Case Study Project – MS PowerBI

Using the Project you identified in your Project Charter proposal, please setup an MS Power BI Server, and create reports related to your Project.

Your Project should accomplish the following:

1. Download daily/weekly or monthly updates for all your data sources in csv format.
2. Identify and merge the new data into a MS SQL Database making sure there aren’t duplicates in the database.
3. Automate the database update process using the MSSQL Database scheduler by running an MS SSIS package.
4. Automate the building of a Regression or Classification prediction model on a daily/weekly or monthly schedule.
5. Provide the ability to view prediction results “on-the-fly” using MS PowerBI.
6. Provide Descriptive Statistics of the data in MS Power BI
7. Create a Dashboard in MS PowerBI showing both:
   1. Prediction Model Results e.g. AUC/RSME etc
   2. Specific metrics of interest to the user e.g. APPLE stock price change YoY

Assignment 3 – MS Power BI (15pts)

Please create the following Data Analytics Reports:

1. A Dashboard showing the KPIs you identified in your Project Charter document (3pts)
2. Descriptive Statistics related to your data (3pts)
3. A prediction using the latest data (3pts)
4. The latest Prediction Model Results i.e. AUC/RSME (3pts)
5. A Report that will allow the user to filter (Slice/Dice) multidimensional data e.g. APPLE stock Maximum Price and Volume by month (3pts)

Helpful Links:

Running a python script in MS PowerBI: [Run Python scripts in Power BI Desktop - Power BI | Microsoft Learn](https://learn.microsoft.com/en-us/power-bi/connect-data/desktop-python-scripts)

Running an R script in MS PowerBI: [Run R scripts in Power BI Desktop - Power BI | Microsoft Learn](https://learn.microsoft.com/en-us/power-bi/connect-data/desktop-r-scripts)

Please upload a screenshot (png) of each Report page [1-5].