

Lab 2
EC9630: Machine Learning
Chapter 4: Linear Regression
Duration: 3 Hour
Linear Regression

Build and evaluate a linear regression model.
Plot and comment on the results.

1. Load the protein tertiary structure dataset from UCI data repository.
2. Study the dataset.
3. Divide the dataset into train and test set.
4. Build a linear regression model on the train data.
5. Evaluate your model on the test data.
6. Plot your test target data against the predicted data.
7. Now use the random forest regressor to build a regression model.
8. Evaluate the model on test data and plot the predicted value as above.
9. Compare the results by different regression methods.