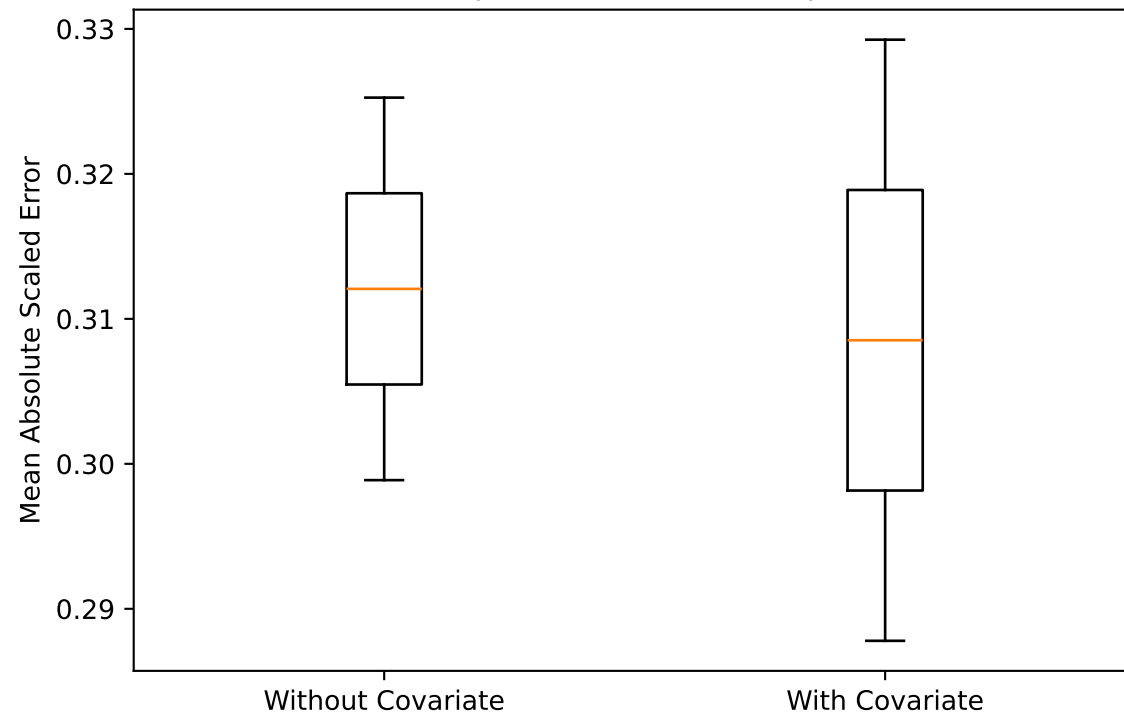
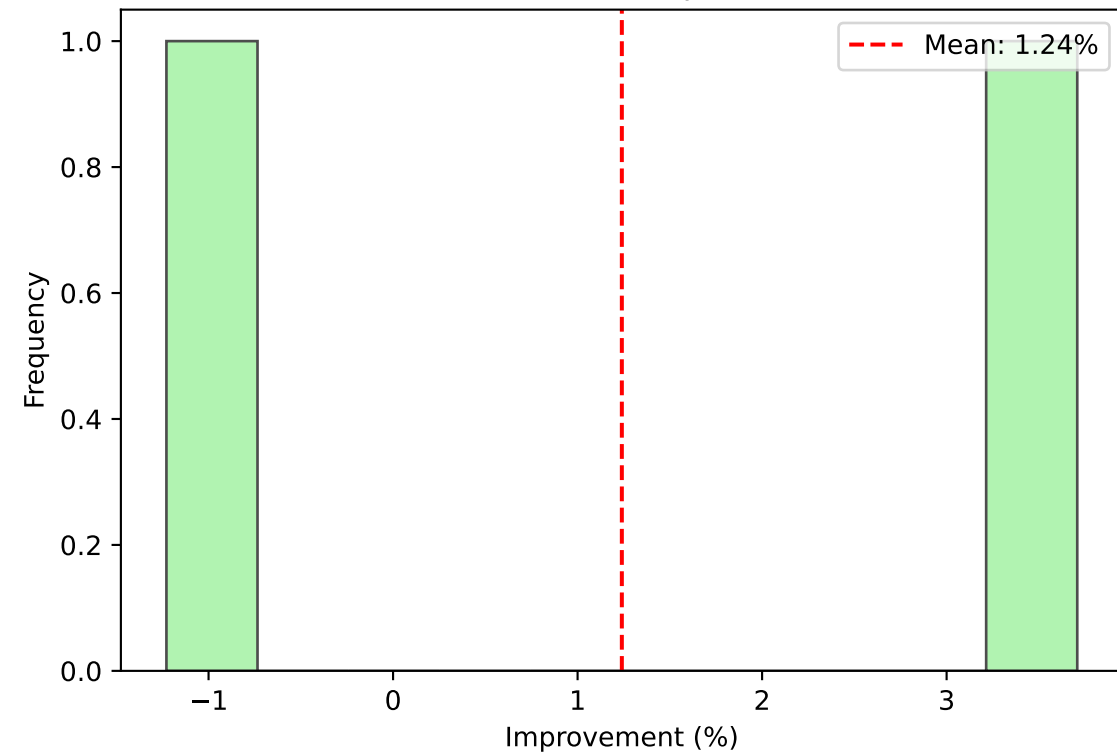


Covariate Study Summary: Pulses

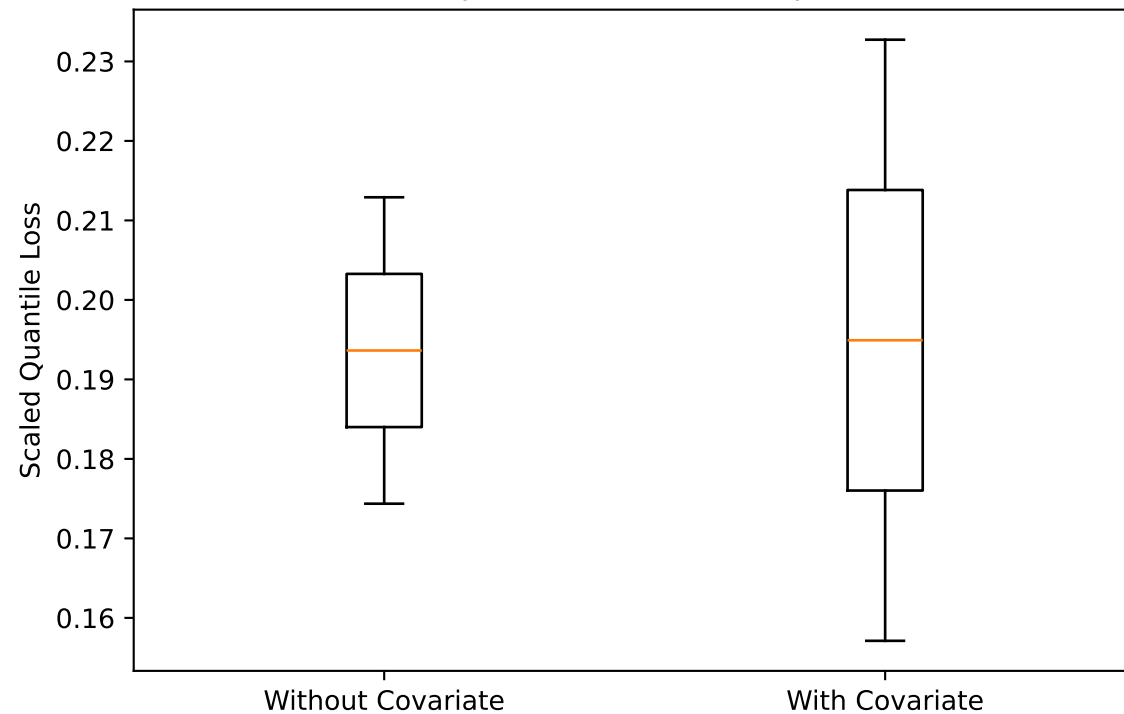
MASE Comparison Across All Experiments



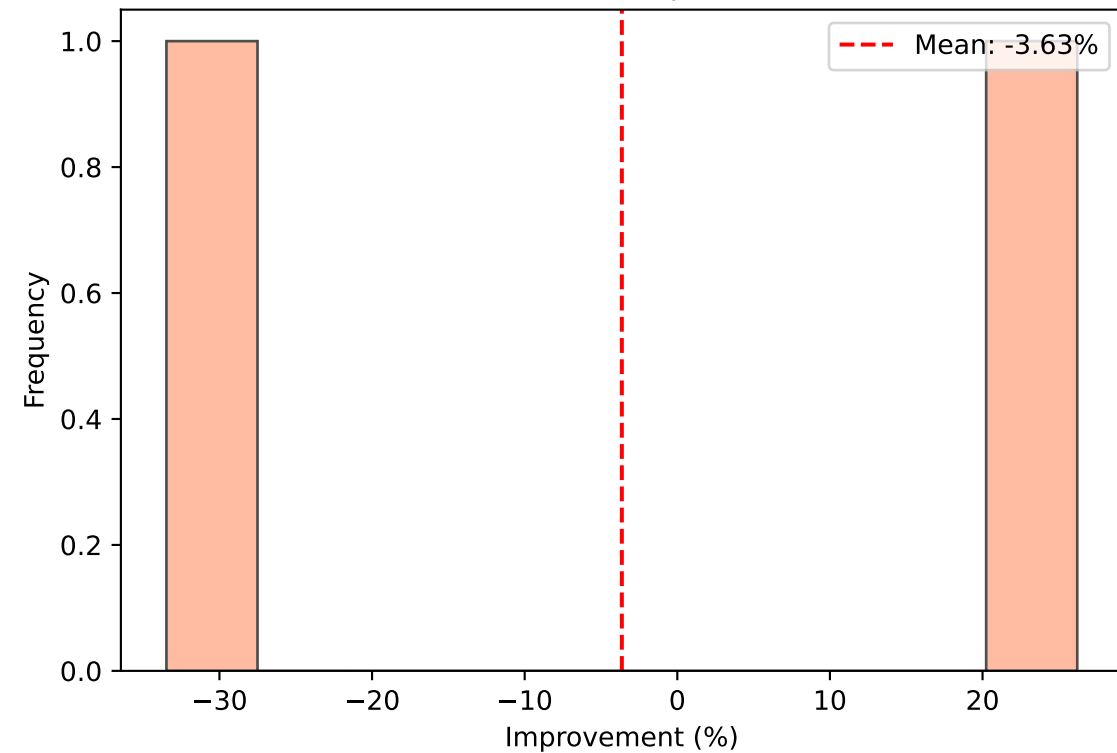
Distribution of MASE Improvements (%)



SQL Comparison Across All Experiments



Distribution of SQL Improvements (%)



Detailed Statistics

Covariate Study Detailed Results

Covariate Types: pulses

Number of Experiments: 2

MASE Results:

- Without Covariate: 0.3121 ± 0.0132
- With Covariate: 0.3085 ± 0.0207
- Average Improvement: 1.24%
- Median Improvement: 1.24%

SQL Results:

- Without Covariate: 0.1936 ± 0.0193
- With Covariate: 0.1949 ± 0.0378
- Average Improvement: -3.63%
- Median Improvement: -3.63%

Study Parameters:

- Weight: 1.0
- Relation: additive
- Train Ratio: 0.6
- Covariate Weights: Randomized per experiment (Dirichlet distribution)

Best Performing Experiment (MASE):

- Experiment 2: 3.71% improvement

Worst Performing Experiment (MASE):

- Experiment 1: -1.23% improvement