

CORTEX™

CEMENT KILN NO_x SAVINGS

OPTIMIZATION

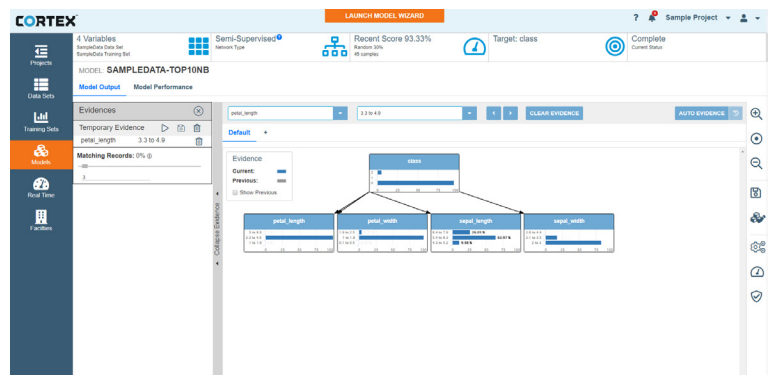


INITIAL USE CASE

OnPoint partnered with a leading company in the cement industry to apply CORTEX™ Advanced Analytics software. The objective was to decrease the amount of reducing agent required to chemically treat NO_x at one of their sites, while also maintaining or improving their already low NO_x emissions. The facility provided OnPoint with process data, product and feedstock chemistry data, and process documentation. OnPoint performed data preparation, enrichment steps, and model development using CORTEX.

SOLUTION

Leveraging CORTEX, OnPoint was able to analyze the facility's historical data and provide operating recommendations to minimize combustion NO_x created in the process, without sacrificing energy efficiency or product quality. The models developed were reviewed with the facility's process experts to validate the model performance, improve the models and results, and develop recommendations for process operation to decrease reducing agent consumption. By following the recommendations, OnPoint estimates this site will net significant savings from a more than 20% decrease in reducing agent required.



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