MACHINE LEARNING

By: Mr. VARUN SINGH

DEPARTMENT OF INFORMATION TECHNOLOGY

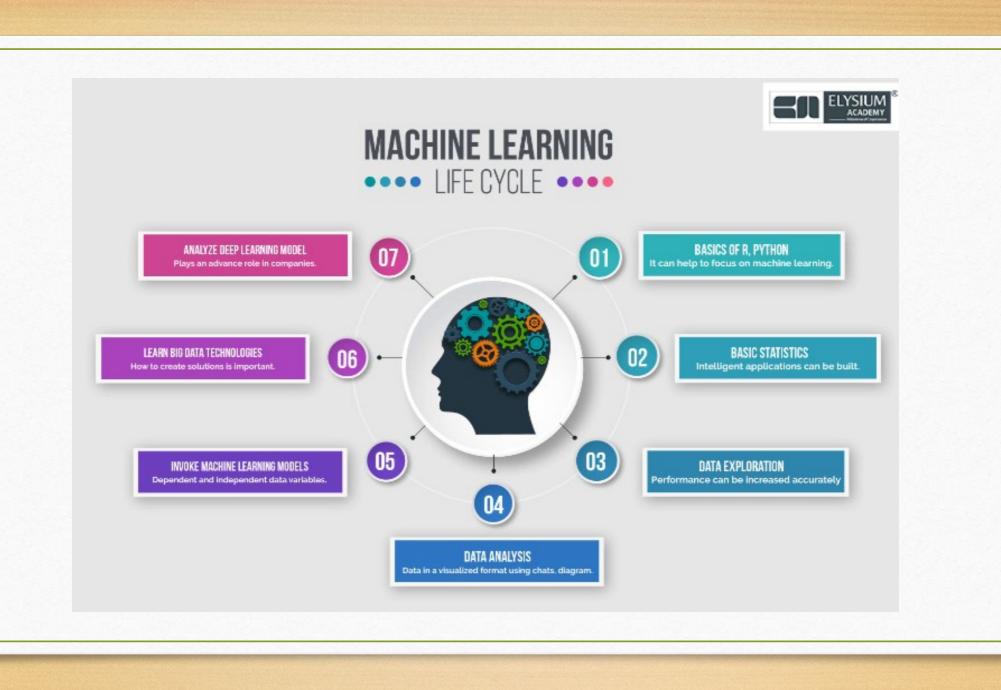
Agenda

- 1. What is Machine Learning?
- 2. Types of Machine Learning
- 3. Deep Learning
- 4. Machine Learning Applications
- 5. Challenges in Machine Learning

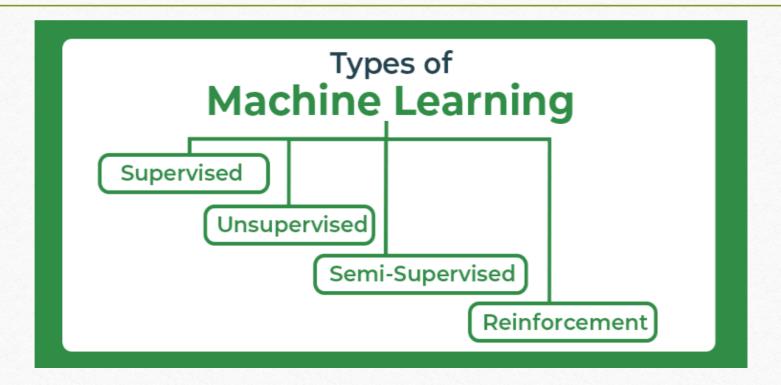


What is Machine Learning?

- Machine Learning is an application of Artificial Intelligence.
- It focuses on developing methods for computers to learn and improve their performance.
- Machine Learning is used to solve complex problems, which are difficult for a human.

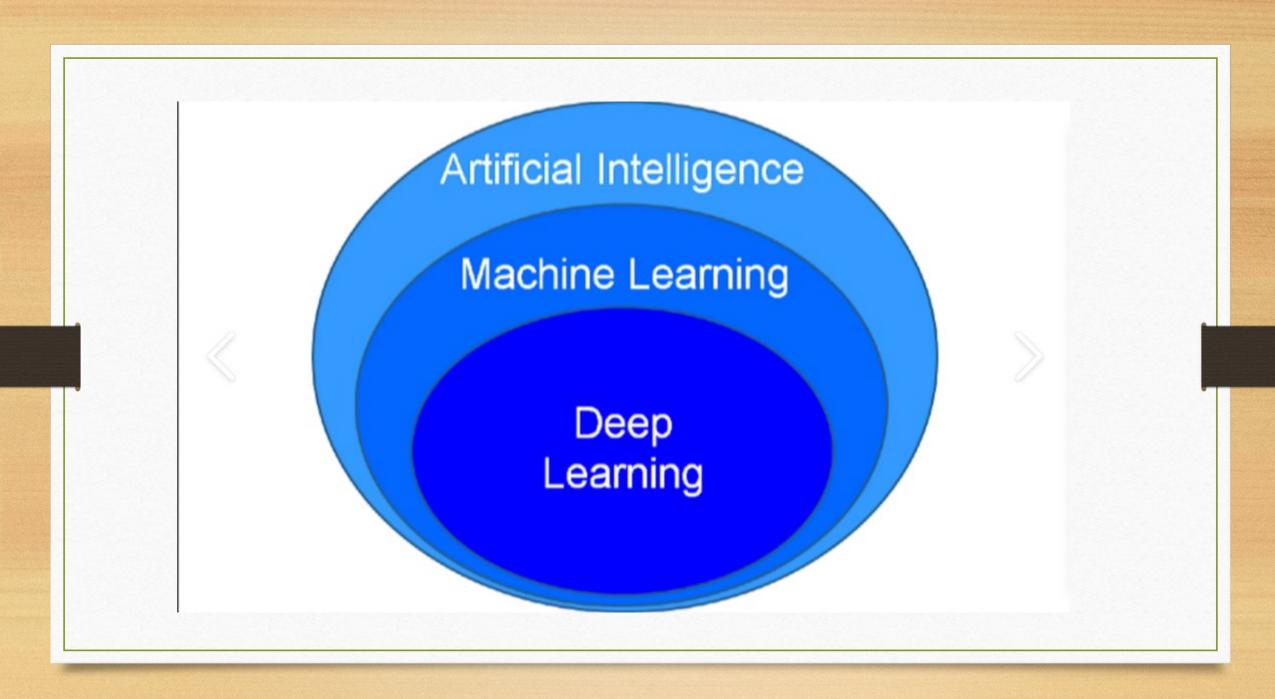


Types of Machine Learning



Deep Learning

- In deep learning, a computer model learns to perform classification tasks directly from images, text, or sound.
- It is based on artificial neural networks.
- It is capable of learning complex patterns and relationships within data



Machine Learning Applications

Real-world applications of machine learning:

- Healthcare
- Finance
- Autonomous vehicles
- Recommender systems
- Natural language processing

Challenges in Machine Learning

- Not enough training data.
- Poor Quality of data.
- Irrelevant features.
- Nonrepresentative training data.
- Overfitting and Underfitting.



Conclusion:

Machine Learning is totes powerful...

a bit complicated...

and often requires training and patience.

