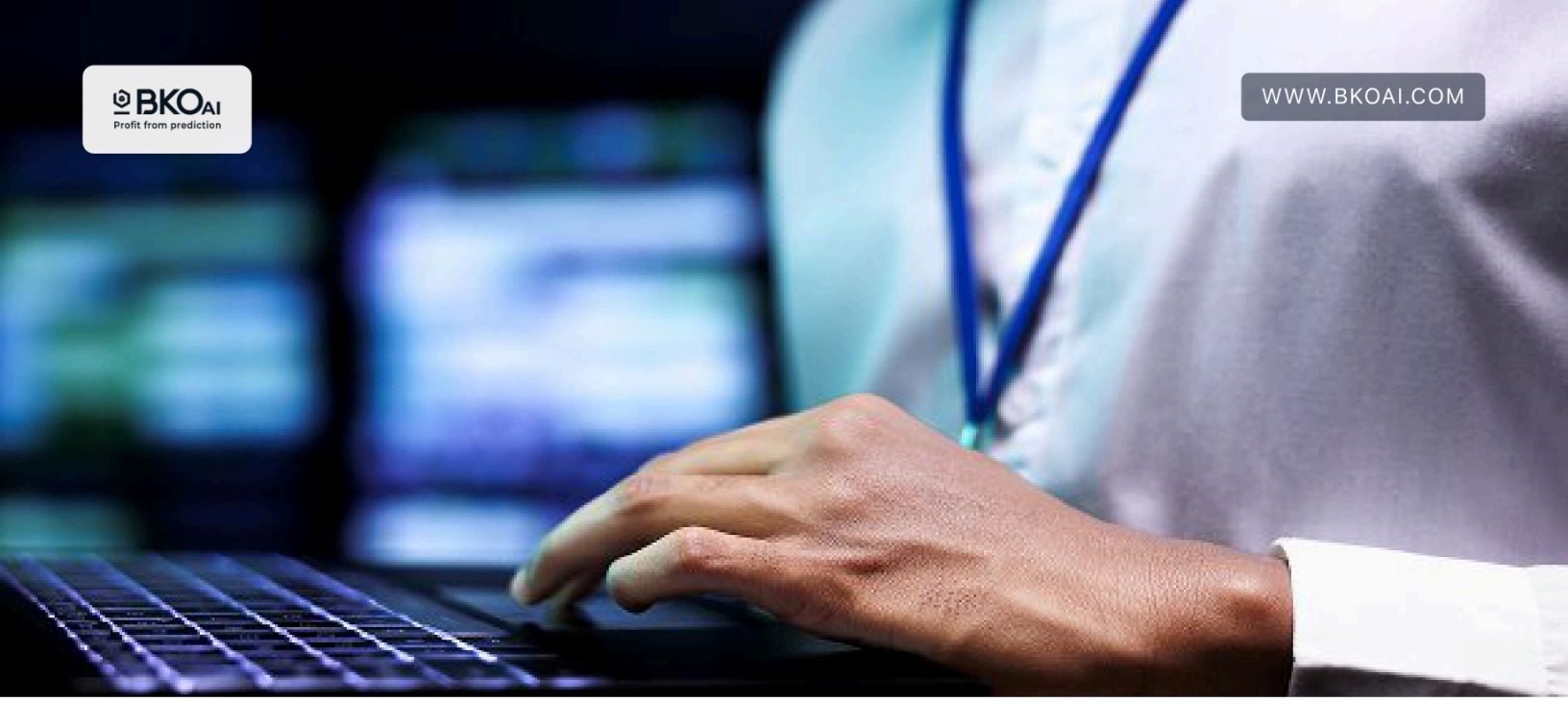


CUSTOMER CASE STUDY

Optimizing Data Transfer Process Across Different Applications

BKOAI automated data transfer and calculations across multiple furnaces, reducing manual effort and improving adaptability to data changes

Industry: Manufacturing

GOALS

- Automate calculation and transfer of data across multiple industrial furnaces.
- Eliminate manual entry for thousands of unique operational tags.
- Establish a secure and organized asset structure for calculation results.
- Accelerate the project timeline from several months to a shorter execution period.

CHALLENGES

- Managing calculations across nearly twenty active industrial furnaces.
- Handling thousands of tags with unique calculation formulas for each furnace.
- Relying on manual calculation methods estimated to take several months of effort.
- Adapting to frequent changes in tag names or data source prefixes.

SOLUTIONS

- Developed integration with an Excel mapping sheet to automate data extraction.
- Built tailored, code-based formulas adapted to each furnace's specific operations.
- Implemented an organized asset tree to structure and store calculation results.

RESULTS

- Reduced data processing timeline from several months of labor to one month.
- Automated data extraction to eliminate manual input across thousands of tags.
- Enabled seamless updates when changes were made to over two thousand tags.
- Secured operational data through structured access control and asset mapping.

EXECUTIVE SUMMARY

BKOAI automated data transfer and calculations across multiple furnaces, reducing manual effort and improving adaptability to data changes. The solution integrated an Excel mapping sheet for automated extraction, applied tailored code-based formulas to each furnace, and organized calculation results in a structured asset tree. The workflow reduced a multi-month manual effort to one month, eliminated manual input across thousands of tags, and supported seamless updates when more than two thousand tags changed.

Handling Multi-Furnace Calculation Complexity

The project required calculations across nearly twenty active industrial furnaces, with thousands of operational tags and unique formulas for each furnace. Manual execution was expected to require several months and would have been difficult to maintain as tag names and source prefixes changed.

Automating Extraction and Furnace-Specific Calculations

BKOAI integrated the workflow with an Excel mapping sheet to automate data extraction, built tailored code-based formulas for each furnace's operations, and implemented an organized asset tree to structure and store calculation results.

Reducing Manual Effort and Improving Adaptability

The automated approach reduced the processing timeline from several months to one month, eliminated manual input across thousands of tags, and enabled seamless updates when changes were made to more than two thousand tags. Structured access control and asset mapping also secured operational data.

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