MSDA 607 Final Project

Deliverables Schedule

Deliverable	Date	Points
One Paragraph Proposal	Tuesday December 2 nd	25
Final Project	Sunday December 14 th	125
Final Project Presentation	Before or during Final Office Hours	50

Policy on Collaboration

You may work in a team on project design and your project conclusions. You'll need to write your own project code, and make your own project presentation. You may ask your team mates to review your code and your presentation, but your work here should be substantively your own.

Final Project Checklist

To receive full credit, you'll need to deliver on all of the items in the checklist below. Please read carefully through this checklist before you make your project proposal. You are (within these checklist constraints) strongly urged to limit scope and make the necessary simplifying assumptions so that you can deliver your work on time!

Proposal describes your motivation for performing this analysis.
Your project has a recognizable "data science workflow," such as the OSEMN workflow or Hadley Wickham's Grammar
of Data Science. [Example: First the data is acquired, then necessary transformations and clean-up are performed, then
the analysis and presentation work is performed]
Project includes data from at least two different types of data sources (e.g., two or more of these: relational, CSV,
Neo4J, web page, MongoDB, etc.)
Project includes at least one data transformation operation. [Examples: transforming from wide to long; converting
columns to date format]
Project includes at least one statistical analysis and at least one graphics that describes or validates your data.
Project includes at least one graphic that supports your conclusion(s).
Project includes at least one statistical analysis that supports your conclusion(s).
Project includes at least one feature that we did not cover in class! There are many examples: "I used ggmap; I created
a decision tree; I ranked the results; I created my presentation slides directly from R;"
Presentation. Was the presentation delivered in the allotted time (3 to 5 minutes)?
Presentation. Did you show (at least) one challenge you encountered in code and/or data, and what you did when you
encountered that challenge? If you didn't encounter any challenges, your assignment was clearly too easy for you!
Presentation. Did the audience come away with a clear understanding of your motivation for undertaking the project?
Presentation. Did the audience come away with a clear understanding of at least one insight you gained or conclusion
you reached or hypothesis you "confirmed" (rejected or failed to reject)?
Code and data. Have you delivered the submitted code and data where it is self-contained? Am I able to fully reproduce
your results with what you've delivered? You won't receive full credit if your code references data on your local
machine!
Code and data. Does all of the delivered code run without errors?
Code and data. Have you delivered your code and conclusions using a "reproducible research" tool such as RMarkdown.
Deadline management. Were your draft project proposal, project, and presentation delivered on time? Any part of the
project that is turned in late will receive a maximum grade of 80%. Please turn in your work on time!

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