

Use Case: Cooling anomaly detection

CHALLENGE

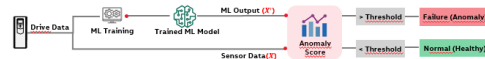
Electric drives create thermal losses during operation and require cooling. Doing the right maintenance at the right time is essential to keep cooling running smoothly.



APPROACH

When the cooling anomaly application is activated, it first automatically learns what normal behavior looks like.

Next, monitoring starts and deviation from normal leads to increase in anomaly score. A warning can be given when set threshold is violated.



BENEFIT AND METRIC

- **Predictive maintenance:** By monitoring and detecting issues in the cooling you can do the right maintenance at the right time. Avoiding extra work and downtime all at once
- **Detects fan and filter clogging:** Application can detect issues in different parts of a drive. Examples are clogged filters or malfunctioning fans

ALTERNATIVE SOLUTIONS

- **Time based maintenance:** This approach while effective will cost more money because maintenance might be done when none is required
- **Visual inspections:** Very costly. Requires your valuable employee's time