

CUSTOMER CASE STUDY

Fault Annotation Library

BKOAI's Fault Annotation Library automates real-time issue detection, enabling faster responses and more efficient troubleshooting through custom annotations and metadata

Industry: Power Generation

GOALS

- Automate real-time operational issue detection for subject matter experts.
- Build a centralized library of custom annotations and process profiles.
- Make historical fault information easier to retrieve and reuse.
- Support troubleshooting with relevant process history and associated performance indicators.

CHALLENGES

- Reliance on human memory makes historical process anomalies difficult to recognize consistently.
- High volumes of monitoring data make relevant fault patterns difficult to identify.
- Comparing current operating conditions with historical events requires manual effort.
- Troubleshooting requires access to both process data and the context surrounding previous events.

SOLUTIONS

- Deploy a Fault Annotation Library integrating anomaly detection and process-profile recognition.
- Provide an interface for subject matter experts to review and annotate identified events.
- Match real-time process patterns with historical profiles and associated annotations.
- Link annotations with historical periods of interest and associated performance indicators.

RESULTS

- Created an organization-specific database of custom annotations and process profiles.
- Connected real-time process data with preconfigured annotations.
- Enabled operators to access historical periods of interest and associated performance indicators.

EXECUTIVE SUMMARY

BKOAI's Fault Annotation Library automates real-time issue detection, enabling faster responses and more efficient troubleshooting through custom annotations and metadata. The workflow centralizes process profiles and historical fault information, matches live process patterns with prior events, and links annotations to historical periods of interest and associated performance indicators. This reduces dependence on human memory and gives operators faster access to relevant context during troubleshooting.

Reducing Dependence on Human Memory

Historical process anomalies can be difficult to recognize consistently when troubleshooting relies on individual memory. High volumes of monitoring data also make relevant patterns harder to identify, especially when current operating conditions must be compared manually with previous events.

A Centralized Fault Annotation Workflow

The Fault Annotation Library combines anomaly detection with process-profile recognition. Subject matter experts can review and annotate identified events, while live process patterns are matched with historical profiles and associated annotations.

Faster Access to Relevant Historical Context

Annotations are linked to historical periods of interest and associated performance indicators, creating an organization-specific database of process profiles and fault knowledge. Operators can quickly retrieve relevant history and use that context to support faster troubleshooting.

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