**Data mining** – Developed machine learning models in SAS Enterprise Miner and Weka using regression and decision tree algorithms to *analyze the effect of immigration on the US economy*.

***Links*** *–*

***Project report****:* <https://goo.gl/iEMYvR>

***Other data Mining exercises –***

<https://youtu.be/mhS_1gQWh0Y>

<https://youtu.be/JoALL-EuUoQ>

https://youtu.be/pqvtyM052PM

**Statistical Data mining** – Developed machine learning models in R using multiple linear regression, logistic regression, Naïve-Bayes, recursive partition tree and gradient boosting algorithms to *study the impact of oil price fluctuations and S&P500 index on Delta airline’s adjusted stock close price*. Developed a web application for visualization of data sets and models in Shiny-R.

***Links*** *–*

***Project report****:* <https://goo.gl/cYzw3C>

***Shiny R****:* <https://goo.gl/j7CKCO>

***Pdf version:***<https://goo.gl/0W986C>

**Predictive analysis on weight lifting exercises** – Developed machine learning models in R using recursive partition, random forest algorithms to *predict the category (out of 5) of the performed exercise based on the sensor data*. Explored a technique called ‘near zero variance’ to reduce the dimensionality of the dataset with minimal impact on the model accuracy.

***Links*** *–*

***Project report****:* <http://rpubs.com/awasthi/mlcoursera>

**Visualization using Tableau –** Developed tableau visualization for *analyzing the fluctuation in the value of USD along with the business industries stocks of Amazon, IBM, Yahoo, and Microsoft*.

The data for foreign exchange value of the dollar is downloaded from https://fred.stlouisfed.org. It has a column ‘value’ which is - a weighted average of the foreign exchange value of the U.S. dollar against the currencies of a broad group of major U.S. trading partners.

***Links*** *–*

***Project report****:* [https://goo.gl/H8sZG8](https://goo.gl/H8sZG8%20)