Machine learning-1   { Questions in notes form }.

1.) Machine learning is a term which is like a prototype build with such algorithm and some preprocessing that it can understand data sets & relation b/w parameters, there collinearity & difference by each other.

2.) Application of M.L. will be, Forecasting Predictions, Improvisations, & can Increase the productivity in a business.

3.) Labeled data set is used to train the ML models so that it can understand relations b/w parameters.

4.) Regression & classifications are two tasked that are super-vised.

5.) Unsupervised-Learning ← K-means clustering
    PCA
    Dimensionality reduction.
    Association rule learning.

6.) For Robot to walk on a terrain it should be reinforcement learning, where it can learn through Previous terrains about how to reactf or response.

7.] Classification algorithm is used to divide a data set in groups,

8.] spam detection supervised learning, provide some datasets with ml to model.

9.) online learning system as data comes in while you are training a model & data is not static?

10) out-of-core while train a ml model data is taken from some storage devices bcoz it is not stored in a single machine.

11) Learning algorithm that relies on a similarity measure to make predictions is instance based algorithm.

12.) Model Parameter → Parameters judged by algorithms.

Hyperparameter → These adjustable parameters to make model more productive.

13.) MI based algorithm search for the optimal value of parameters in a model that will give best outcome using cost function or etc ___.

14.) four main challanges of ML.
- overfitting
- underfitting
- lacking in data
- non representative data.

15.) if model performs well on training data but not able to generalize given data, bcoz of overfitting.

16.] Test set is imp in supervised learning so model can learn the features.

17.) Validation set of dataset is use to train AI.

18.) Dev-set is to rank. the models in term of their accuracy.

19.] if you use tuning on test data then model could behave as biased which affect on unseen data.