

Datathon Group 3

Johnathan Salamanca, Mario Cerón,
Carol Martinez, Javier Cocunubo, Jairo Nino, Alvaro Munoz

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Abstract

In this document ...

1 Introduction

You are asked to explore the provided data and based on this, pose a question which you believe would be interesting to answer. You and your team will then write a report detailing why you believe this question is important and how you went about answering it.

2 Topic Question

What is the question that your team set out to answer? How did you come about to choosing this question, and why is it an important question?

3 Data Wrangling and Data Cleaning

Do you conduct proper quality control and handle common error types? How do you transform the datasets to better use them together? What sorts of feature engineering do you perform?

4 Exploratory Data Analysis

What hypothesis tests and ad-hoc studies did you perform, and how did you interpret the results of these? What patterns did you notice, and how did you use these to make subsequent decisions?

5 Statistical Analysis and Modeling

What assumptions and choices did your team make, and what was your justification for them? How did you perform feature selection? If you built models, how did you analyze their performance, and what shortcomings do they exhibit? If you constructed visualizations and/or conducted statistical tests, what was the motivation behind the particular ones you built?

6 Results Interpretation and Conclusions

What were your team's key findings, and what is their significance? Are your conclusions precise and nuanced, as opposed to blanket (over)generalizations? You should use summary statistics and visualizations to help explain your thoughts.