

Power Outage Analysis Report

Executive Summary

Metric	Value
Total Reports Analyzed	2
Real Outages Confirmed	1
False Positives Identified	1
Accuracy Rate	50.0%
Report Generated	2025-06-22 16:08:55

Detailed Analysis

Power Outage Analysis Report

Executive Summary

- **Total reports analyzed**: 2
- **Real outages confirmed**: 1
- **False positives identified**: 1
- **Overall accuracy rate**: 50.0%
- **Report generated**: 2025-06-22 16:08:55

Classification Performance

- **Count**: 1
- **Average Confidence**: 0.80
- **Total Customers Affected**: 150
- **Average Customers per Outage**: 150 (if applicable)

- **Count**: 1
- **Average Confidence**: 0.80
- **Total Falsely Reported Customers**: 45
- **Average Customers per False Report**: 45 (if applicable)

Dataset Information

Dataset information not available.

Geographic Analysis

- **Total Mapped Locations**: 2
- **Real Outages**: 1 (marked in red)
- **False Positives**: 1 (marked in blue)
- **Map Center**: 40.7309, -73.9870

- **Latitude Range**: 40.7128 to 40.7489 (spread: 0.0361°)
- **Longitude Range**: -74.0060 to -73.9680 (spread: 0.0380°)

- **Real Outages Cluster Center**: 40.7128, -74.0060
- **False Positives Cluster Center**: 40.7489, -73.9680
- **Cluster Separation**: Approximately 0.0524° geographic distance

- **Red Markers**: Confirmed real outages
- **Blue Markers**: Identified false positives

Detailed Analysis

- **Real outages with >80% confidence**: 0
- **False positives with >80% confidence**: 0

- **Performance Needs Improvement**: Consider reviewing classification criteria and weather thresholds.
- Continue monitoring weather patterns for outage correlation
- Review sensor calibration for areas with high false positive rates
- Implement additional validation for reports during mild weather conditions
- Consider geographic clustering patterns for predictive maintenance

- Classification based on historical weather data correlation
- Confidence scores reflect model certainty in classification decisions
- Geographic analysis helps identify regional patterns and equipment issues

This report was generated by the LLM-Powered Outage Analysis Agent

Real Outages - Detailed List

Location	Date/Time	Customers	Confidence
40.7128, -74.006	N/A	150	0.80

False Positives - Detailed List

Location	Date/Time	Customers	Confidence
40.7489, -73.968	N/A	45	0.80