Ragunath’s Projects

1. DSC510: The Weather App
   1. The weather app was working. The project built through PyCharm and Python code. Hence there is a scope to modernize this App by using latest Python Libraries like pandas, matplotlib, etc.
2. DSC520: Avocado Price Predictions:
   1. I made a logistic/linear model to predict the correlation between various variables which impact the Avocado Price and identified the price prediction on each season. This was done using data from Kaggle. I used R Programming for this project and now I really see that I can improve this project.
3. DSC530: COVID19 EDA - Trends and Outbreak Prediction of Spread in USA:
   1. Final project for DSC530 that used data from WHO and .csv files. In this project, I have performed various studies, EDA and visualization. This project is up to data with applied all the Statistics functions like PDF, CDF and other probability functions.
4. DSC540: US Election prediction
   1. Data consolidated Kaggle and Twitter API. The model used was very basic approaches. After this semester, I have learnt about model performance and testing options. Hence this project work can be re-visited and applied all the new features and make this prediction work very well.
5. DSC 550: Customer Review Analysis and Recommendations
   1. I have done some Sentimental Analytics and NLTP techniques to perform the Customer Review and Recommendation of Product Analysis. I have performed EDA Very well and implemented all the necessary best practices. Data used from Amazon and Kaggle. Out of 6 models, SVM performed well and
6. DSC630: COVID 19 Prediction Analytics - ARIMA

Mini project to predict if customer’s review would be recommended or not. Used all the necessary model evaluation and performance metrics. Used ARIMA and SARIMAX to forecast the time series data. Most of them looked good. I came to know that external factors impact the forecasting, Hence I need to add vaccination and other details also into the model consideration. This need to be enhanced.

1. DSC630:

Image classification project based on the Deep Learning. Used Keras and Jupyter hub for this project and data comes from Kaggle. I wanted to try this project through computer vision in Microsoft tool to enhance this into next level.

1. DSC680: on going project - COVID 19 Prediction Analytics in vaccination and other impacts.

Data comes from WHO, CDC and NY Times. This Predictive Analytics, I would like to use how the vaccinations impact the covid cases and deaths. With that, what the prediction by end of this year and other predictions.

1. DSC 640 – Flight Safety Analysis and Presentation.