**Solution Sheet**

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

The given problem is to predict stock price given few attributes. Stock price is a discrete value attribute hence we have to use regression approach to solve this.

Issue : 1 missing values tackled with replacing null with mean of that attribute.

I have used basic approaches like linear regression, SVR, random forest regression out of those random forest regression resulted good results and in order to decrease Error I have used boosting technique called XGBoost which resulted better than random forest.

Since XGBoost uses multiple decision trees and ensembles it it has multiple experts predicting value hence resulting in good result.

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

the problem is to predict day16 value.i have used xgboost as model to predict day16 value

I have consider each day put-call ratio as a feature and predict the consequent day

Then for test considered last 5 day values for test and predict aug16 value.

By trail and error xgboost resulted in better results