HDS5210: Final

Your own Python project

What I’m expecting from the final in December

What the final looks like?

- The final is a project of your own design.
- It should combine what we've learned this semester into a single project.
- You are expected to follow good coding practices
- Documentation is required
- Your final needs to be delivered as a neatly formatted Jupyter notebook

- The final is due 12/16 11:59 PM
  or before you leave the country!
  NO LATE SUBMISSIONS WILL BE ALLOWED!

What your final project should look like:

- The final will be graded based on a 60-point scale using the rubric below.

Category	Maximum		Minimum
Data Access and Formats	5 points Uses data from at least two different sources: local file, internet, web service, relational database, AWS S3, etc; and formats: CSV, JSON, database, XML, Excel, etc	2 points Uses data from one 1 different source or 1 format	2 points Uses only 1 data source
Data Merging	5 points Data from multiple sources has to be joined together at least twice	2 points A single data join is done in the program	0 points No merges or joins are performed
Data Aggregation and Pivoting	5 points Data is aggregated or pivoted at least twice during the program	2 points Data is aggregated or pivoted once during the program	0 points No merges or aggregations or pivot tables
Data Transformation	5 points Some kind of field-level transformation is performed at least 5 times	2 points Two or more transformations	0 points No more transformations
Data Visualization	5 points The program creates 3 or more data visualizations	2 points The program creates fewer than 3 visualizations	0 points The program contains no visualizations
Problem Applicability	5 points The program serves a theoretical purpose described in documentation, that could potentially do something in healthcare or another industry of interest	2 points The solution doesn't show how the application could have an impact.	0 points The program focuses solely on the solution in technical terms and not the overall value being created.
Modularity / Style	15 points The code is broken up into various functions or classes to make testing and reuse easier	7 points Functions are used, but not consistently or efficiently	0 points Entire program is a single long file with commands
Documentation and Professionalism	15 points All functions are documented and notebook cells include annotations and explanations.	7 points The majority of code is undocumented and some explanation is provided.	0 pooints No documentation

Submitting Your Final

- Use Google Colab to submit your final project similar to what you've been doing in each week's assignments.
- Create a folder named `final` and make sure any files necessary for your final project are located there.
- After Saving to GitHub, make sure your work shows up in github in the correct folder. You will receive a 0 on the final if it isn't in subfolder named "final"
- If you need help, please contact me on Slack.