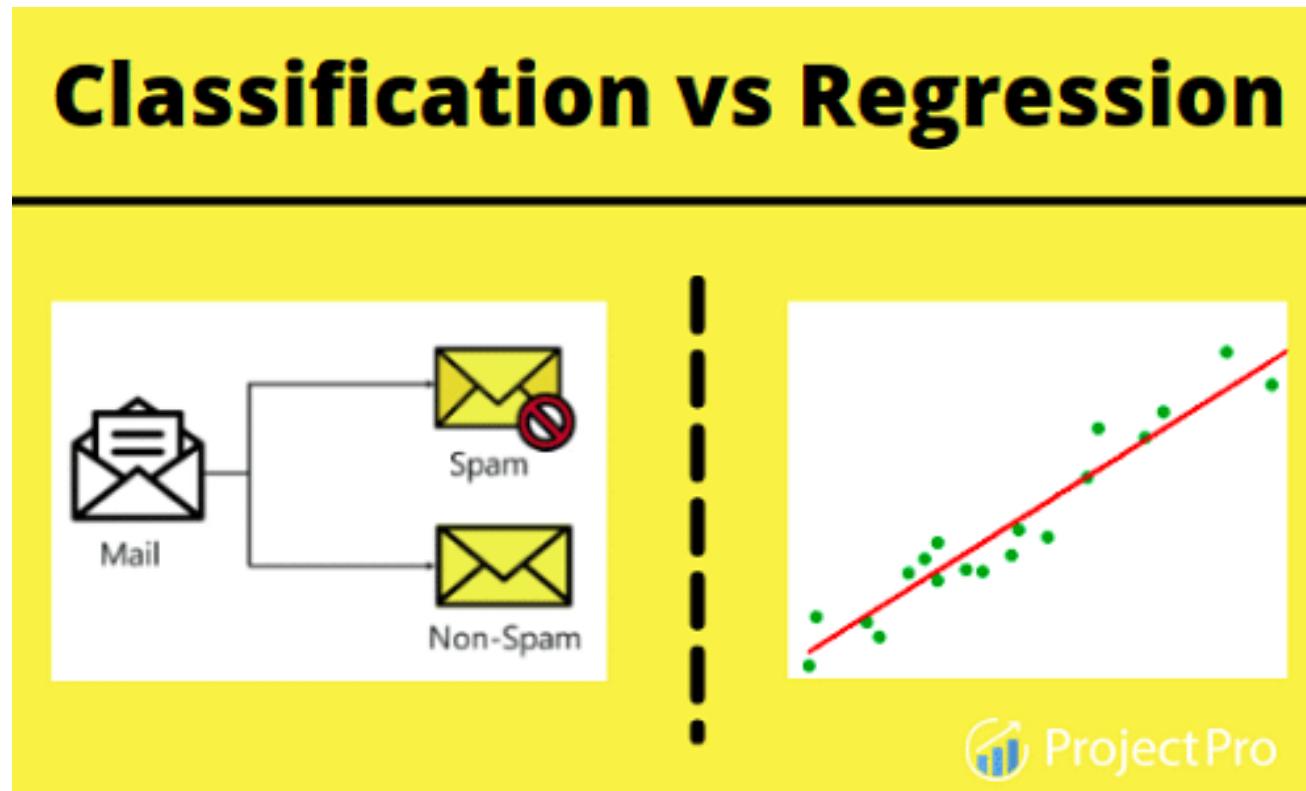


This Algorithm Called as KNN (K-Nearest-Neighbours)

Types of Machine Learning Algorithms



Supervised Machine Learning



Raw Data Example for Supervised Learning

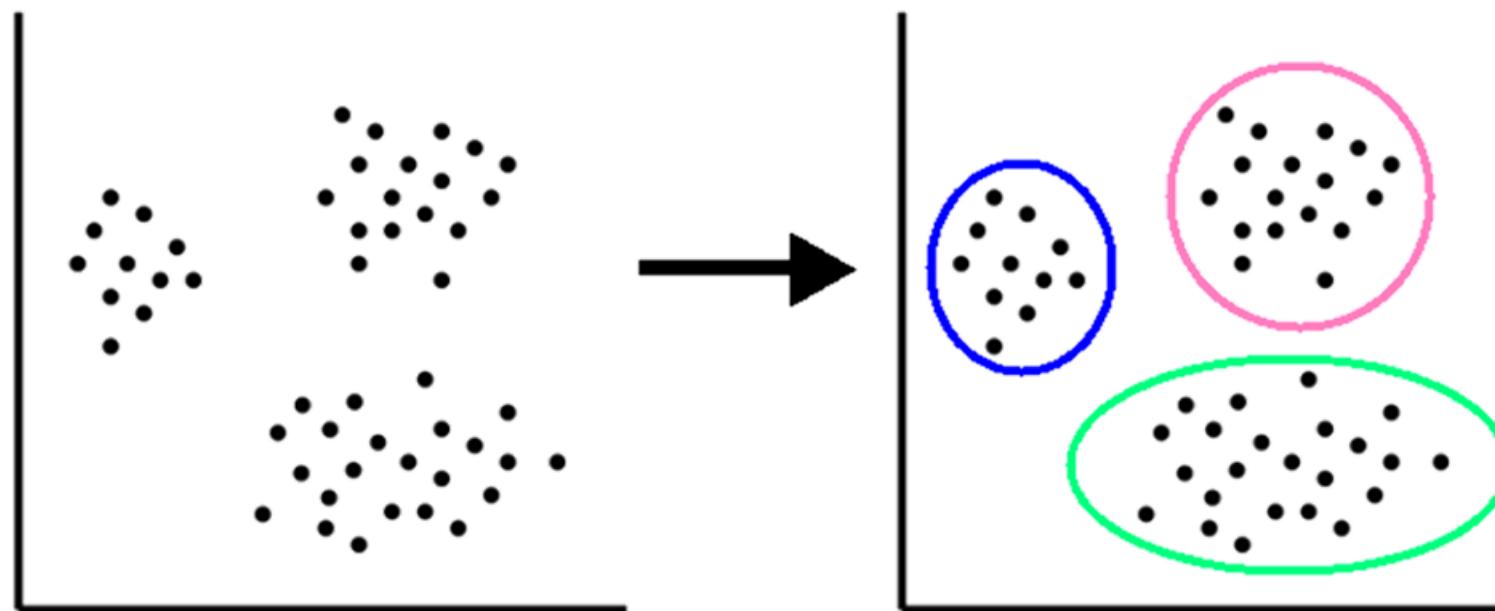
| Email | Category |
|---|----------|
| Congratulations you won lottery of 1 crore! | Spam |
| HDFC Bank Loan Approved | Ham |
| Friend Posted on Facebook | Ham |
| Reminder: Please pay your college Fees | Ham |
| Warning! Your PC is infected by Virus | Spam |
| You Have won a free iPhone please send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

Target Feature / Label



Unsupervised Machine Learning

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



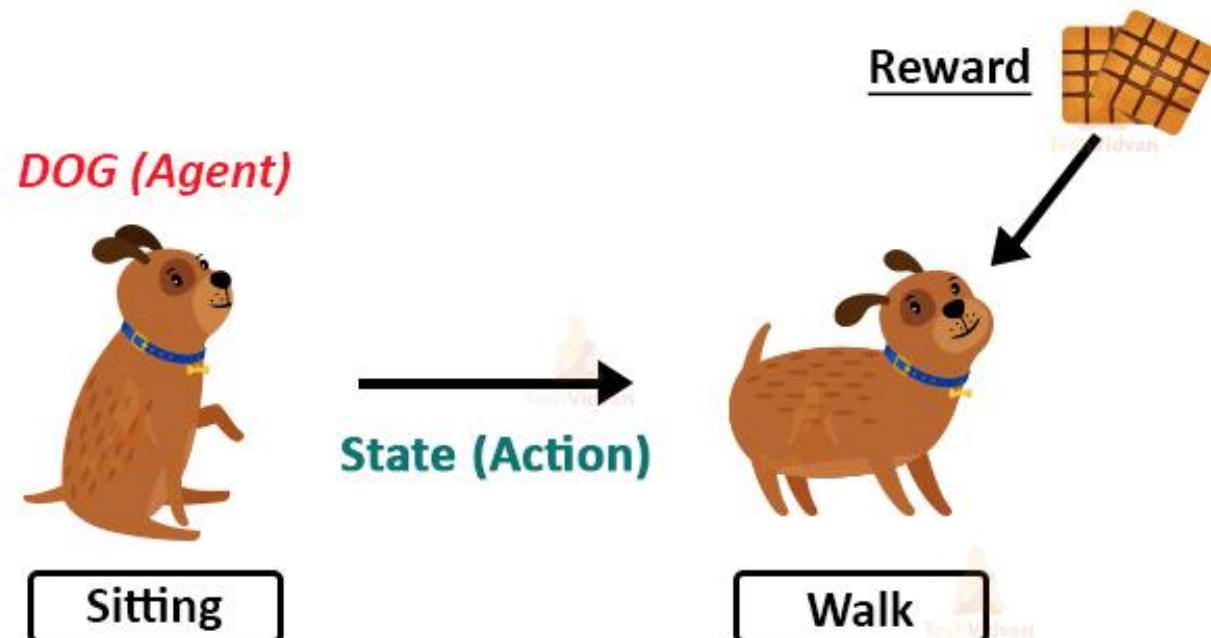
Example of Unsupervised Data

| 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