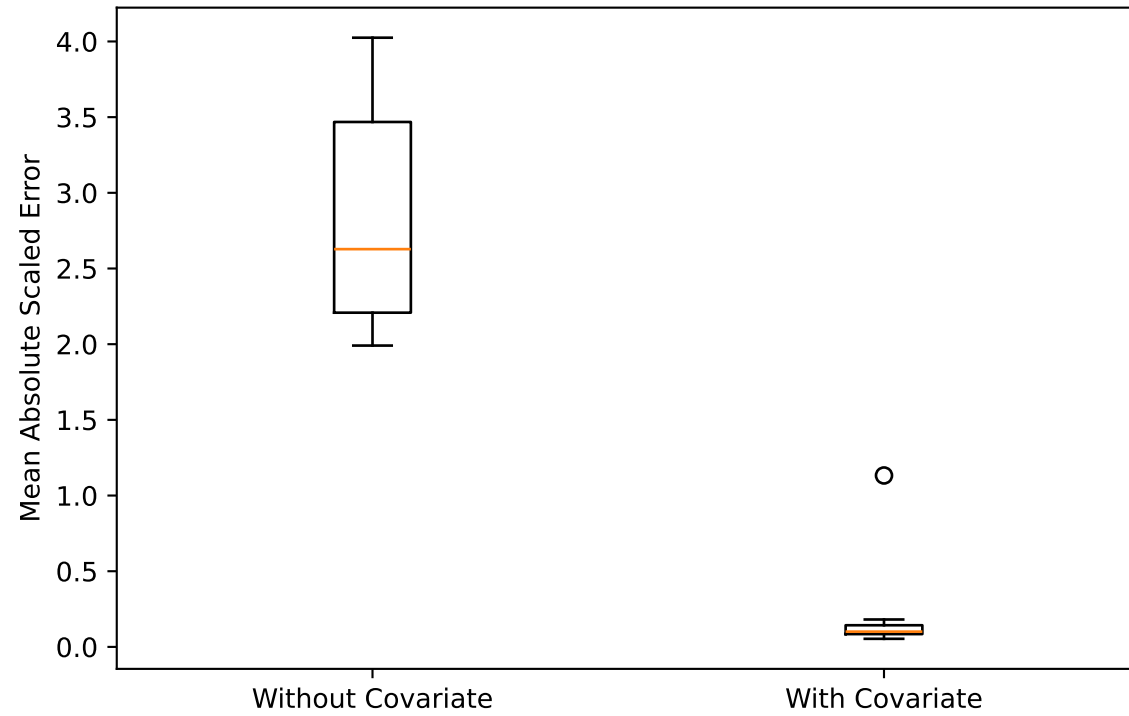
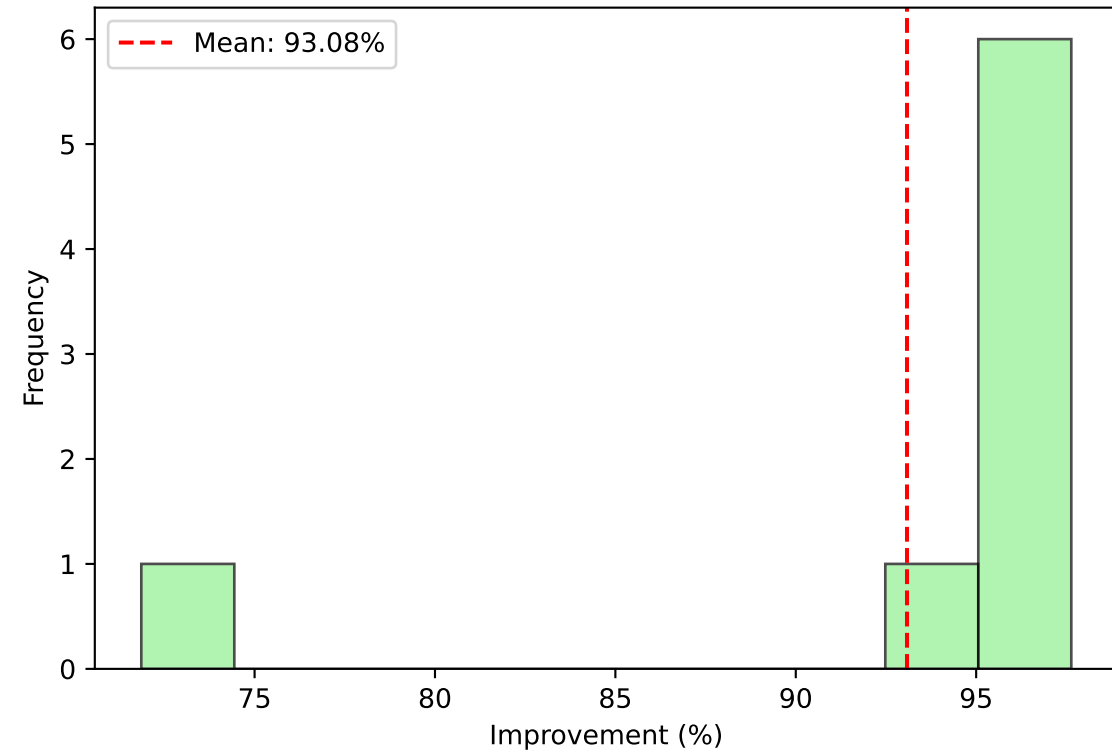


Covariate Study Summary: Ar1

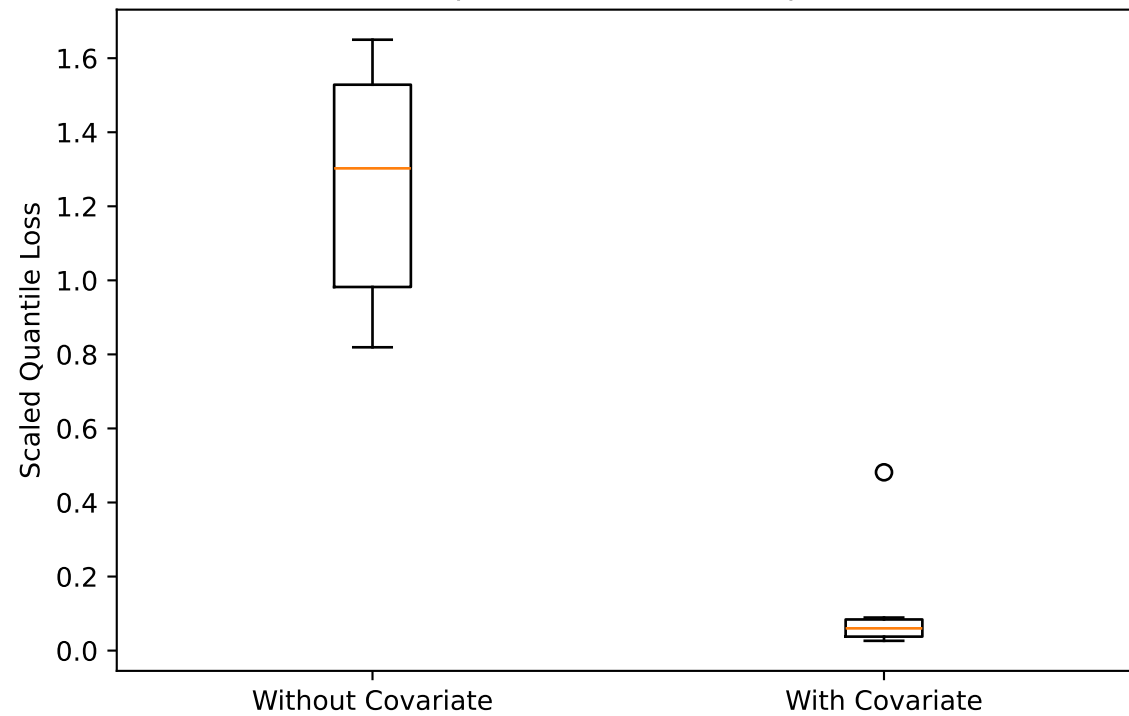
MASE Comparison Across All Experiments



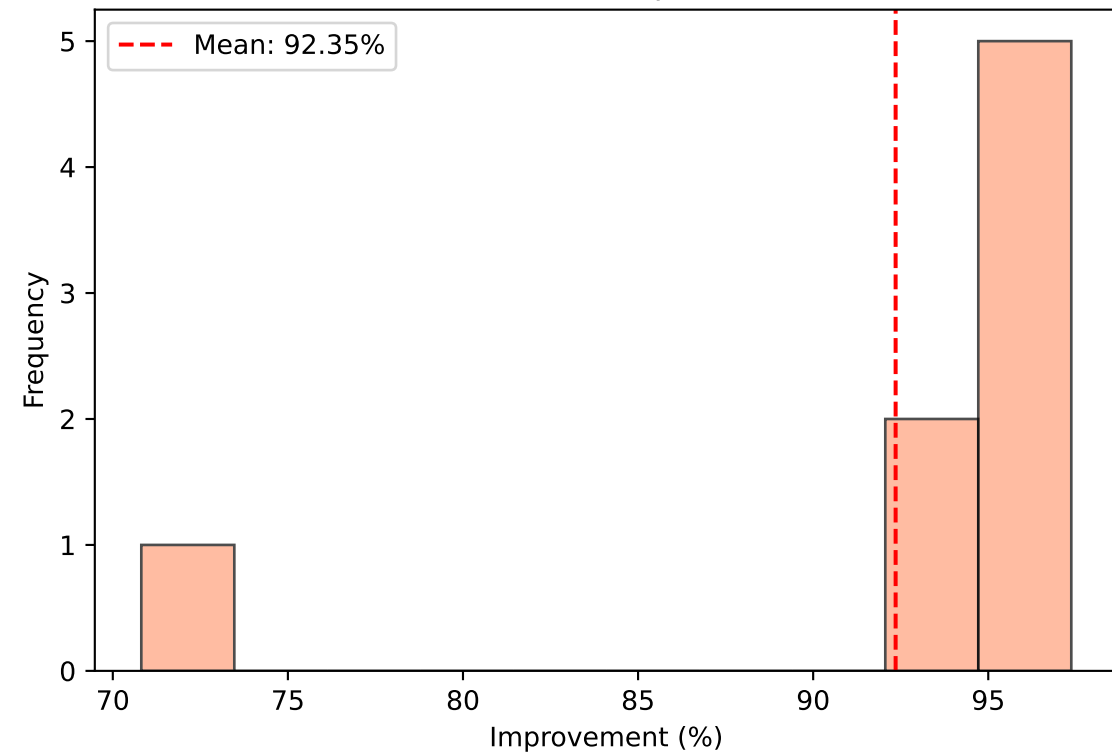
Distribution of MASE Improvements (%)



SQL Comparison Across All Experiments



Distribution of SQL Improvements (%)



Detailed Statistics

Covariate Study Detailed Results

Covariate Types: ar1

Number of Experiments: 8

MASE Results:

- Without Covariate: 2.8506 ± 0.7533
- With Covariate: 0.2322 ± 0.3423
- Average Improvement: 93.08%
- Median Improvement: 96.39%

SQL Results:

- Without Covariate: 1.2639 ± 0.3118
- With Covariate: 0.1090 ± 0.1424
- Average Improvement: 92.35%
- Median Improvement: 95.48%

Study Parameters:

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

Best Performing Experiment (MASE):

- Experiment 6: 97.64% improvement

Worst Performing Experiment (MASE):

- Experiment 4: 71.86% improvement