1. **What are the three stages to build the hypotheses or model in machine learning?.**

Ans: Build model, Test model and Deploy model

1. **What is the standard approach to supervised learning?**

Ans: Splitting the dataset into the training dataset and test dataset

1. **What is Training set and Test set?**

Ans: In Machine Learning, a training set is a dataset used to train a model. In training the model, specific features are picked out from the training set. These features are then incorporated into the model.The test set is a dataset used to measure how well the model performs at making predictions on that test set.If the prediction scores for the test set are unreasonable, we’ll have to make some adjustments to our modeland try again.

1. **What is the general principle of an ensemble method and what is bagging and boosting in ensemble method?**

Ans: The ensemble method is to combine the predictions of different models built with a given learning algorithm in order to improve accuracy over a single model. In bagging, the training stage is parallel and each model is built independently. In boosting, the training stage is sequential and each classifier is trained on data, taking into account the previous classifiers’ success.

1. **How can you avoid overfitting ?**

Ans: Cross-validation is a powerful preventative measure against overfitting.