**Instructions For Running the Code**

*Software requirements*: Latest version of Anaconda and Jupyter Notebook to run and execute the code

Kindly follow the instructions below to successfully run the Jupyter Notebook and generate the final output

**Step 1:**

· Extract all the contents of the zipped file in one location.

· Ensure all the three datasets are stored as .csv

· Please ensure that the main file CapitalOneDataChallenge.ipynb and the “Airport\_Codes.csv” , “Tickets.csv” and “Flights.csv” data files are in the same location

**Step 2:**

· Run this command in your terminal before you launch the Jupyter Notebook. This installs the nbextension in jupyter notebook for codefolding along with table of contents.

conda install -c conda-forge jupyter\_contrib\_nbextensions

· Open the CapitalOneDataChallenge.ipynb and click on the nbextensions config under the edit tab.

· Enable the following configurations:

Graphical user interface, text, application

Description automatically generated

· Go back to the notebook. The file has been created in such a way that it automatically searches and installs the required packages

In case of any package related issues, please ensure that the below mentioned packages are installed:

* + - Pandas Version 1.2.4
    - Numpy Version 1.20.1
    - Regex Version as 2.2.1
    - Seaborn Version as 0.11.1
    - MissingNo Version 0.4.2
    - plotly.graph\_objects as go

The results can be viewed in Jupyter Notebook default window or rendered to an html to view in the web browser.

Each content and output can be viewed by clicking on the respective sections in the index.

The code by default is hidden but you can view it by clicking expand arrow next to each heading.