CLASS 1 20-05-2021

**QUESTIONS**

👉What is Machine Learning?  
👉What is Data Science?  
👉What is Deep Learning?  
👉Why Python in Machine Learning?  
👉What is Google Colab?  
👉Describe Life Cycle of Data Science Project?  
👉What are the Different Types of Machine Learning?

**ANSWERS**

1. **Machine learning** is the study of computer algorithms that improve automatically through experience and by the use of data. It is seen as a part of artificial intelligence.

2. **Data science** is an interdisciplinary field that uses scientific methods, processes, algorithms and systems to extract knowledge and insights from structured and unstructured data, and apply knowledge and actionable insights from data across a broad range of application domains.

3.**Deep learning** is part of a broader family of machine learning methods based on artificial neural networks with representation learning. Learning can be supervised, semi-supervised or unsupervised.

4. Because python is a simple, portable and extensible language with large set of library. For ML sklearn library is used.

5. **Google Colab** is a product from Google. Colab allows anybody to write and execute arbitrary python code through the browser, and is especially well suited to machine learning, data analysis and education.

6.

1. Business Understanding  
2. Data Collection  
3. Data Preparation  
4. EDA  
5. Modeling  
6. Model Evaluation  
7. Model Deployment

7. Supervised, Unsupervised and Reinforcement learning