Machine Learning Interview Questions and Answers:

- How you can define Machine Learning?
- Sol :Machine learning is an application of artificial intelligence (AI) that provides systems the ability to automatically learn and improve from experience without being explicitly programmed. Machine learning focuses on the development of computer programs that can access data and use it to learn for themselves.
- What do you understand Labelled training dataset?
- Sol: Labeled data is a designation for pieces of data that have been tagged with one or more labels identifying certain properties or **characteristics**, or classifications or contained objects. Labels make that data specifically useful in certain types of machine learning known as supervised machine learning setups.
- What are 2 most common supervised ML tasks you have performed so far?
- Sol: **regression and classification**.
- What kind of Machine learning algorithm would you used to walk robot in various unknown area?
- Sol: **Reinforced Learning**
- What kind of ML algo you can use to segment your user into multiple groups
- Clustreing algorithm like: clustering algorithms as well such as DBSCAN, Agglomerative Clustering, K-mean**S**
- What type of learning algo realised on similarity measure to make a prediction?
- Learning algorithm that relies on a similarity measure to make predictions is **instance-based algorithm**.
- *What is an online learning system?*
- Sol: Online machine learning is a method of machine learning in which data becomes available in a sequential order and is used to update the best predictor for future data at each step.

- What is out of core learning?
- Sol: Out-of-core learning refers to **a set of algorithms working with data that cannot fit into the memory of a single computer**, but that can easily fit into some data storage such as a local hard disk or web repository.
- Can you name couple of ml challenges that you have faced?
- Sol: Below is the list of the challenges which i faced while doing ML projects:
- 1. Underfitting of Training Data.
  2. Overfitting of Training Data.
  3. Machine Learning is a Complex Process.
  4. Lack of Training Data.
- 5.Slow Implementation.
  6. Poor Quality of Data.