Multilayer Perceptron (MLP) model MSÉ: 1182.6470, R²: 0.5078 CPU Predictions (RMSE: 0.1421, R2: 0.4911) 0.2 0.4 0.6 8.0 1.0 Real CPU Usage Memory Predictions (RMSE: 0.0313, R2: 0.4569) Prediction vs Real Memory 0.90 0.86 0.88 0.92 0.94 0.96 0.98 Real Memory Usage Throughput Predictions (MSE: 2048.4046, R2: 0.5755) Prediction vs Real Throughput 6000 10000 4000 8000 12000

Real Throughput Usage

Predicted CPU Usage

Predicted Memory Usage

0.95

0.90

0.85

0.80

Predicted Throughput 2000 2500 0

0.8

0.0

Prediction vs Real CPU

Memory reference line

Throughput reference line

2000

0.84

CPU reference line