Fleet Health AI

Leverage smart scheduling to increase fleet uptime while minimizing maintenance costs

The Noodle.ai Fleet Health AI (FHAI) application is designed for companies that run their own dedicated fleet and are responsible for downtime and maintenance costs.

The FHAI application creates a digital twin of the fleet and constructs the DNA of each fleet asset, mapping every incident, trip, breakdown, and fault from each asset's in-service date. The application's machine learning models then take this data and apply proprietary deep learning and ensemble techniques to predict both asset-level and component-level failure across the entire fleet.

With these predictive maintenance insights provided by the FHAI application, fleet leaders are fully-empowered to maximize uptime and minimize maintenance costs.

Key Features

Proactive Failure Detection
Combination of supervised and unsupervised machine learning techniques

Comprehensive Failure Diagnostics
Probability of failure, time to impact, and components at risk

Automated & Custom Failure Event Learning
Extensive failure pattern detection directly feeds Anomalous Risk Signature Library

Maintenance Calendar Prioritization
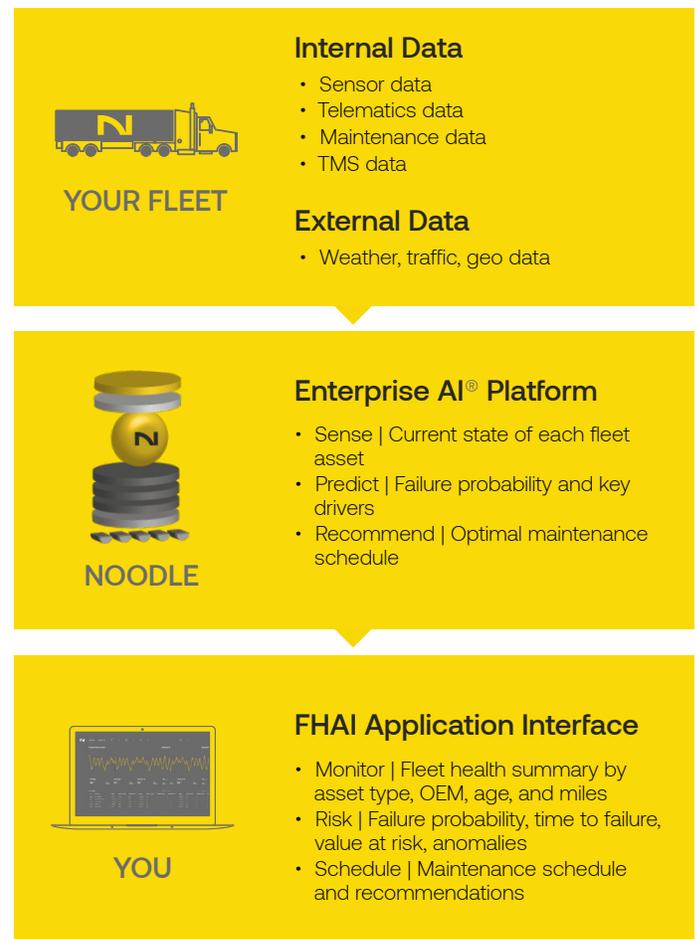Closed-loop integration with enterprise asset management & CMMS

Edge AI Technology
Infrastructure for auto-tiering, real-time sensor data streams

Digital Twin Technology
Creates a virtual replica of the fleet, providing a clear picture into the DNA of each fleet asset

Application Details

YOUR FLEET

Internal Data
- Sensor data
- Telematics data
- Maintenance data
- TMS data

External Data
- Weather, traffic, geo data

NOODLE

Enterprise AI® Platform
- Sense | Current state of each fleet asset
- Predict | Failure probability and key drivers
- Recommend | Optimal maintenance schedule

YOU

FHAI Application Interface
- Monitor | Fleet health summary by asset type, OEM, age, and miles
- Risk | Failure probability, time to failure, value at risk, anomalies
- Schedule | Maintenance schedule and recommendations

Key Differentiators

Modular Functionality
Core application built around predictive maintenance, with supplementary modules addressing CPM attribution, asset acquisition/disposition, warranty analytics, and fuel analytics

Proprietary Failure Detection Library
Noodle.ai's patent-pending Anomalous Risk Signature Library (ARSL) maximizes failure event coverage and enables rapid application configuration and deployment

OEM Partnerships
Technology alliance with vehicle sensor data and fleet asset monitoring software company

Noodle Data Cartridges
Pre-built external data signals, including weather, traffic and geo attributes to accelerate predictive failure detection

Benefits

5 – 10%
reduction in fleet maintenance spend

Increased Revenue
with higher fleet utilization

3 – 5%
improvement in fleet lifetime

12 – 15%
reduction in fleet downtime

Noodle.ai is on a mission to create a world without waste. As the leading source of Enterprise AI®, we're pushing the limits of data science to give business leaders a view into the future, enabling them to achieve radical efficiency within their manufacturing and supply chain operations.

Founded in 2016, Noodle.ai has been selected the #1 B2B Startup by LinkedIn, a Top 100 Startup by CIO Review Magazine, and a 2019 Cool Vendor for AI in Supply Chain by Gartner.

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