

Asset Management Solution for A US-Based Process Control Giant



Problem Statement

A US-based leading heavy electrical equipment and automation technology service provider uses a large number of gateway access points to monitor and troubleshoot the equipment. However, the client was facing sporadic downtime putting the process control at a high risk. The client is looking for an AMS for predicting and avoiding the downtime.



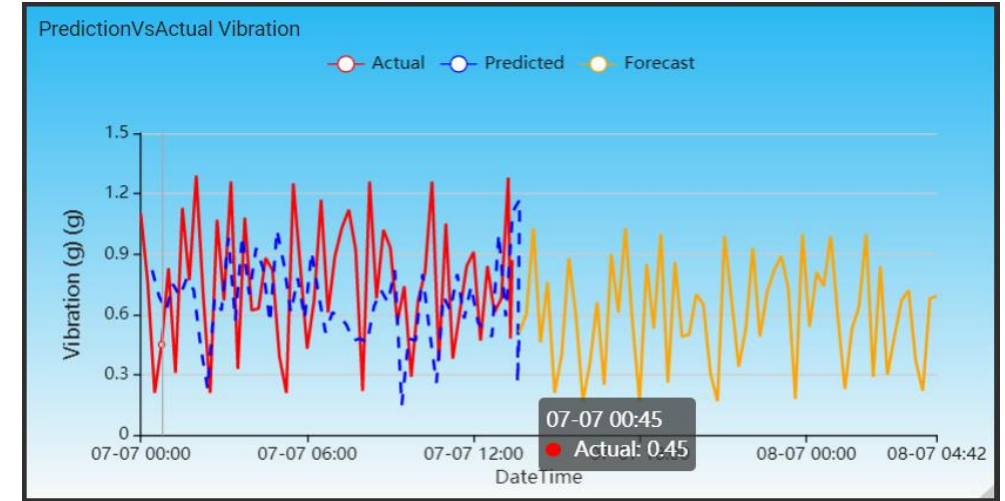
Challenges

- Unauthorized changes to the controllers causing unplanned downtime.
- Difficulty in getting real-time equipment data making performance go down.
- Backup process required human intervention causing even more delay.
- Difficulty in tracking the versioning of the projects in one go.



Solution

- Utthunga developed a dedicated AMS for the client along with the following processes:
- Placed sensors for measuring temperature and vibration and publish the data to Javelin.
 - Javelin helped predict the motor failure by calculating TTF using the in-built analytical engine.
 - Prediction algorithm was built using Python, Google TensorFlow, and Recurrent Neural Network.
 - An Alarm was deployed that is generated when TTF crosses configured threshold within a predefined time period.



Benefits



- Automatic backups help reduce unplanned downtime causing significant performance improvement.
- One stop solution for tracking the project versions and changes.
- Interactive dashboard providing real-time asset data.
- Comprehensive to monitor the health status of the critical assets.
- Maintenance alarms allowing engineers to take proactive measures.