Your Capstone Project Title

By

Robert Knox, Adetola Adedeji, Xiaolei Zhang

Supervisor: Arnab Bose

A Capstone Project

Submitted to the University of Chicago in partial fulfillment
of the requirements for the degree of

Master of Science in Analytics

Graham School of Continuing Liberal and Professional Studies

Month, Year

The Capstone Project committee for Robert Knox, Adetola Adedeji, Xiaolei Zhang
Certifies that this is the approved version of the following capstone project report:

Your Capstone Project Title

Approved by Supervising Committee:

Arnab Bose	Dr. Sema Barlas

Abstract

Maximum 40 to 50 words. An abstract is a concise description of your project. It should include very brief description of the problem, purpose, method, key results, and conclusions. Note you may want to write the abstract after writing the report.

Keywords: Include 6 to 10 keywords on the same page as the abstract. Select keywords that would help a researcher retrieve your report.

NOTE: Do not use "#" or "##" symbols to start new sections in the abstract section, as one typically would in other r markdown documents. Doing so will result in generating a table of contents entry *prior* to the Introduction, which is not desirable.

Executive Summary

The executive summary is a maximum one page, double spaced summary of your report aimed at informing someone, who does not read the entire report, about your project. The executive summary is an extended version of the abstract with more space allocated to the key findings of the project and the conclusions and recommendations. You may want to write this section after writing the report.

Second Paragraph.

Third Paragraph.

NOTE: Like the abstract, do not use "#" or "##" symbols to start new sections in the executive summary section. Doing so will result in generating a table table of contents entry *prior* to the Introduction, which is not desirable.

Table of Contents

List of Figures

List of Tables

Preface

A preface is OPTIONAL. Use a preface if you want to explain your interest in the report topic and include anything about your experience that readers should keep in mind. If you would rather not include a preface, comment it out or delete it from the YAML header of the index.Rmd file.

Chapter 1

phoenixdown::capstone_gitbook: default

Placeholder

Problem Statement

Research Purpose

Variables and Scope

Writing Tips

R Markdown Basics

Lists

Line breaks

Background

Placeholder

Code chunks

Linked tables and List of Tables

More than R: Other Languages

Including plots

R Markdown Tables, Graphics, References, and Labels

Inline code

Figures

Footnotes and Endnotes

Methodology

Placeholder

Data

Descriptive analyses

Modeling Framework

Math and Science notation

Math Examples

Additional R Markdown and bookdown resources

Findings

Should be organized as follows:

- Results of descriptive analyses
- Modeling results
- Results of model performance and validation

Results of descriptive analyses

1.0.1 Distribution of Quantity

Order quantity is typically less than 50,000, with a few orders significantly higher. Specifically, most order quantity are less than 30,000. See @ref(fig:Quantity_Histogram) below for histogram on the quantity distribution.

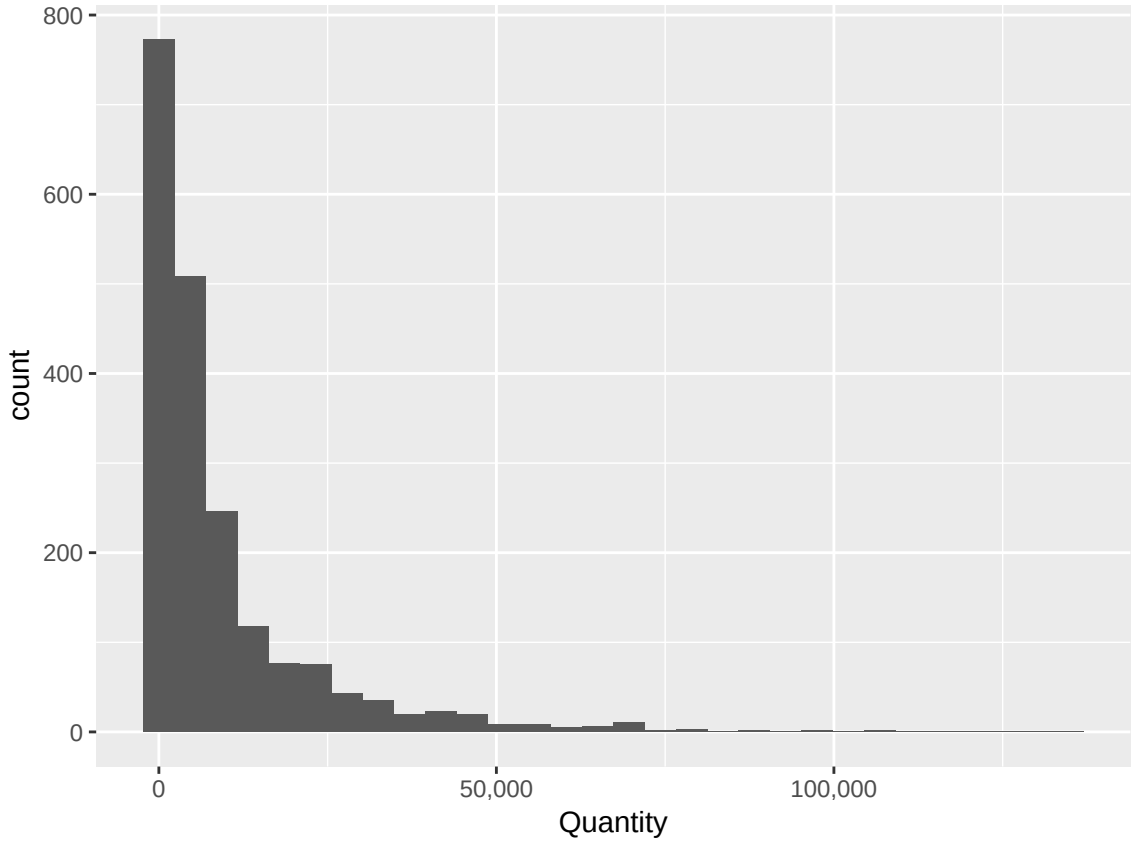

Figure 1.1: (#fig:Quantity_Histogram)Histogram of Quantity

Figure .

Modeling results

First, use a `t.test()` to test *if* dosage leads to growth of incisor length. From the results below, it appears every test rejects the null hypothesis.

```
#kable(testAgg, digit = 7, align = "r", caption = "t-test results",
#      format = "latex", longtable = TRUE)
```

Table **??**

Results of model performance and validation

Next, subset the `ToothGrowth` data into seperate data sets defined by supplement dose of 0.5, 1, and 2 mg. This allow us to controlling for dose increases of *economic* significance.

Subset tooth data into a separate `data.frame` for each dosage level. Then Execute the `t.test()` function for the dosage of 0.5 mg and display the results.

Conclusion

This section includes a concise summary of the findings. Your summary might be organized by the research objectives or hypotheses. Make sure you address the extent to which research objectives are achieved, and if they are not achieved, explain why. Make sure to interpret your findings in a way that acknowledges the limitations of the research. That is, do not extrapolate the insights derived from your research to situations you have not examined.

While increasing dosage leads to larger incisor length, the choice of delivery mechanism between Orange Juice and Vitamin C does not seem to make a difference. However, at very low levels, Orange Juice appears more effective, displaying higher average growth.

Recommendations

Includes guidelines as to ways in which your results should or could be used in practice. You may discuss other uses of your results, if there are any. The ways to extend your analysis and the benefits of doing so might be included in this section as well.

Appendix A

The First Appendix

This first appendix includes all of the R chunks of code that were hidden throughout the document (using the `include = FALSE` chunk tag) to help with readibility and/or setup.

In section 1:

In section 1:

Appendix B

A Second Appendix, for example

References

Placeholder