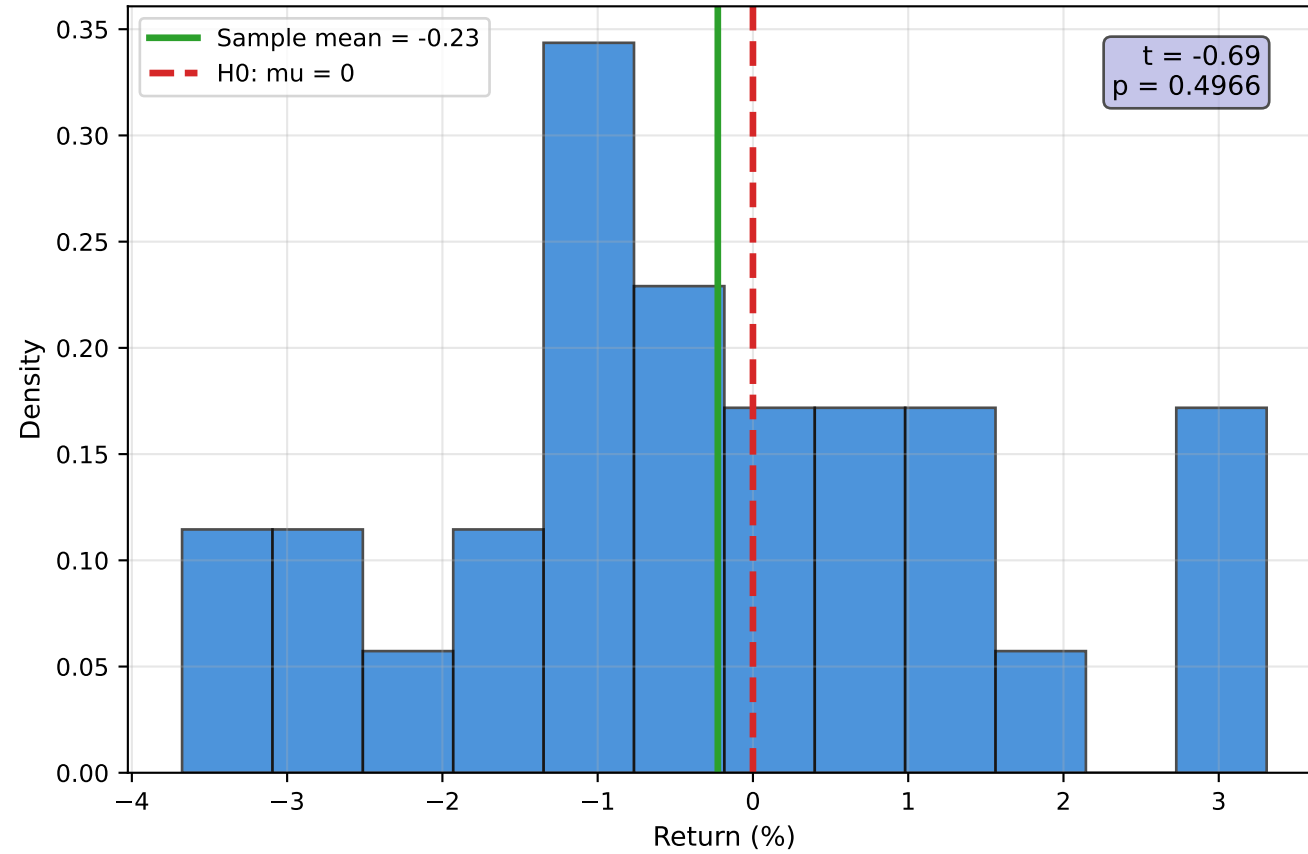
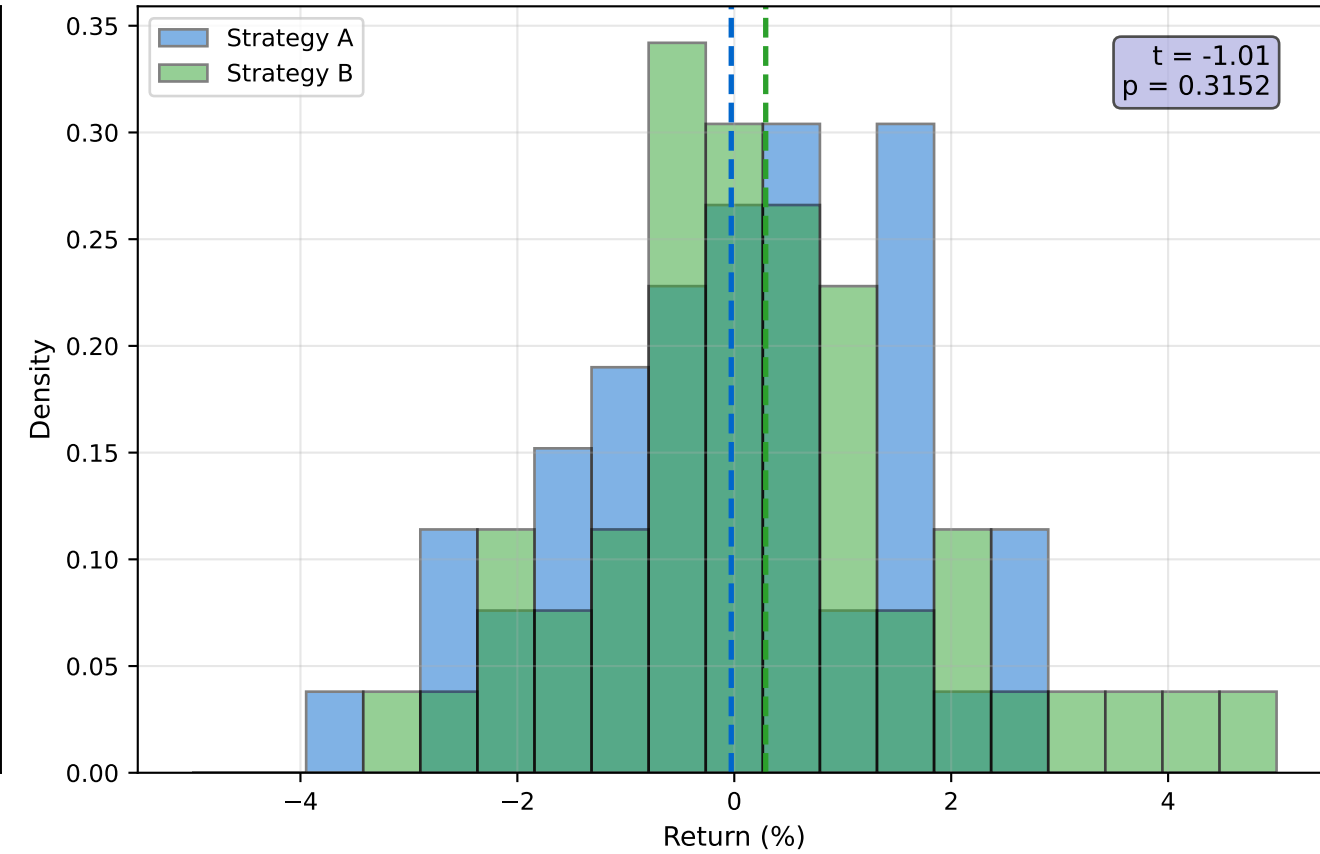


T-Tests: Comparing Means

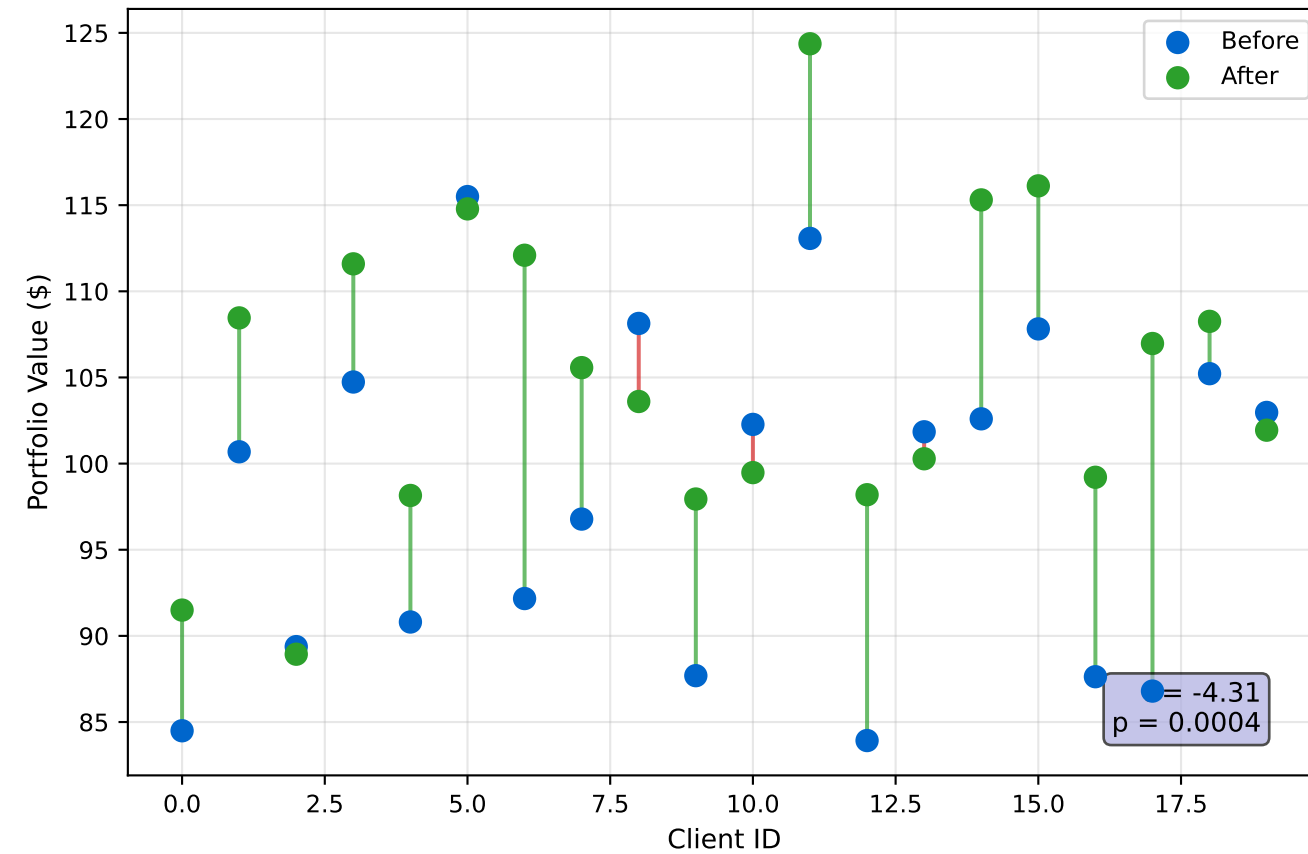
One-Sample T-Test: Is mean != 0?



Two-Sample T-Test: Are means different?



Paired T-Test: Before vs After



T-Test Summary

One-Sample: `stats.ttest_1samp(sample, mu0)`
Compare sample mean to known value

Two-Sample: `stats.ttest_ind(sample1, sample2)`
Compare means of two groups

Paired: `stats.ttest_rel(before, after)`
Compare paired observations

Welch: `stats.ttest_ind(..., equal_var=False)`
Unequal variances

Assumptions: Normal distribution (or large $n > 30$)

For non-normal: use Mann-Whitney U or Wilcoxon tests