Stock Returns Analysis

Your Name

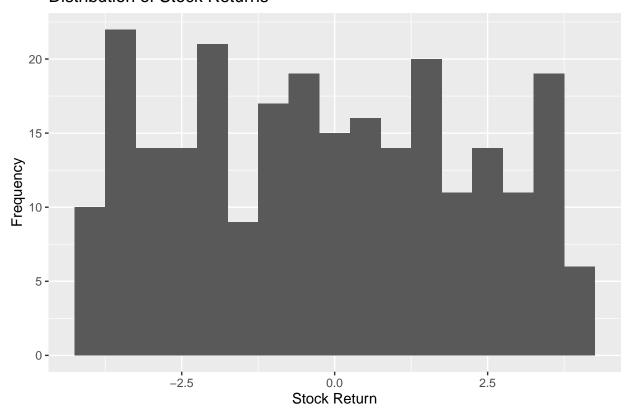
2025-03-02

```
library(ggplot2)
library(dplyr)
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
      filter, lag
## The following objects are masked from 'package:base':
##
##
      intersect, setdiff, setequal, union
# Read in the data with proper column names
data <- read.csv("data1.csv", stringsAsFactors = FALSE)</pre>
# Let's check the structure of the data
str(data)
## 'data.frame':
                   252 obs. of 4 variables:
## $ Stock.Return: num -0.39 2.25 1.66 -0.94 1.08 1.6 1.11 -1.85 2.5 3.83 ...
## $ Strategy.A : int 000001000...
## $ Strategy.B : int 0000101011...
## $ Strategy.C : int 1 1 1 1 1 1 1 1 1 ...
# View the first few rows
head(data)
    Stock.Return Strategy.A Strategy.B Strategy.C
## 1
          -0.39
                          0
## 2
           2.25
                         0
                                    0
                                               1
## 3
           1.66
                        0
                                   0
                                               1
## 4
           -0.94
                        0
                                   0
                                               1
## 5
           1.08
                         0
                                    1
                                               1
## 6
           1.60
                                               1
```

Basic summary statistics summary(data)

```
##
    Stock.Return
                       Strategy.A
                                        Strategy.B
                                                        Strategy.C
##
  Min.
         :-3.9400
                   Min. :0.00000
                                      Min. :0.0000
                                                            :0.000
                                                      Min.
   1st Qu.:-2.1825
                    1st Qu.:0.00000
                                      1st Qu.:0.0000
                                                      1st Qu.:1.000
## Median :-0.2600
                                      Median :0.0000
                    Median :0.00000
                                                      Median :1.000
## Mean :-0.1585
                    Mean :0.09524
                                      Mean :0.4643
                                                      Mean :0.869
                    3rd Qu.:0.00000
                                      3rd Qu.:1.0000
##
  3rd Qu.: 1.6900
                                                      3rd Qu.:1.000
## Max.
          : 3.9300
                    Max.
                           :1.00000
                                      Max.
                                            :1.0000
                                                      Max.
                                                             :1.000
```

Distribution of Stock Returns



New R chunk for additional analysis

```
# Example of additional analysis
# Calculate mean and median of Stock.Return
mean_return <- mean(data$Stock.Return, na.rm = TRUE)
median_return <- median(data$Stock.Return, na.rm = TRUE)

# Print the results
mean_return

## [1] -0.1585317

median_return</pre>
```