**Solution Sheet**

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

Random Forest Regression model was used for stock price prediction.

Random Search Cross Validation was used to select the best hyperparameters i.e (n\_estimators=200,criterion='mse',min\_samples\_split=5,min\_samples\_leaf=4,max\_features='auto',max\_depth=80,bootstrap=True)

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

Arima model was used for Put-Call ratio Time series prediction.

The values of Hyperparameters are :-

p (Trend autoregression order) = 1

d ( Trend difference order) = 0

q ( Trend moving average) =0