Please submit a Github Repository with a Jupyter Notebook that contains the following items:

1.  Loading data into Pandas

2.  Writing an apply function that transforms a column

3.  A basic Data Visualization using Seaborn or Plotly library or Matplotlib

4.  Some type of Machine Learning technique on the data

5.  A script or Makefile that runs [https://github.com/computationalmodelling/nbval (Links to an external site.)Links to an external site.](https://github.com/computationalmodelling/nbval), and tests the notebook.  Please include output that shows it passes.

The grade will be pass/fail, and if you pass it can take the place of a quiz.  Grading will be on the lenient side and partial credit will be applied as long as you show your work.