

⚡ Smart Home Energy Monitoring Dashboard

Current Power Consumption (kW)

Low Usage
0.946 kW

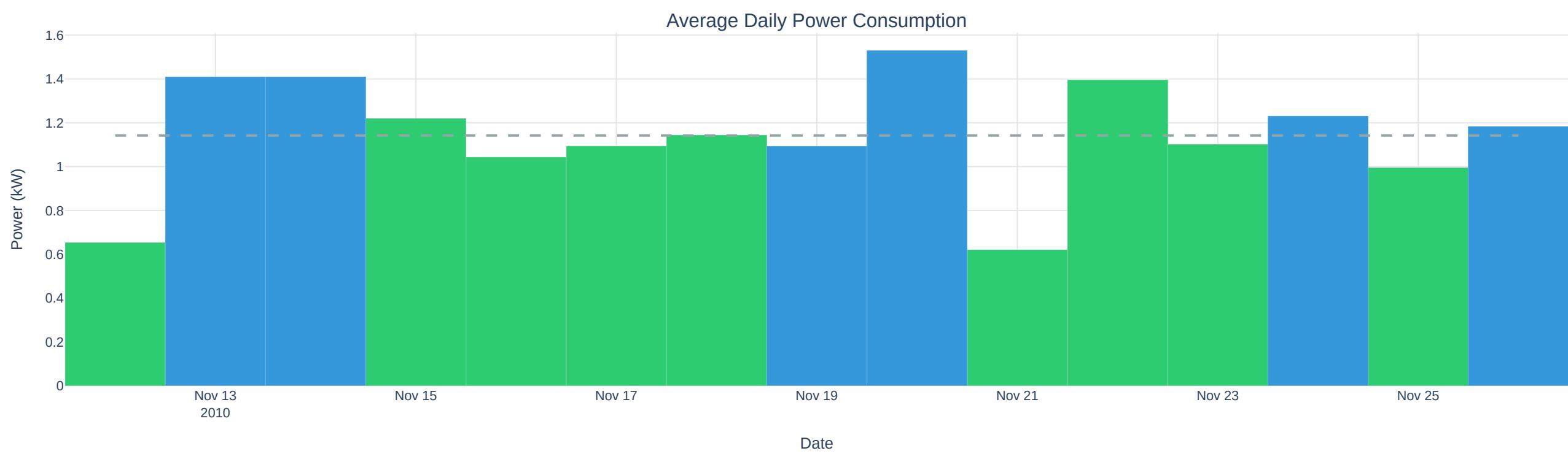
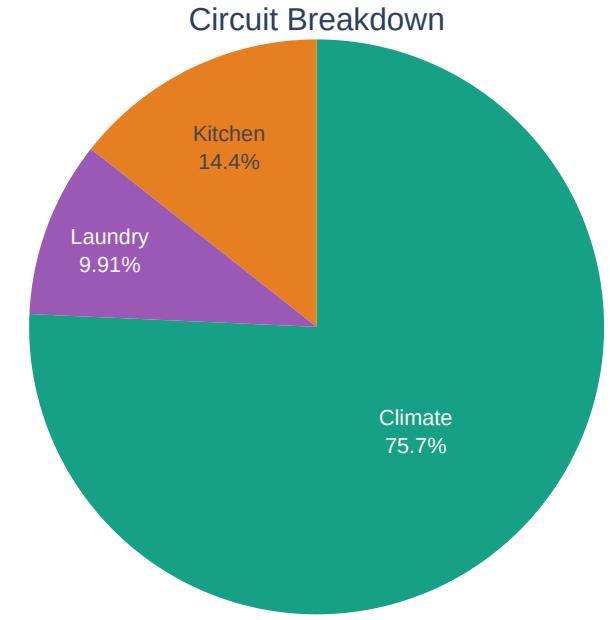
IoT System with ML-Powered Predictions | AAI-530 Module 5

High Power Alerts

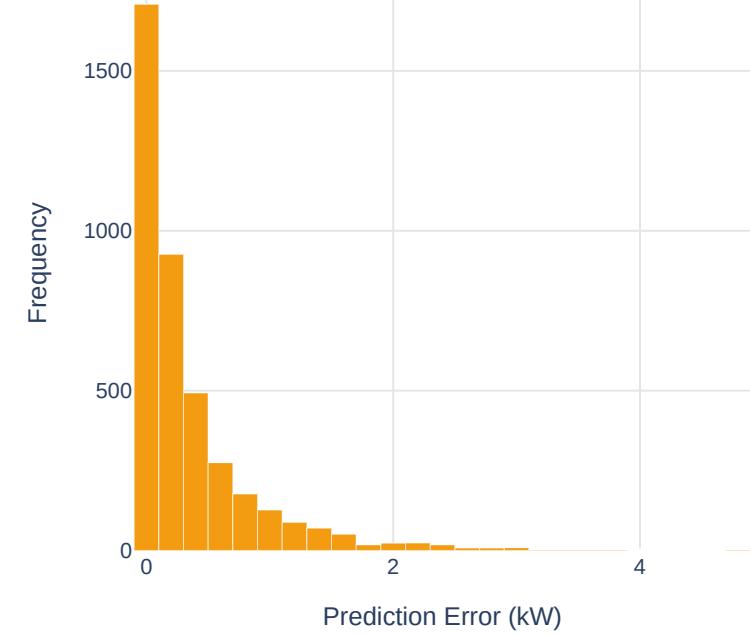
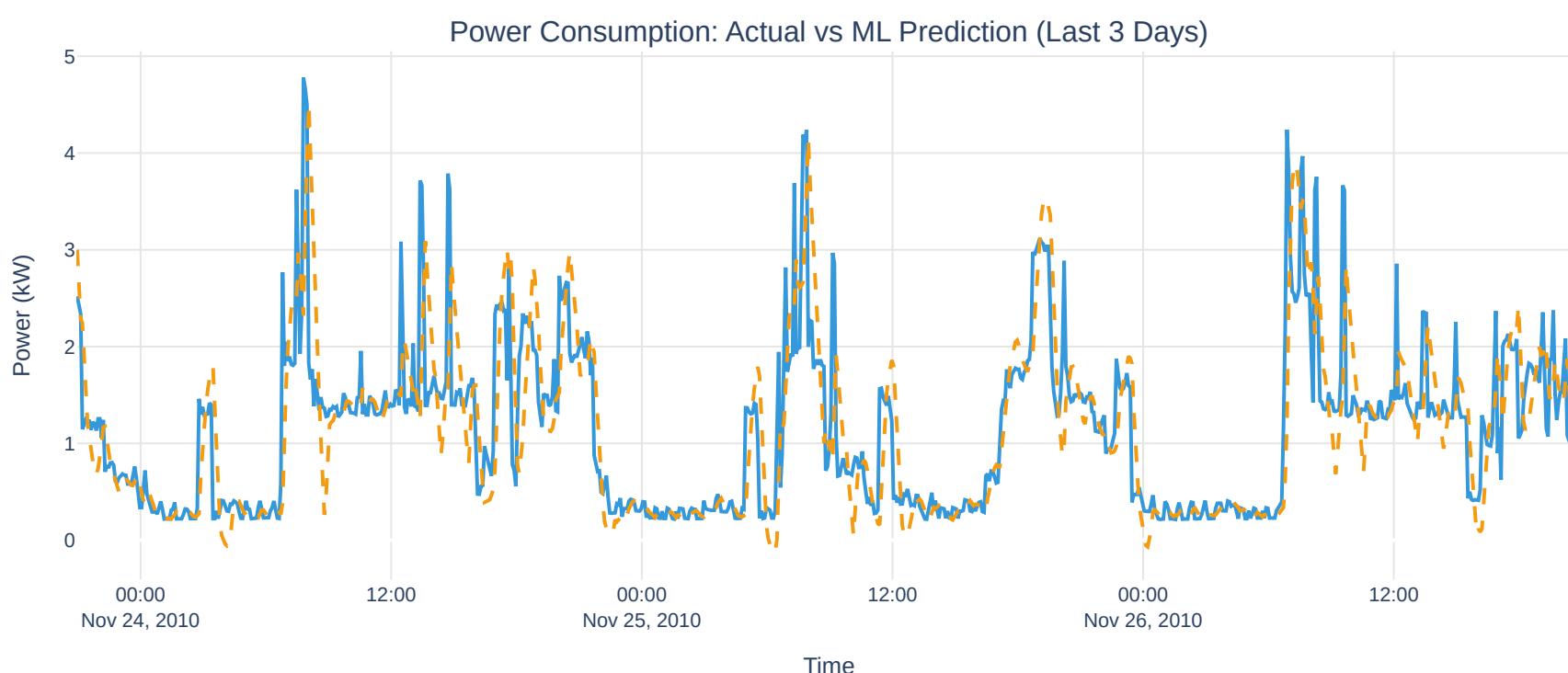
>5 kW
Last 14 Days

19

Circuit Breakdown



— Predicted — Actual — 14-Day Avg: 1.14 kW ■ Normal Usage ■ Low Usage ■ Laundry ■ Kitchen ■ Climate



ML Prediction Error Distribution

Metric	Value
Average Power	1.17 kW
Max Power	9.66 kW
Min Power	0.21 kW
High Power Alerts	19
Avg Prediction Error	0.354 kW
Data Points	4,032
Date Range	2010-11-12 to 2010-11-26