SNS COLLEGE OF TECHNOLOGY

Coimbatore - 35

23BAT613 – Artificial Intelligence for Managers

Unit II – Unboxing ML & Its Applications

Presented by

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Design Thinker

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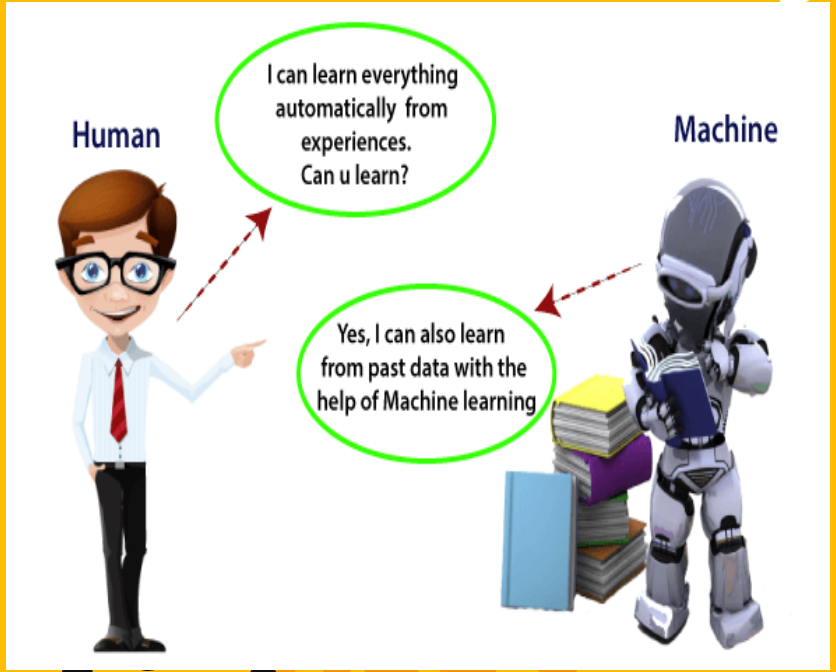
Guess the Topic!!!

Introduction to Machine Learning



Recap

- Introduction to AI & ML Technologies / Applications
- Tools & Platforms for organizations to deploy AI & ML solutions
- Importance of Data
- Statistical Foundations
- Story Telling with Data Visualization Techniques

Discussion about….

- Reason to study ML
- Introduction to ML
- ML Process
- ML Workflow
- How does ML works?
- Types of ML

Reason to study ML

Learning:

Training Data

Pre-Processing
Normalization
Dimension Reduction

Learning
Supervised Learning
Unsupervised Learning

Error Analysis
Precision / Recall
Over fitting
Test Cross validation

Prediction:

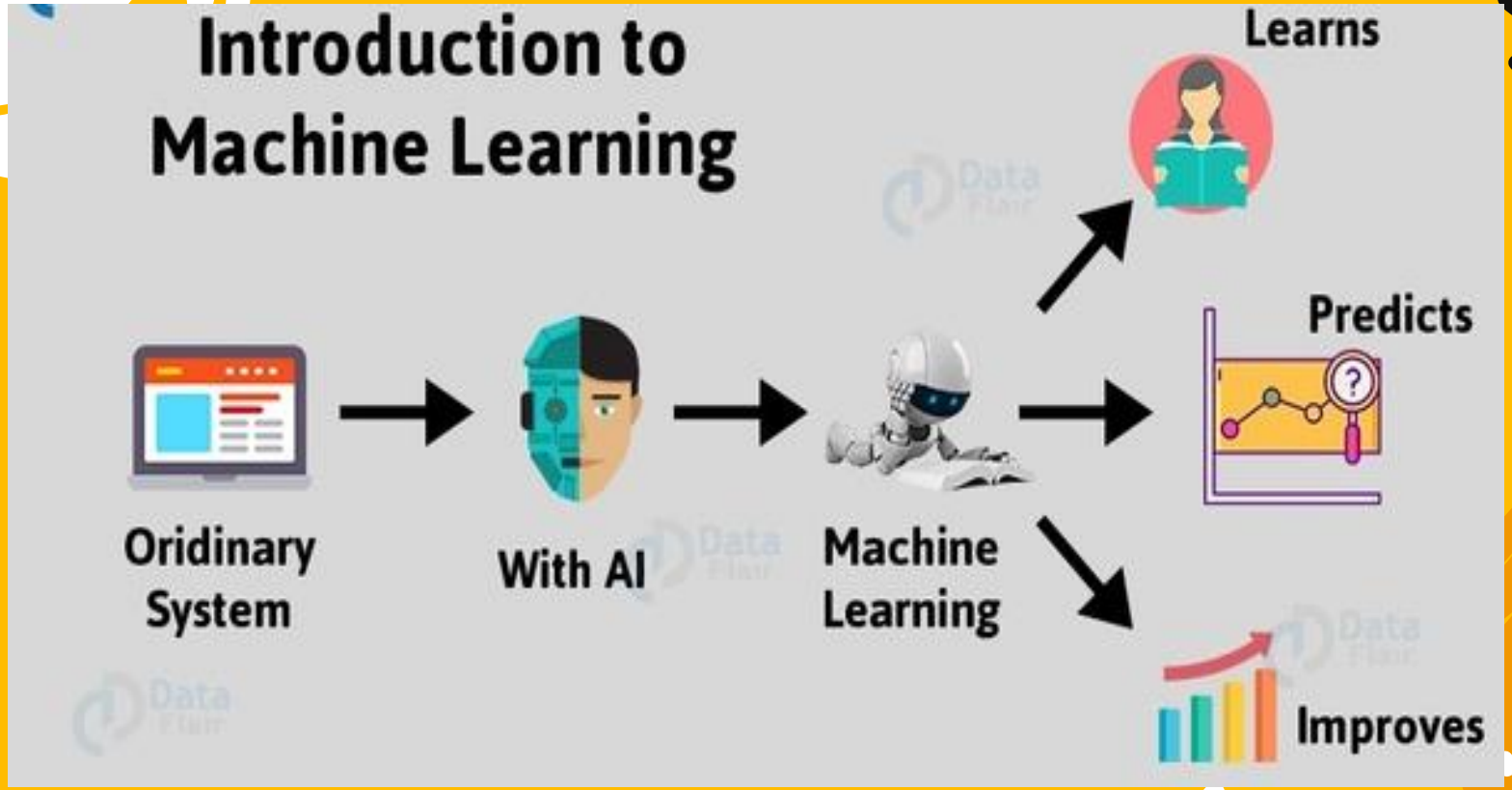
Model

New Data

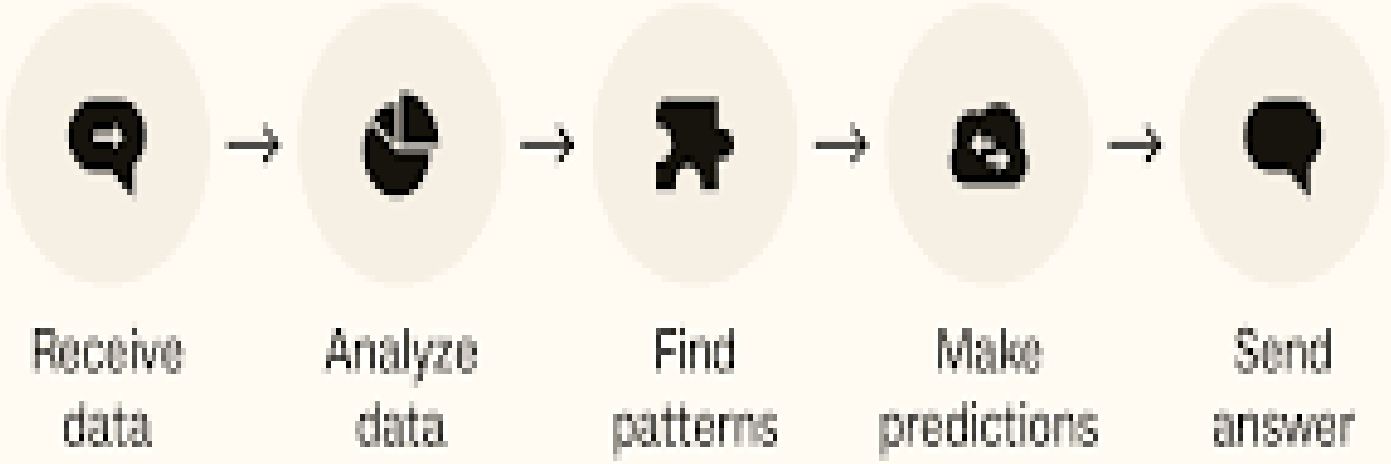
Prediction

New Data

Introduction to Machine Learning

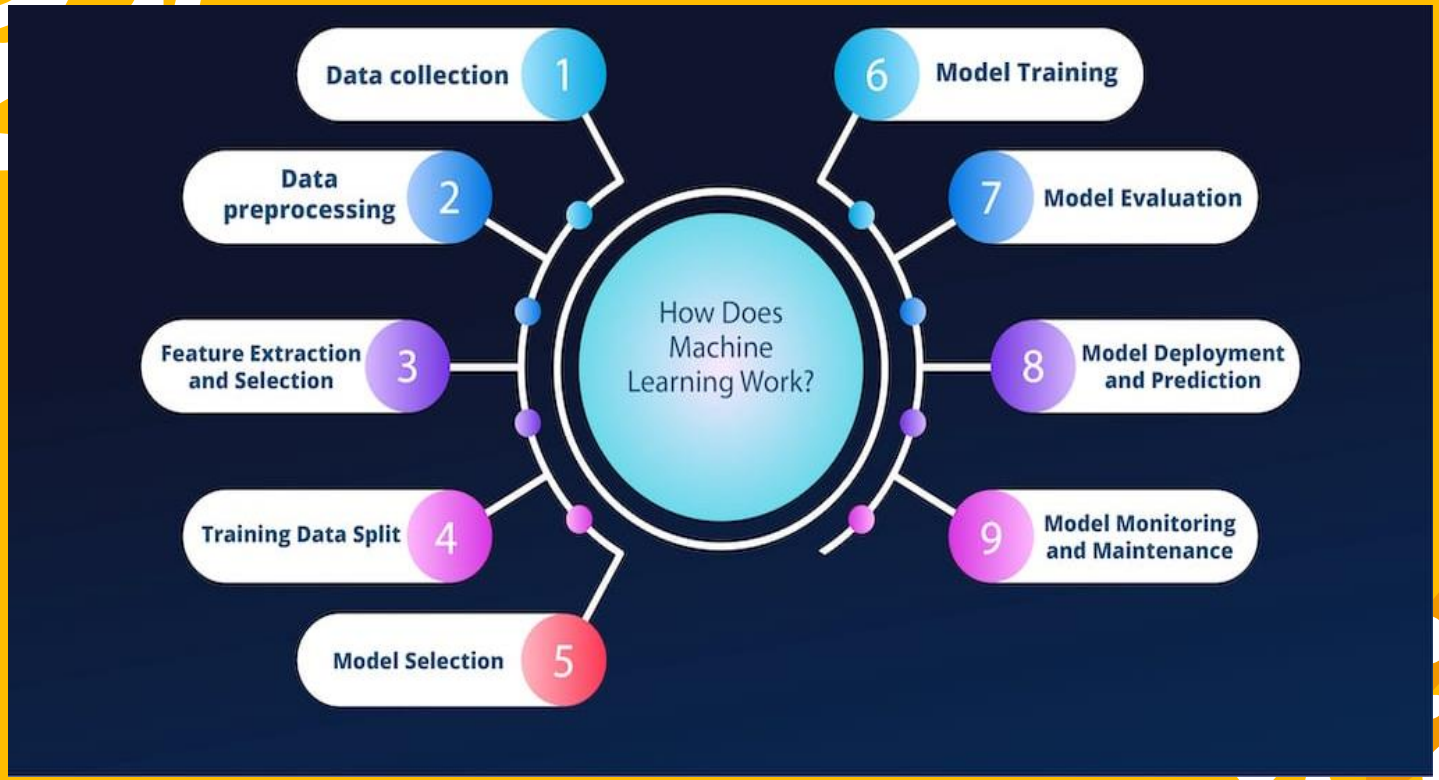


Machine Learning Process



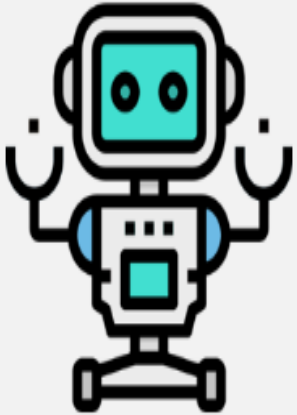
Machine Learning Workflow

How does Machine Learning Works?

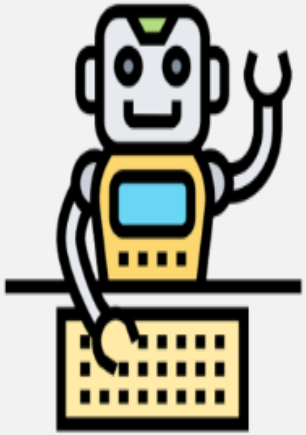


Types of Machine Learning

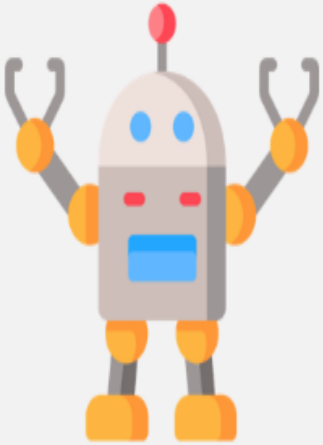
Supervised Learning



Unsupervised Learning



Reinforcement Learning



Knowledge Check

Which of the following is a supervised learning algorithm?

- ✗ a) K-means clustering
- ✗ b) Decision trees
- ✗ c) Principal Component Analysis (PCA)
- ✗ d) Apriori algorithm
- ✗ **Answer: Decision Trees**

Summary

- Reason to study ML
- Introduction to ML
- ML Process
- ML Workflow
- How does ML works?
- Types of ML

References

- https://stl.tech/blog/introduction-to-machine-learning-and-its-applications/

Thanks!

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