SEMINAR
ON
MACHINE LEARNING

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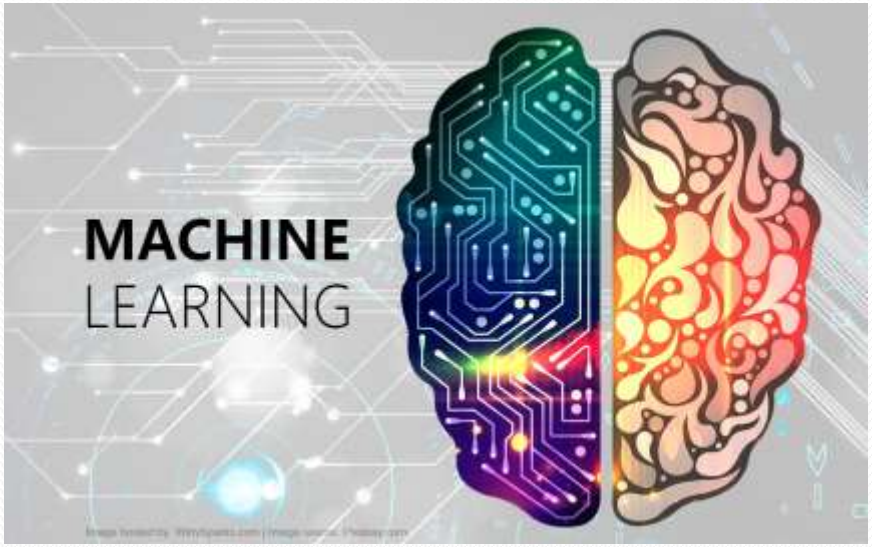
WHAT IS MACHINE LEARNING?

- Machine learning enables a machine to automatically learn from data, improve performance from experiences, and predict things without being explicitly programmed.



TYPES OF MACHINE LEARNING

1. Supervised Machine Learning
2. Unsupervised Machine Learning
3. Semi-Supervised Machine Learning
4. Reinforcement Learning

SUPERVISED MACHINE LEARNING

- Supervised learning is the types of machine learning in which machines are trained using well "labelled" training data, and on basis of that data, machines predict the output. The labelled data means some input data is already tagged with the correct output.

UNSUPERVISED MACHINE LEARNING

- Unsupervised learning is a type of machine learning in which models are trained using unlabeled dataset and are allowed to act on that data without any supervision.

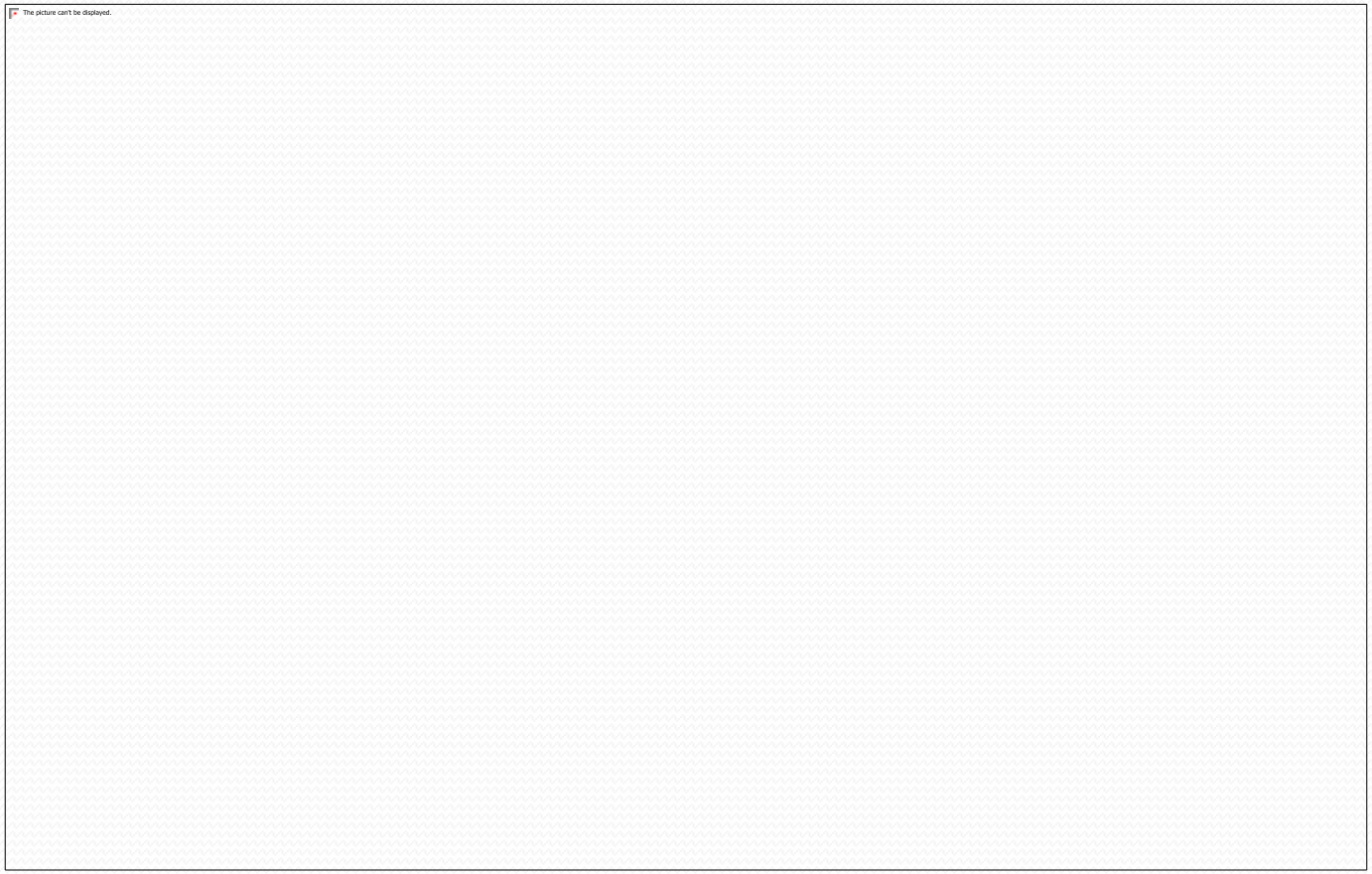
SEMI-SUPERVISED LEARNING

- Semi-Supervised learning is a type of Machine Learning algorithm that represents the intermediate ground between Supervised and Unsupervised learning algorithms. It uses the combination of labeled and unlabeled datasets during the training period.

REINFORCEMENT LEARNING

- Reinforcement learning is a type of machine learning method where an intelligent agent (computer program) interacts with the environment and learns to act within that.

ARCHITECTING THE MACHINE LEARNNG PROCESS



APPLICATION OF MACHINE LEARNING

1. IMAGE RECOGNITION
2. SPEECH RECOGNITION
3. EMAIL SPAM
4. CATCHING MALWARE
5. FRAUD DETECTION

ADVANTAGES OF MACHINE LEARNING

- **EASILY IDENTIFIES TRENDS AND PATTERS**
- **AUTOMATION**
- **CONTINUOUS IMPROVEMENT**
- **WIDE APPLICATION**

DISADVANTAGE OF BIO-METRIC SYSTEM

- **Data Acquisition**
- **Time and Resources**
- **Interpretation of Results**
- **High error-susceptibility**

CONCLUSION

Machine learning is a powerful tool for making predictions from data. However, it is important to remember that machine learning is only as good as the data that is used to train the algorithms. In order to make accurate predictions, it is important to use high-quality data that is representative of the real-world data that the algorithm will be used on.

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THANK YOU


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