

DSCI 510: Principles of Programming for Data Science

Name: Your Name

USC ID: Your USC ID

GitHub: Your GitHub Username

Final Project Report

This is a simple template for your final project report. Remember that this report alone counts towards 20% of the final score for the entire project, make sure you put in some effort to describe your project here.

Your final project report should be no less than 2 and no more than 5 pages including any images (e.g. of data visualizations) that you want to embed in the report. Please spend a decent amount of time on the report. Your report is the first file we will read. We will not know how great your project is if you don't explain it clearly and in detail.

1 Introduction

- (a) What is the name of your project?
- (b) Please write it as a research question and provide a short synopsis/description.
- (c) What is the research question(s) that you are trying to answer?

2 Data Collection

What type of data did you collect?

- (a) Specify exactly where data that you collected is coming from.
- (b) Describe the approach that you used for data collection.
- (c) How many different data sources did you use?
- (d) How much data did you collect in total? How many samples?
- (e) Describe what has been changed from your original plan as well as the challenges that you encountered and resolved.

3 Data Cleaning

- (a) Describe how and why you had to change the data before using it.
- (b) What kind of format was the data in when you collected it?
- (c) What kind of format did you use for the processed data in the end?
- (d) Did this process affect the data that you collected in any way, shape or form?

4 Data Analysis

What kind of analysis and visualizations did you do?

- (a) Which analysis technique(s) did you use? What are your findings?

5 Visualizations

- (a) Describe the type of data visualizations that you used.
- (b) Explain the setup and meaning of each element in the visualization.

6 Conclusion

- (a) Describe your observations and conclusion.
- (b) Describe the impact of your findings.

7 Future Work

- (a) Given more time, what would you do in order to further improve your project?
- (b) Would you use the same data sources next time? Why yes or why not?