

# Final Project

Due Wednesday, December 3, 11:59 PM

Danielle, Beckett, and Alexia

## Use of AI tools

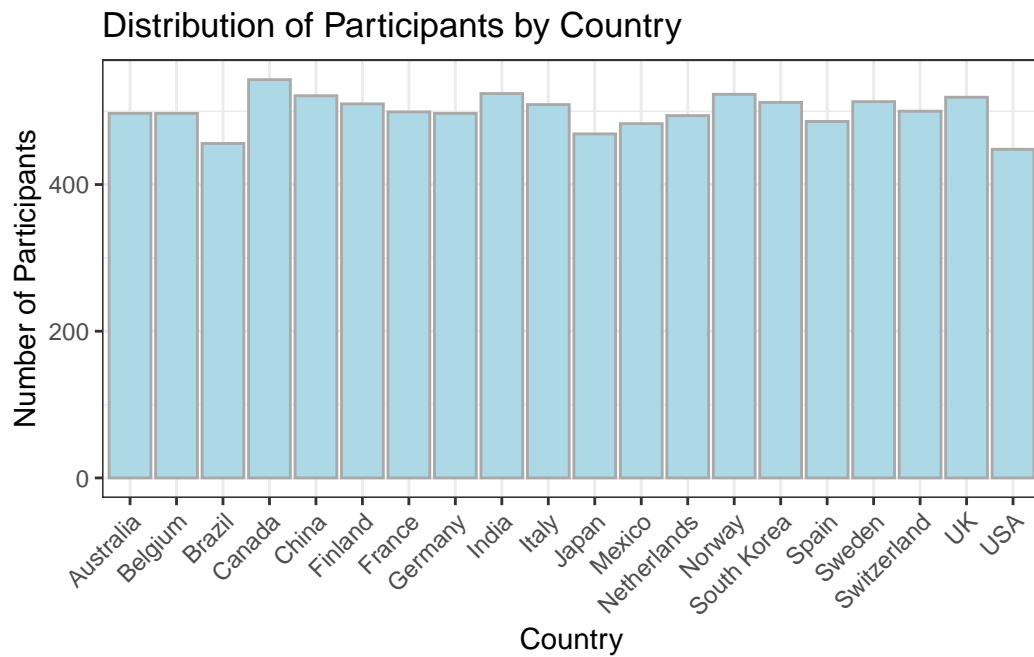
I did not use AI in the completion of this assignment.

## Loading Libraries/Dataset

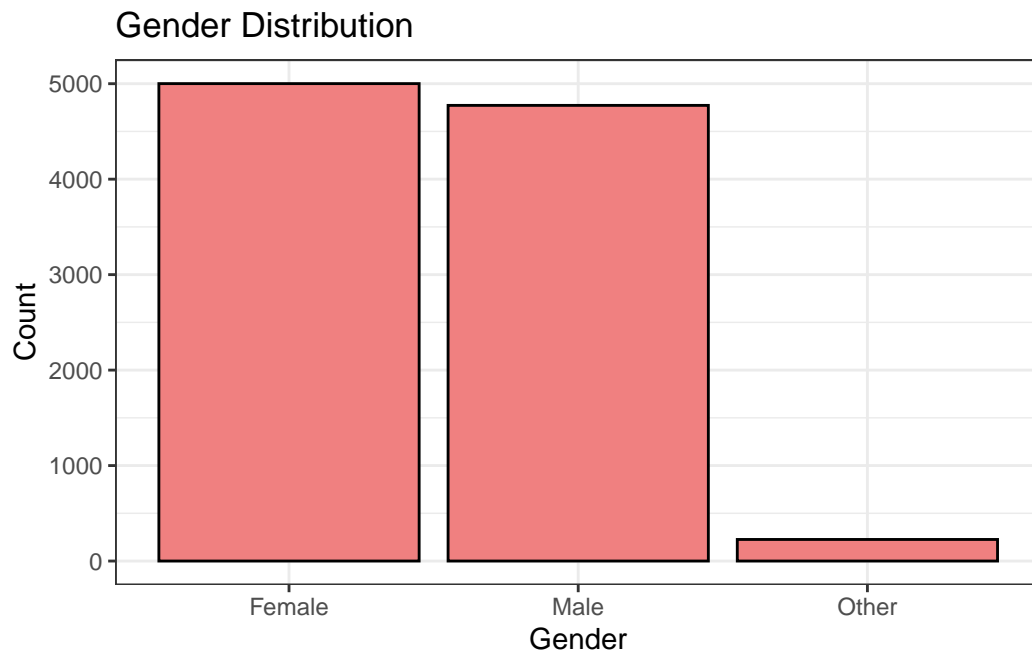
## Visualizations of Patients' Demographic

```
# m <- lm(Sleep_Hours ~ ., data = data)

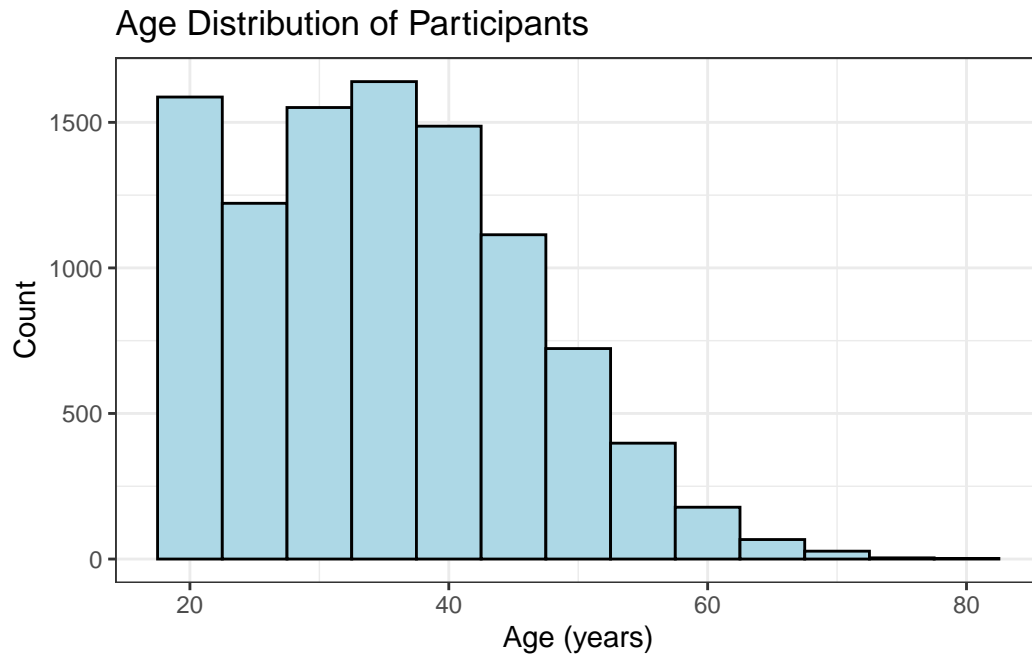
# Distribution of participants by country
ggplot(data, aes(x = Country)) +
  geom_bar(color = "darkgrey", fill = "lightblue") +
  labs(
    x = "Country",
    y = "Number of Participants",
    title = "Distribution of Participants by Country"
  ) +
  theme_bw() +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```



```
# gender distribution
ggplot(data, aes(x = Gender)) +
  geom_bar(fill = "lightcoral", color = "black") +
  labs(title = "Gender Distribution", y = "Count", x = "Gender") +
  theme_bw()
```



```
# age distribution
ggplot(data, aes(x = Age)) +
  geom_histogram(binwidth = 5, fill = "lightblue", color = "black") +
  labs(title = "Age Distribution of Participants", x = "Age (years)", y = "Count") +
  theme_bw()
```



### Visualizations of Coffee Consumption

```
# Coffee Intake Distribution
ggplot(data, aes(x = Coffee_Intake)) +
  geom_histogram(binwidth = 0.5, fill = "lightsteelblue1", color = "black") +
  labs(title = "Distribution of Daily Coffee Intake", x = "Cups per Day", y = "Count") +
  theme_bw()
```

