Hivecell and RapidMiner: Real-Time Edge Scoring

Hivecell's Edge-as-a-Service (EaaS) and RapidMiner's Artificial Intelligence of Things (AIoT) Combine to Power Better Decisions

Hivecell is the premiere EaaS provider, empowering organizations to deploy compute power to thousands of locations outside the "data closet." RapidMiner enables AIoT for enterprises through its open and extensible data science platform. Many industrial and equipment-intensive industries deploy Hivecell "hives" to sites with smart equipment and devices. These hives collect the data being generated from these IoT sites, which are fed into RapidMiner to build predictive models. These RapidMiner models are then embedded in the hives for fast execution and to guide effective device- and location-specific decision making.

Hivecell and RapidMiner in Action

Predict and Prevent Equipment Failure

By using Hivecell and RapidMiner to continuously gather detailed data from production or field equipment and apply AI, organizations can predict which equipment is likely to fail, and when. This allows preventive action to be taken at the most opportune moment, reducing repair costs and minimizing downtime. Patterns of failure can also be identified to avoid continued investing in problematic equipment.

Optimize Network Management

Network performance is vastly improved by field equipment with smart sensors that collect data for analysis by Hivecell and RapidMiner. Historical data is used to predict demands on the network and recommend operational adjustments to maximize performance. Practically any network can be improved with AIoT: telecom nodes, power grids, utility pipelines, transportation fleets, and more.

Improve Product Design and Quality

Hivecell and RapidMiner turn end-user products themselves into field equipment. Smart products collect data during usage for analysis by the manufacturer. This provides rich input to product designers about how products are used, what feature improvements would help, and where production processes can improve product quality.

Increase Production Efficiency

Hivecell and RapidMiner can enable smart plant floor equipment to provide insight into overall production processes, not just the equipment itself. Data can be collected on what was produced when, by which equipment and under what conditions. AI can then compare this data to quality and throughput results, and pinpoint opportunities for improvement by making adjustments to equipment, conditions, process flows and more.

20x
faster and more accurate predictions using AI with IoT than traditional approaches

75%
of data will be processed on the edge by 2025

42B
connected devices will be part of the IoT by 2025

60%
annual growth in edge/IoT usage in industrial settings

Benefits of the Hivecell/RapidMiner Solution

Lower Operating Costs

Hivecell and RapidMiner enable smarter, proactive repair of field and production equipment at lower risk and with less production downtime.

Better Customer Experience

The greater reliability of products and service networks created by Hivecell and RapidMiner makes for happier, more loyal customers.

Reduced Risk

Using Hivecell and RapidMiner to improve product quality and production processes reduces the risk of product failure and health, safety and environmental liabilities.

Increased Revenue

Improving product design by using Hivecell and RapidMiner to understand usage and predict and prevent problems drives higher demand and revenues.

Where Can the Hivecell/RapidMiner Solution Help?

With only 1% of sensor data being analyzed in the datacenter, the business value of running ML at the edge becomes compelling in asset intensive industries such as energy, mining, transportation where sites can be remote and, connectivity patchy or non-existent and speed is of the utmost importance. Real-time anomaly detection on all relevant data with RapidMiner provides manageable, scalable and robust AI on relevant data running on Hivecell edge-as-a-service. Monitor and maintain assets in the field before they break, identify issues at sea or alert to unsafe conditions underground.

ABOUT HIVECELL

Hivecell is the Edge-as-a-Service company redefining the category of edge computing with easy-to-deploy, future-proofed, technology agnostic solutions empowering companies to scale infinitely and save massive amounts of resources in their management and processing of big data. It takes compute power out of the data center and places it at the true edge, enabling companies to efficiently manage thousands of remote locations without the use of a huge IT team and at 50 percent of the cost of traditional cloud providers. To learn more visit, hivecell.com.

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