Ethica Predict

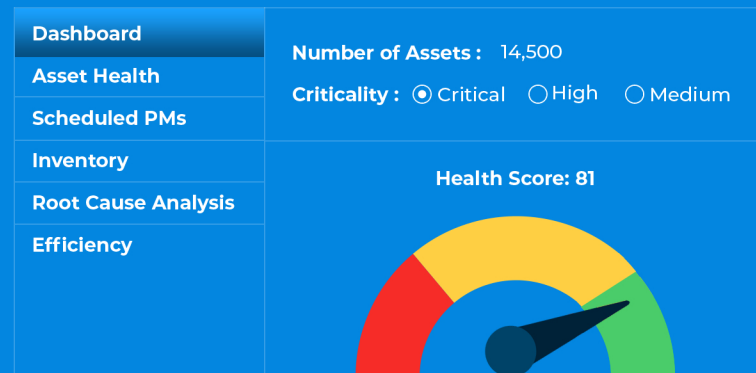## PREDICTING YOUR ASSET'S FUTURE TODAY

Revolutionize Your Asset Management Strategy with AI:

Proactively predict failures, optimize performance, and manage inventory with utmost precision, fairness, and transparency.

Ethica Predict is a cloud-based platform that uses AI and machine learning to predict asset failures, optimize performance, and manage inventory. It anticipates asset failures by analyzing historical data and improves efficiency by examining performance metrics. The platform can forecast when replacement parts might be needed, reducing downtime and enhancing inventory management. With Ethica Predict, preventive maintenance is strategic, helping to avoid unplanned downtime and extend asset lifespan.

Dashboard:

- Dashboard
- Asset Health
- Scheduled PMs
- Inventory
- Root Cause Analysis
- Efficiency

Number of Assets : 14,500

Criticality : ● Critical ○ High ○ Medium

Health Score: 81

High Speed Single Stage Blower 1

Status :
Active

Location:
Primary Facility

Blower Efficiency Curve

- Efficiency (%)

Efficiency (%) vs Flow Rate (m3/h)
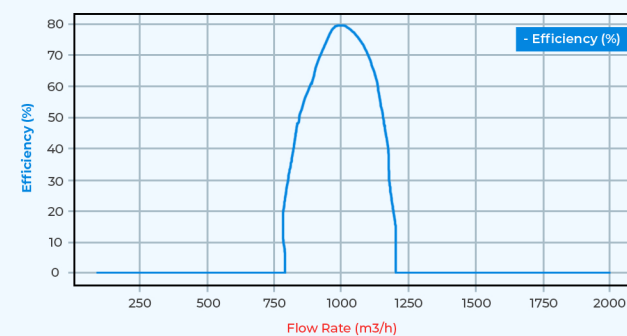
Key Features :

Performance Optimization :
Ethica Predict uses machine learning and predictive analytics to analyze performance metrics such as flow rate, pressure, temperature, vibration, and energy consumption. It suggests optimal operating conditions for assets to improve efficiency and prolong lifespan. Reducing wear and tear on equipment can lead to significant savings over time.

Preventive Maintenance Scheduling :
Ethica Predict utilizes predictive models to suggest maintenance when needed instead of relying on predetermined maintenance schedules that might lead to unnecessary service. This not only prevents unnecessary downtime but also extend the lifespan of equipment and reduce costs.

Lifecycle Management :
From installation to decommissioning, Ethica Predict tracks the lifecycle of pumps and other equipment. Using patterns in equipment behavior and performance data, it can identify when a pump is nearing the end of its useful life and suggest replacements. This helps to prevent sudden failures and unplanned downtime.

Inventory Management :
Ethica Predict's predictive analytics can help forecast the demand for replacement parts. By accurately predicting when parts are likely needed, you can manage your inventory more effectively and reduce downtime caused by the unavailability of necessary parts.

Unbiased Asset Failure Prediction :
The platform uses data cleaning, feature selection, and model selection techniques to ensure unbiased predictions. Ethica Predict's algorithms can detect potential problems before they cause failures, providing an early warning system for asset management.

Insights into Root Causes :
Not only does Ethica Predict predict potential failures, but it also provides insights into the root causes of these issues. By understanding what's causing equipment failures or inefficiencies, you can take corrective action to prevent future problems, further optimizing your maintenance processes and strategies.

Benefits:

Proactive Asset Management

Ethica Predict uses machine learning algorithms to predict asset failures before they happen. This proactive approach can help prevent unexpected breakdowns and extend the lifespan of your equipment.

Performance Optimization

By analyzing performance metrics, Ethica Predict can provide insights into improving efficiency and prolonging your assets' lifespan, enhancing overall productivity and reducing costs in the long term.

Effective Inventory Management

Ethica Predict's predictive analytics can forecast when replacement parts are needed, enabling more efficient inventory management. This reduces downtime due to unavailable parts and can lead to cost savings.

Reduced Downtime

By predicting potential asset failures and facilitating proactive maintenance, Ethica Predict can significantly reduce unplanned downtime, ensuring that your operations run smoothly and without interruption
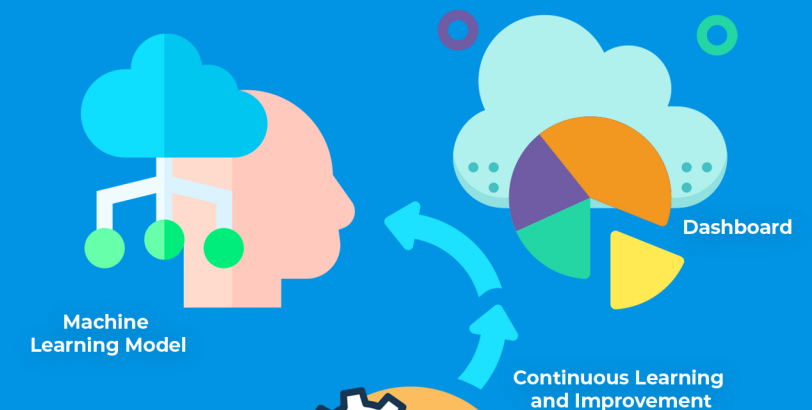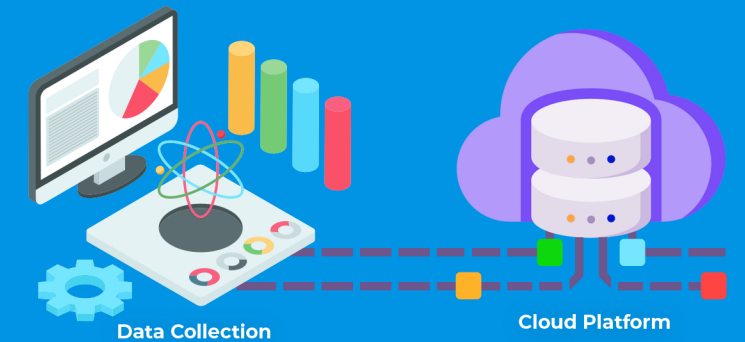
Cost Savings

Predictive maintenance can help you avoid high emergency repairs and downtime costs. Ethica Predict can also help you realize significant cost savings by optimizing performance and managing inventory effectively.

Fair and Transparent Operations

Ethica Predict is committed to providing unbiased asset failure predictions, ensuring that asset decisions are made based on accurate data, not bias. This promotes fairness and transparency in asset management operations.

How Ethica Predict Works?

- Data Collection
- Cloud Platform
- Dashboard
- Continuous Learning and Improvement
- Machine Learning Model
- Alerts and Preventive Maintenance: