# Capstone: Analysis Rubric

**15-30 hours**

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| **Criteria** | **Meets Expectations** |
| Completion | * Student uploads Jupyter Notebook to GitHub or One Drive having clearly followed the structure of importing the associated libraries, the data file, data cleansing (if any), issues (should follow from Issue Tree) and the whole assignment has been completed in Python * Student has created at least **one** function in Python to automate part of their analysis * Student has used Matplotlib / Seaborn for their visualizations * All ‘Cells’ in the Jupyter Notebook fit under a respective ‘Issue’ of their issue tree |
| Process & Understanding | * Student is able to demonstrate a clear, logical approach to their analysis. Each issue explored should clearly relate back to the issues in their issue tree (i.e. Highlighting how students explore data with respect to the issues/hypotheses they have created) * Student has shown fluency in Python by creating functions to improve/assist automation of their analysis * Student has shown fluency in using Python’s Pandas libraries to manipulate data to suit their respective analysis needs * Student has been able to use Matplotlib and Seaborn libraries to create visualizations which clearly support their analysis * Student has synthesized the exploratory analysis into a few key visualizations which show the student’s mastery of distilling complex information into a series of high-level visuals |
| Presentation | For every graph that is shown in the Jupyter Notebook, all graphics clearly have:   1. Labeled X / Y Axes 2. Clear title summarising what the graphic is showing   The Jupyter Notebook should be presented in the Mark-Down structure that has been provided in the instruction guide with the format as follows:   1. Libraries Required 2. Import Dataset 3. Data Cleansing (If Any) 4. Issues/Hypotheses to Explore (Based off Issue Tree) 5. Insight |