Lingaro

Featured Success Story

Using machine learning to gain 40%* fuller visibility into critical multilevel SCOR KPIs for manufacturing

Client: Fortune 200 beverage company/
one of the top 10 FMCG companies in the world

Challenges

Lack of data-driven,
long-term strategic mechanism to bolster resilience in accommodating future production volume increases driven by business growth

Targets not being achieved
in terms of production efficiency KPIs and equipment performance that were set up by the business

Difficulty in making informed decisions
on capital expenditure (CapEx) planning, i.e., what equipment should be decommissioned, replaced, or refurbished

Scope of Solutions

- Advanced analytics and machine learning (ML) for forecasting:
    - The probability of equipment breakdown
    - The impact of failure on business and factory operations
    - The impact on business dependency vs. tagged volumes and capacity utilization, which directly affects risk and contingency planning
- Site-level aggregation of data encompassing different types of equipment, factories, regions, and technologies

Opportunities Unlocked

- Actionable, strategic recommendations on factory asset management and CapEx optimization
- End-to-end visibility in obscured, nonlinear relationships between various variables in datasets and loss of performance in specific parts of machines
- Increased accuracy in predicting operational performance and its impact on the business by as much as **15%* with feature engineering and ML**
- Improved clarity on correlations of product quality and asset performance (by as much as **90%* of logic** with machine learning)
- Enhanced visibility and tracking of multilevel Supply Chain Operations Reference (SCOR) metrics by **up to 40%***

* Based on market/industry benchmarks and standards for manufacturing

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All things data

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