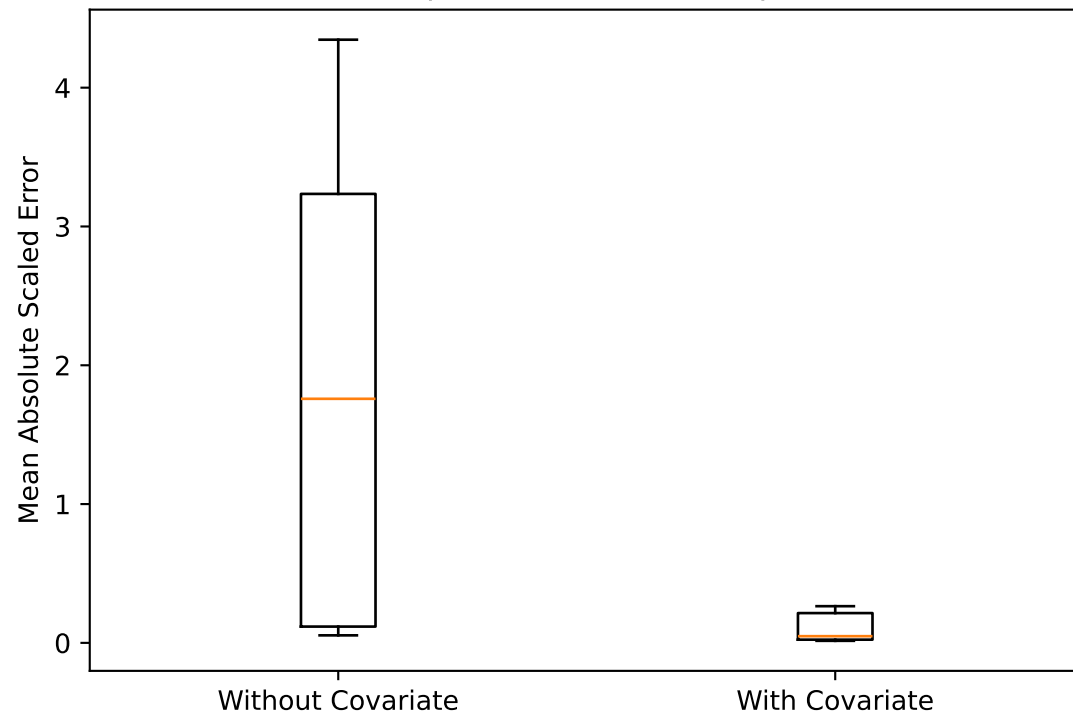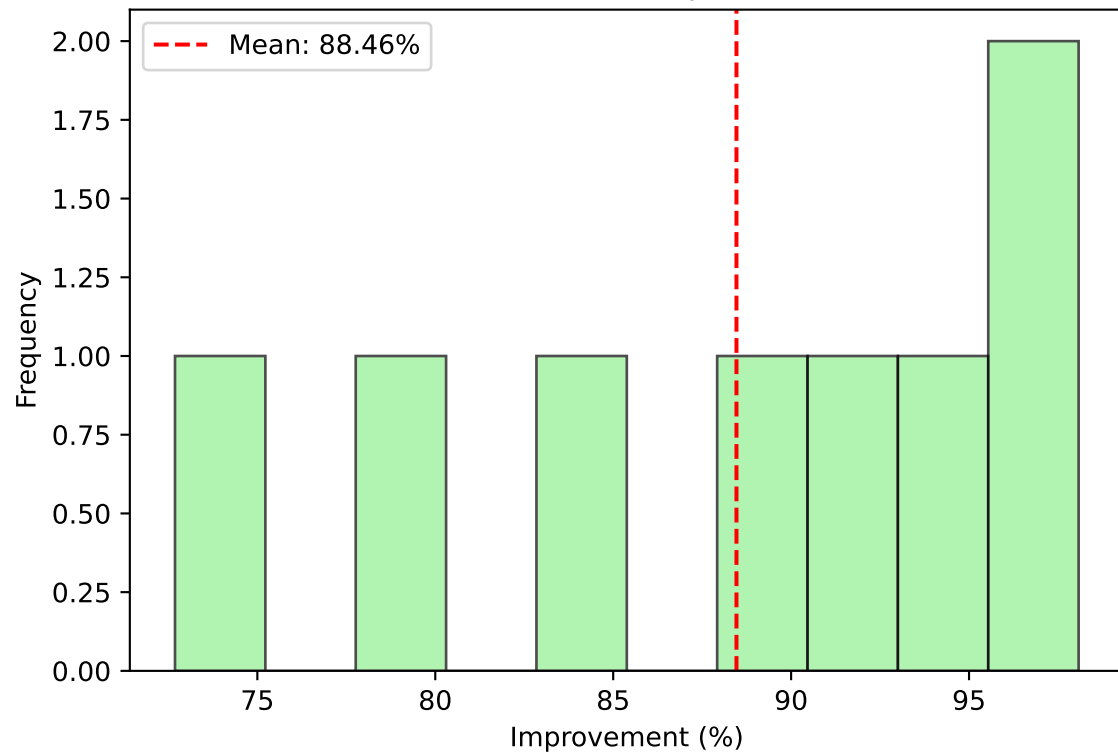# Covariate Study Summary: Ramps

MASE Comparison Across All Experiments
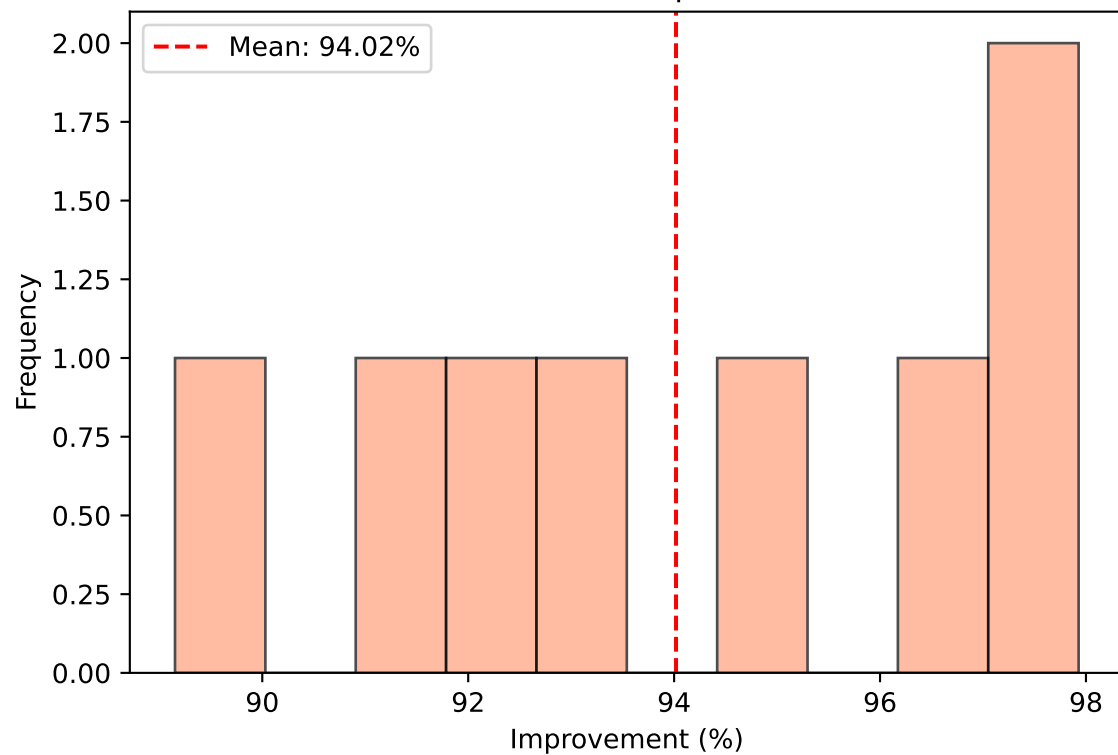
Distribution of MASE Improvements (%)

Mean: 88.46%

SQL Comparison Across All Experiments

Distribution of SQL Improvements (%)

Mean: 94.02%

Detailed Statistics

Covariate Study Detailed Results
Covariate Types: ramps
Number of Experiments: 8

MASE Results:
- Without Covariate: 1.8288 ± 1.5635
- With Covariate: 0.1066 ± 0.1000
- Average Improvement: 88.46%
- Median Improvement: 90.46%

SQL Results:
- Without Covariate: 0.9813 ± 0.7162
- With Covariate: 0.0597 ± 0.0569
- Average Improvement: 94.02%
- Median Improvement: 93.76%

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

Best Performing Experiment (MASE):
- Experiment 8: 98.08% improvement

Worst Performing Experiment (MASE):
- Experiment 3: 72.69% improvement