**Solution Sheet**

1. Which model have you used for stock price prediction? Explain your model.

Model I used for prediction of stock price on 10th August is SVR because it is a classifier and it will not support continuous values in targets.SVR uses SVM(a classification algorithm), but applies it to predict real values rather than a class. SVR acknowledges the presence of non-linearity in the data and provides a proficient prediction model.It creates a line or a hyperplane and separates data into classes.

1. Which model have you used for Put-Call ratio Time series prediction? Explain your model.

Model I use for time series prediction is LSTM since we had a number of stock index’s and data of 5 previous days to predict the put call ratio on 16th August.It is an artificial recurrent neural network architecture used in the field of [deep learning](https://en.wikipedia.org/wiki/Deep_learning). Unlike standard [feed forward neural networks](https://en.wikipedia.org/wiki/Feedforward_neural_network), LSTM has feedback connections. It can not only process single data points (such as images), but also entire sequences of data (such as speech or video)