Proposal

STA 210 - Project

Ginger and Stats - Aimy Wen, Rakshita Ramakrisna, Nathan Nguyen, Bryan Pan

```
library(tidyverse)
library(tidymodels)
library(kableExtra)

chocolate <- read_csv("../data/chocolate.csv")

glimpse(chocolate)
```

```
Rows: 2,530
Columns: 11
$ ...1                             <dbl> 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12~
$ ref                              <dbl> 2454, 2458, 2454, 2542, 2546, 2546, 2~
$ company_manufacturer             <chr> "5150", "5150", "5150", "5150", "5150~
$ company_location                 <chr> "U.S.A.", "U.S.A.", "U.S.A.", "U.S.A.~
$ review_date                      <dbl> 2019, 2019, 2019, 2021, 2021, 2021, 2~
$ country_of_bean_origin           <chr> "Tanzania", "Dominican Republic", "Ma~
$ specific_bean_origin_or_bar_name <chr> "Kokoa Kamili, batch 1", "Zorzal, bat~
$ cocoa_percent                    <chr> "76%", "76%", "76%", "68%", "72%", "8~
$ ingredients                      <chr> "3- B,S,C", "3- B,S,C", "3- B,S,C", "~
$ most_memorable_characteristics   <chr> "rich cocoa, fatty, bready", "cocoa, ~
$ rating                           <dbl> 3.25, 3.50, 3.75, 3.00, 3.00, 3.25, 3~
```

Introduction

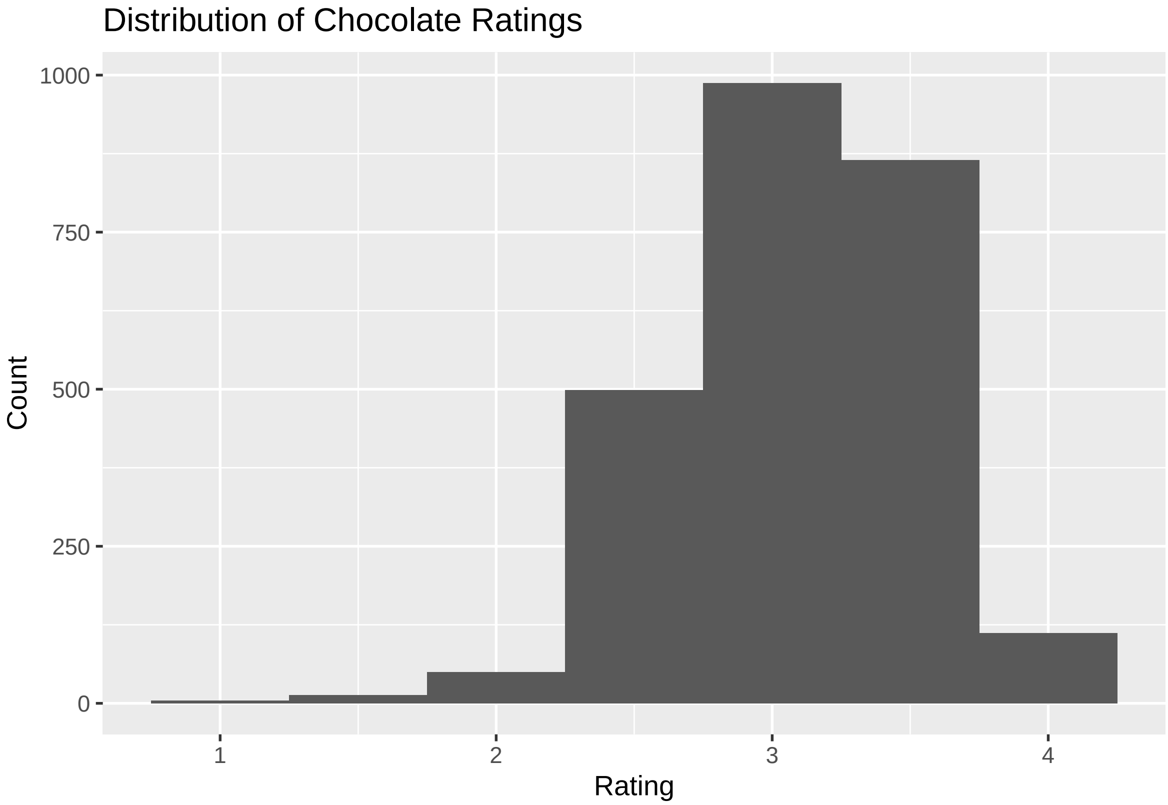
…

Data description

…

Analysis approach

```
ggplot(data = chocolate, mapping = aes(x = rating)) +
  geom_histogram(binwidth = .5) +
  labs(
  title = "Distribution of Chocolate Ratings",
  x = "Rating",
  y = "Count"
)
```



```
summary_stats <- chocolate %>%
  summarize(
    mean_rating = mean(rating),
    sd_rating = sd(rating),
    median_rating = median(rating),
    iqr_rating = IQR(rating)
  )
```

```
summary_stats %>%
  kable()
```

mean_rating	sd_rating	median_rating	iqr_rating
3.196344	0.4453213	3.25	0.5

…

Data dictionary

The data dictionary can be found here.