

Exploratory Data Analysis - Policy and Employment

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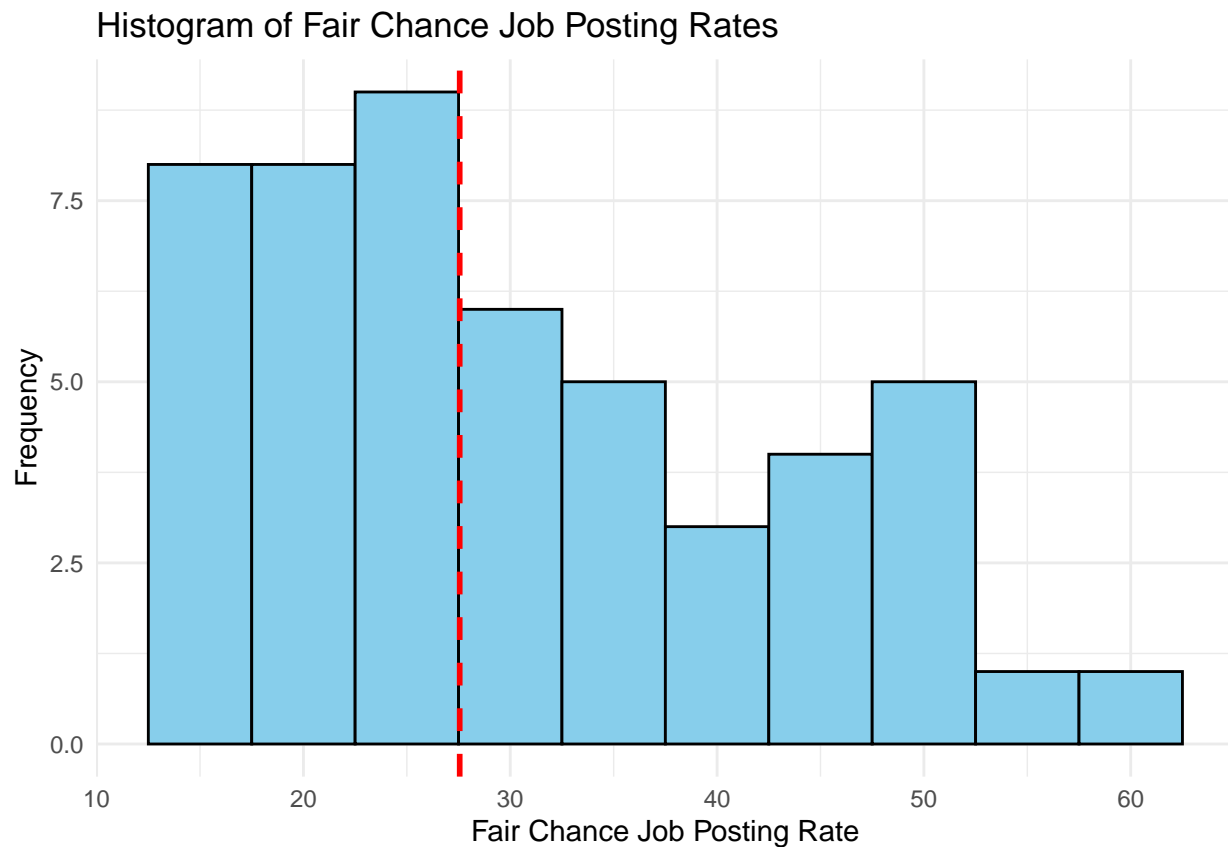
```
library(ggplot2)

# Set parameter to overwrite plots
overwrite_plots = FALSE

# Read in the data
regression_data <- read.csv("../Controls/regression.csv")
employment_data <- read.csv("../Employment/Indeed/indeed-retail-foodservice-fairchance.csv")
control_data <- read.csv("../Controls/control_indices.csv")
```

Histogram of Fair Chance Job Posting Rates

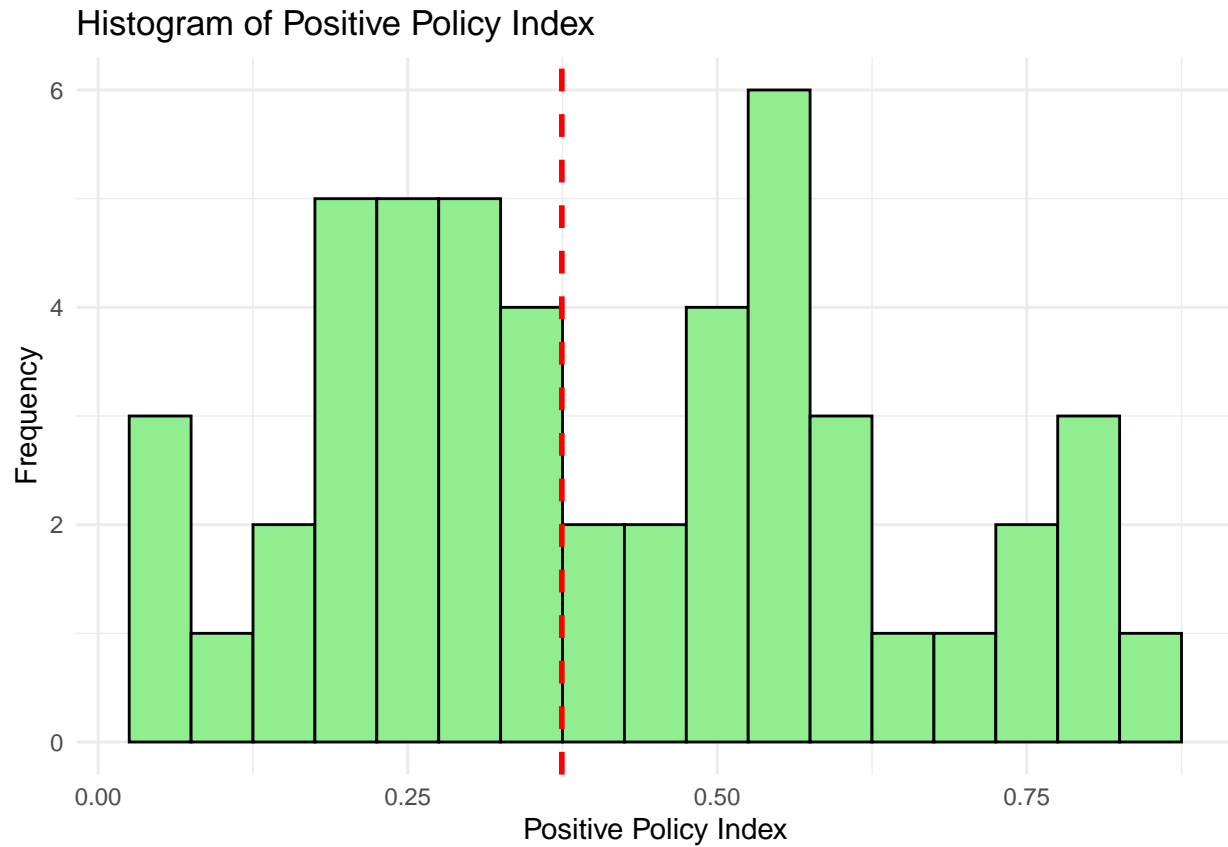
```
ggplot(employment_data, aes(x = fair_chance_rate)) +
  geom_histogram(binwidth = 5, fill = "skyblue", color = "black") +
  geom_vline(aes(xintercept = median(fair_chance_rate)), color = "red", linetype = "dashed", linewidth = 2) +
  labs(
    title = "Histogram of Fair Chance Job Posting Rates",
    x = "Fair Chance Job Posting Rate",
    y = "Frequency"
  ) +
  theme_minimal()
```



Histogram of Positive Policy Index

```
ggplot(regression_data, aes(x = tot_pos_index)) +
  geom_histogram(binwidth = 0.05, fill = "lightgreen", color = "black") +
  geom_vline(aes(xintercept = median(tot_pos_index)), color = "red", linetype = "dashed", size = 1) +
  labs(
    title = "Histogram of Positive Policy Index",
    x = "Positive Policy Index",
    y = "Frequency"
  ) +
  theme_minimal()
```

```
## Warning: Using `size` aesthetic for lines was deprecated in ggplot2 3.4.0.
## i Please use `linewidth` instead.
## This warning is displayed once every 8 hours.
## Call `lifecycle::last_lifecycle_warnings()` to see where this warning was
## generated.
```



Histogram of Collateral Consequences Index

```
ggplot(regression_data, aes(x = neg_combo_index)) +
  geom_histogram(binwidth = 50, fill = "orange", color = "black") +
  geom_vline(aes(xintercept = median(neg_combo_index)), color = "red", linetype = "dashed", size = 1) +
  labs(
    title = "Histogram of Collateral Consequences Index",
    x = "Collateral Consequences Index",
    y = "Frequency"
  ) +
  theme_minimal()
```

