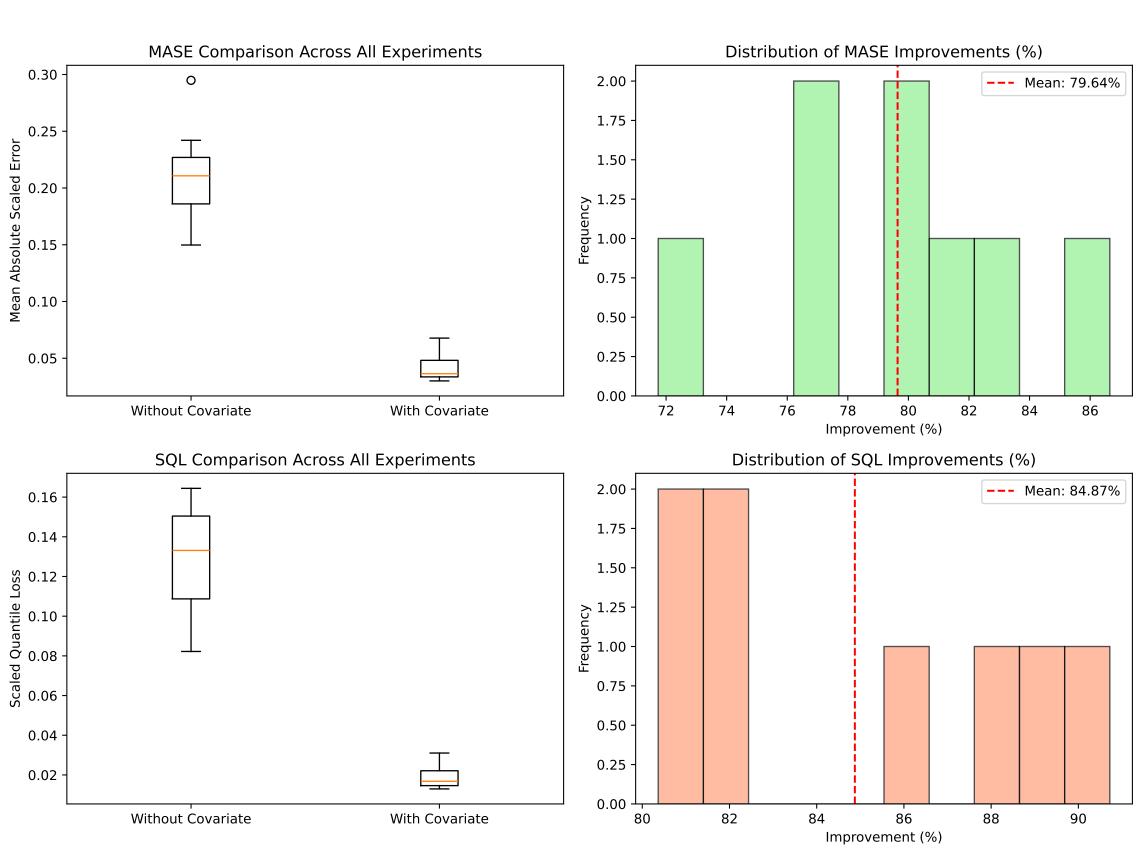
## **Covariate Study Summary: Pulses**



## **Detailed Statistics**

```
Covariate Study Detailed Results
Covariate Types: pulses
Number of Experiments: 8
MASE Results:
- Without Covariate: 0.2098 \pm 0.0443
- With Covariate: 0.0426 \pm 0.0129
- Average Improvement: 79.64%
- Median Improvement: 79.96%
SOL Results:
- Without Covariate: 0.1292 \pm 0.0274
- With Covariate: 0.0192 \pm 0.0062
- Average Improvement: 84.87%
- Median Improvement: 83.99%
Study Parameters:
- Weight: 1.0
- Relation: additive
- Train Ratio: 0.6
- Covariate Weights: Randomized per experiment (Dirichlet distribution)
Best Performing Experiment (MASE):
- Experiment 6: 86.65% improvement
Worst Performing Experiment (MASE):
- Experiment 8: 71.74% improvement
```