

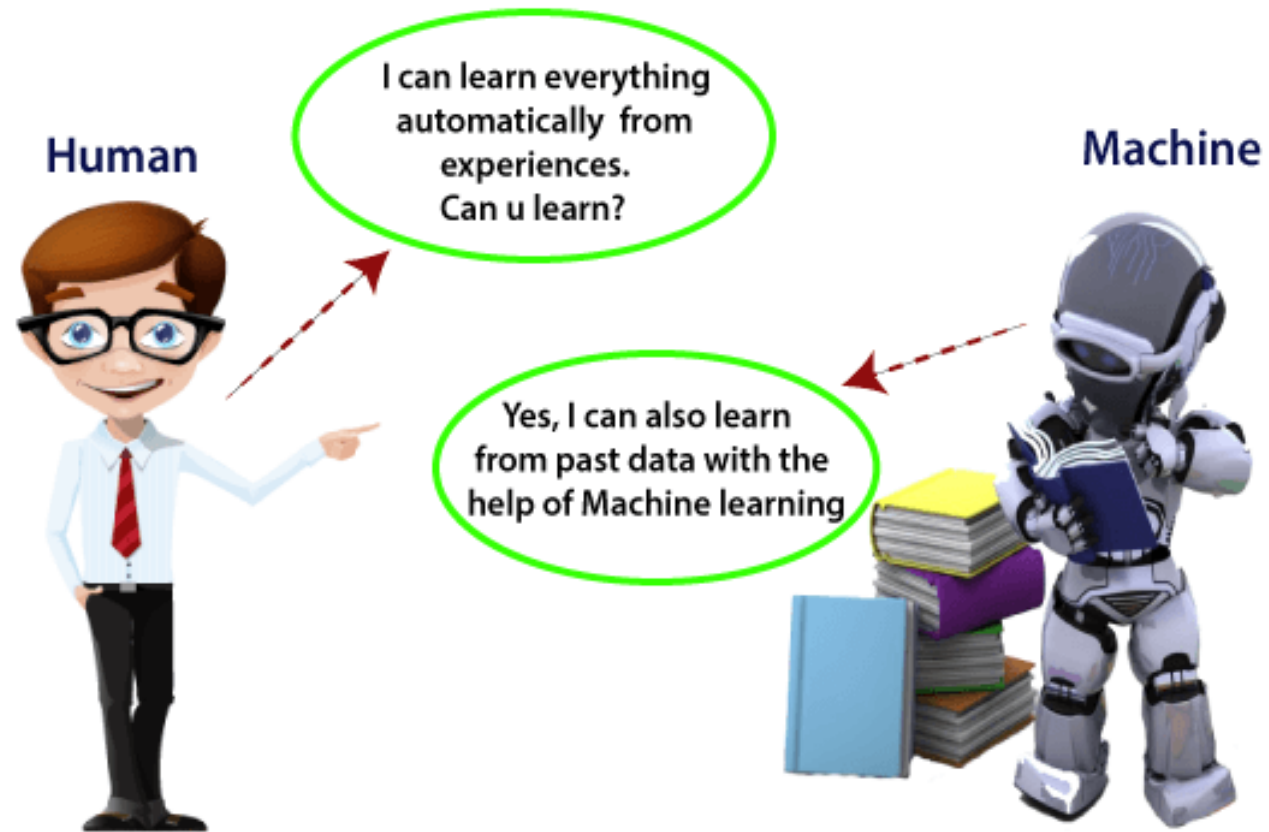
# Machine Learning

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UTKARSH GAIKWAD

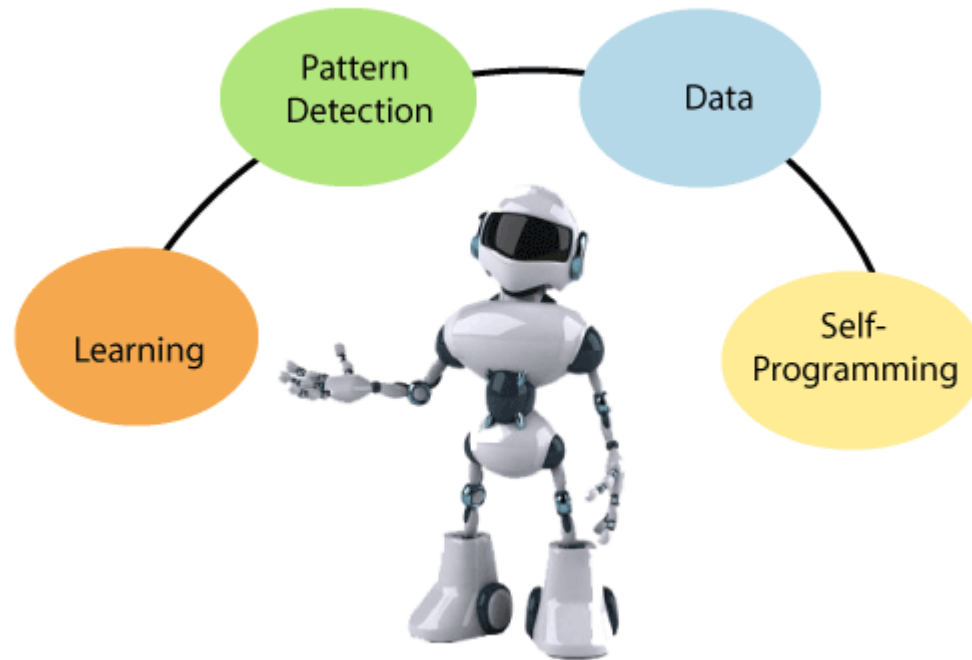
# What is machine learning

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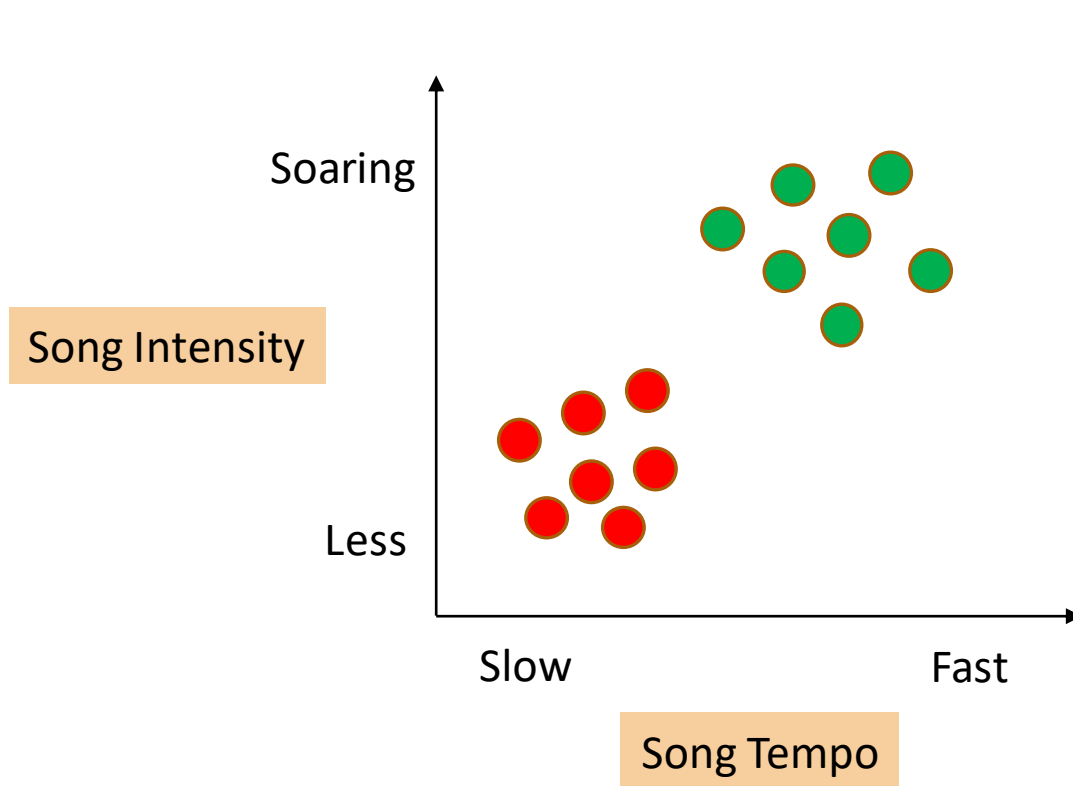
# What happens in machine learning

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# Example of a machine learning algorithm

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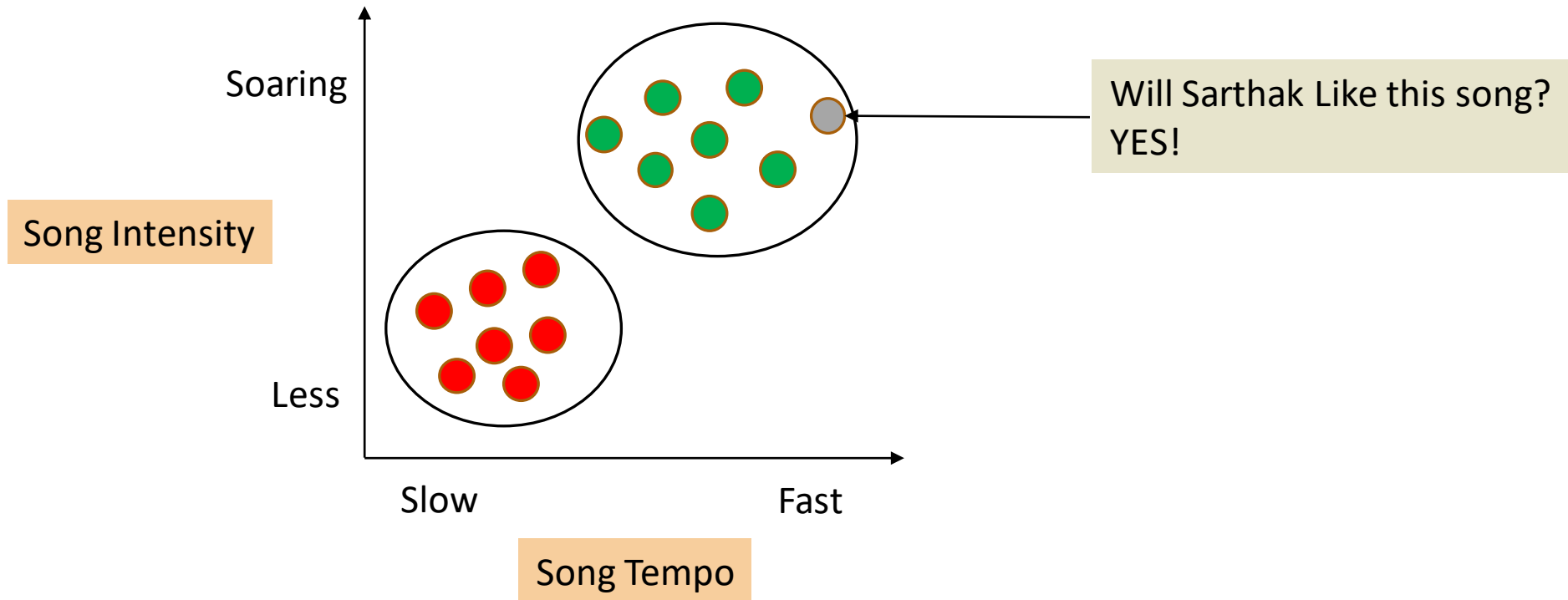
Sarthak



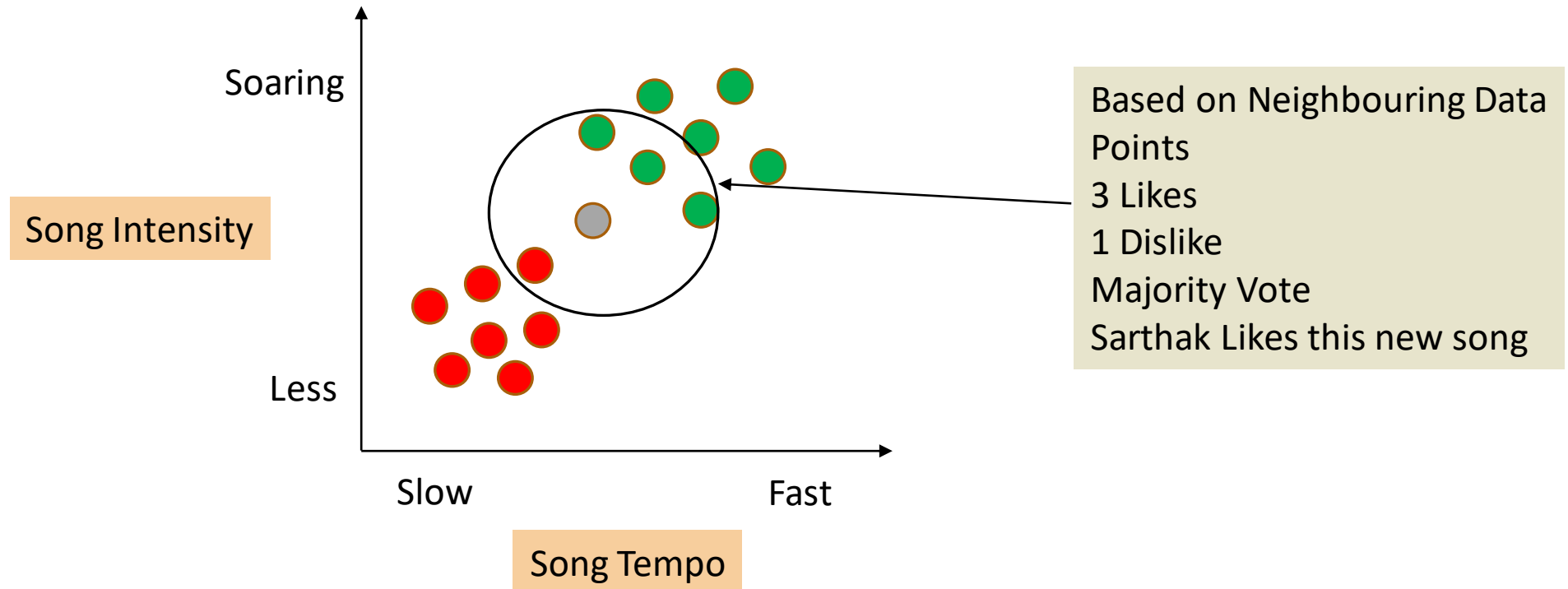
Likes listening to music

# Will Sarthak like new song ? Fast tempo, Soaring Intensity

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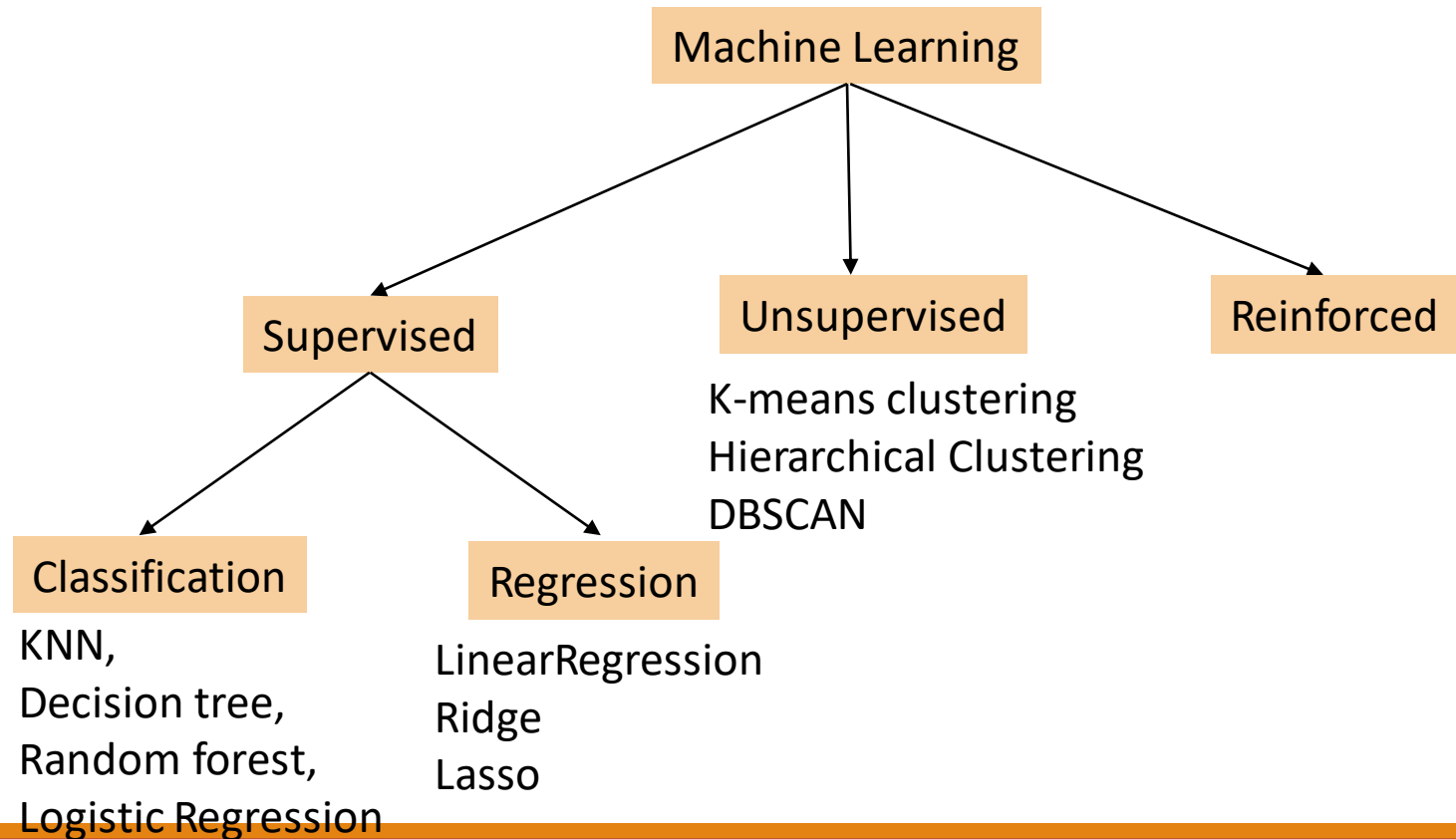
# Medium Tempo , Medium Intensity



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

# Types of Machine Learning Algorithms

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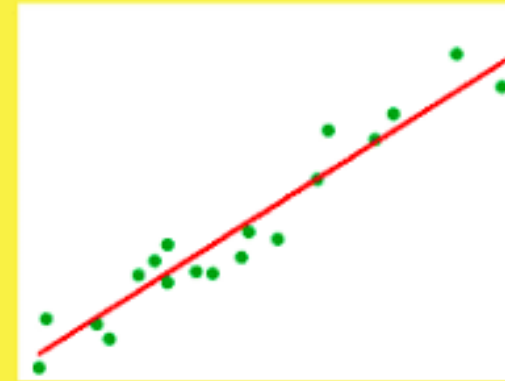
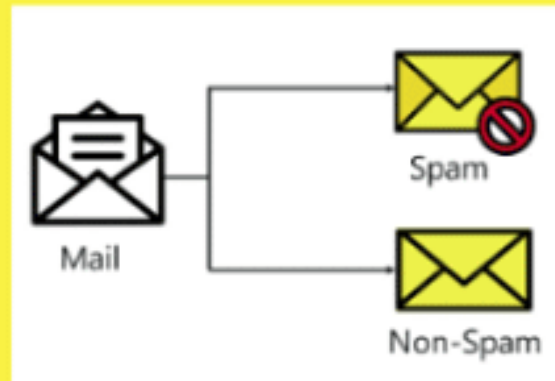


# Supervised Machine Learning

## Classification vs Regression

Categories

Whether person is  
Diabetic/ Non Diabetic



Temperature  
for tomorrow?

What is demand for  
Burgers in McDonalds



# Raw Data Example for Supervised Learning

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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

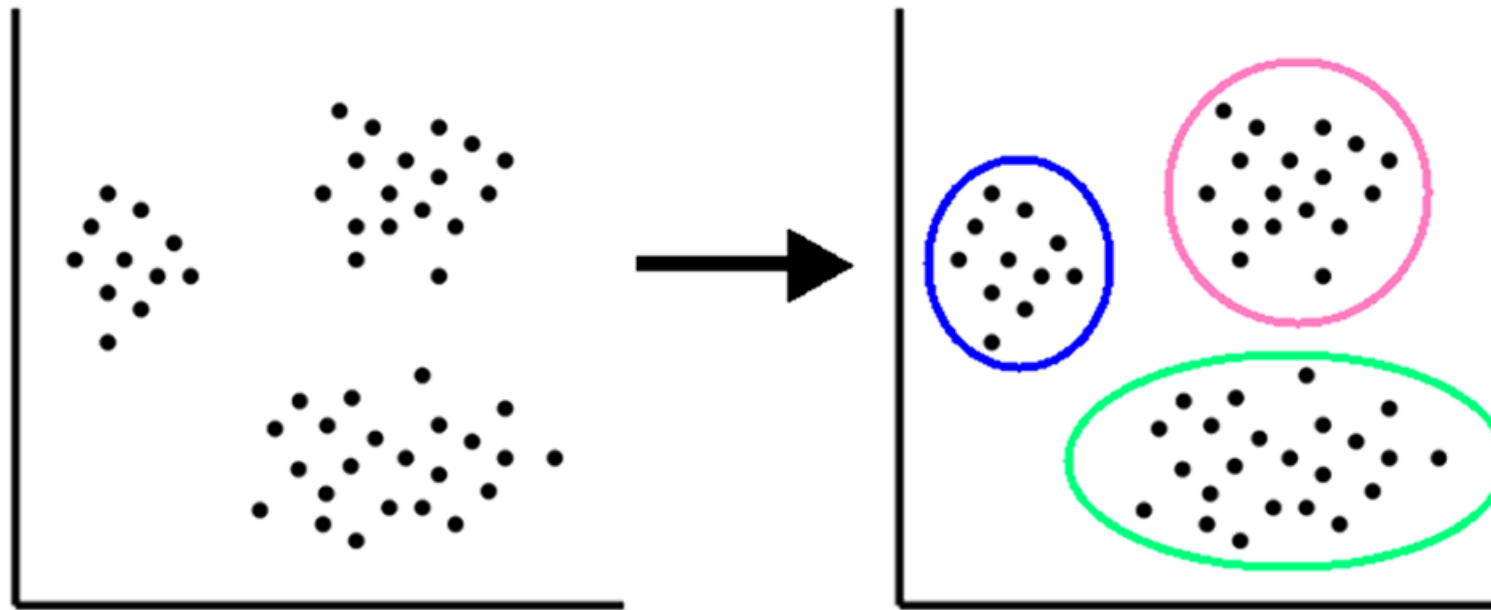
Target Feature / Label



# Unsupervised Machine Learning

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- Find Out Pattern in Data and Group Similar data together
- No TargetColumn / Labels provided



# Example of Unsupervised Data

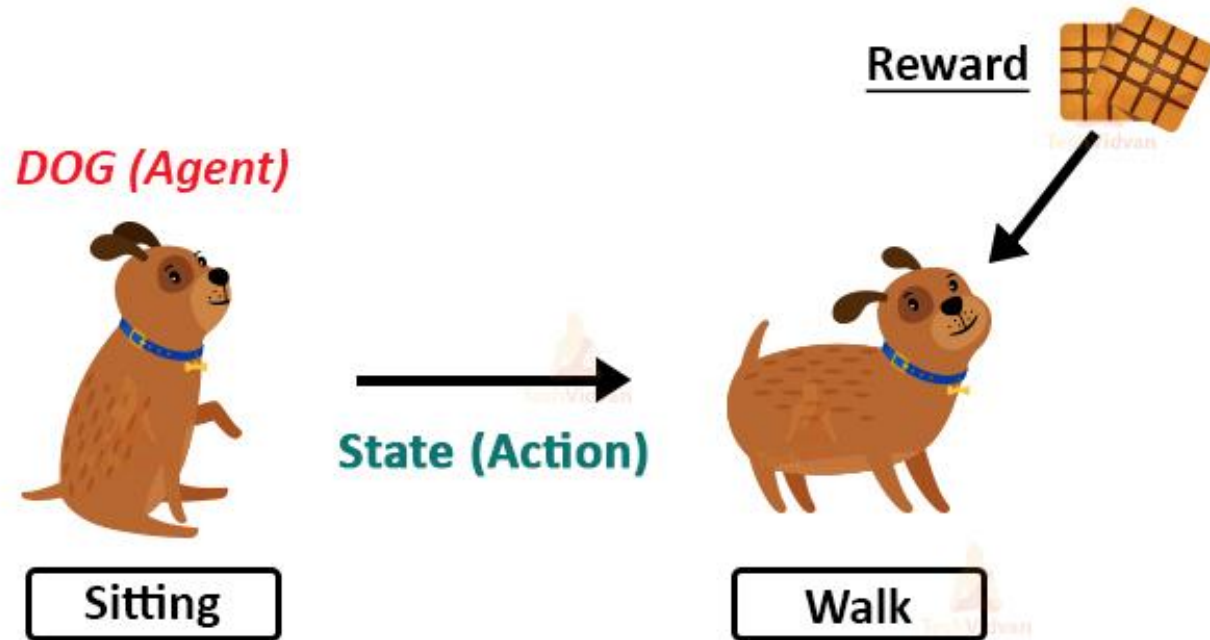
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Income per month	Credit Card Spend Monthly
100000	50000
30000	5000
60000	40000
80000	10000
150000	20000

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

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FOR ANY QUERIES PING ME ON SKYPE