

TOP 12 REASONS FOR ENTERPRISE AI INSIGHTS & PORTFOLIO MANAGEMENT

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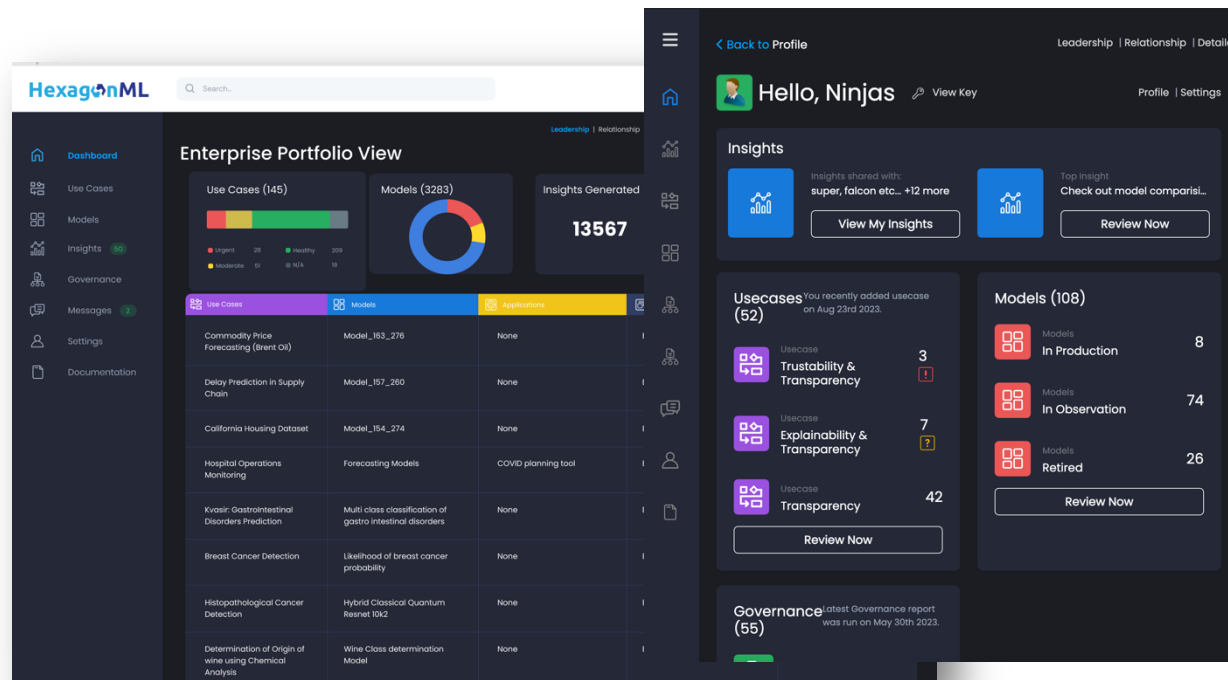
Summary



Enterprise AI portfolio and model insights and outcomes play a pivotal role in shaping the strategic and operational decisions of businesses. As organizations increasingly rely on data-driven models to inform their actions, understanding the insights these models provide and the outcomes they predict is crucial.

TOP 12 REASONS FOR ENTERPRISE AI INSIGHTS AND MODEL MANAGEMENT

Competitive Advantage: In today's data-driven world, businesses that can quickly interpret and act on model insights often have a competitive edge. They can identify market trends, customer preferences, and operational inefficiencies faster than their competitors. Hexagon-ml's model insights manager provides the enterprise view to see all models and develop your competitive edge.



Informed Decision Making: Model insights offer a data-backed foundation for making decisions. Instead of relying on intuition or outdated methods, businesses can make choices based on empirical evidence, leading to better outcomes. Model Insights manager enables simulation-driven what-if analysis for analyzing outcomes, explainability, and fairness.

WHAT IF ANALYSIS

Usecases: Determination of Origin of wine using Chemical Analysis

Models: Model_144_324

Light Theme / Dark Theme

Analyze Performance Features

Visualize: Datapoints / Partial dependence plots

Nearest counterfactual: L1 / L2 Model: MOd

Create similarity feature

Edit - Datapoint 111

Feature	Value(s)
Alkalinity_of_ash	21
Alcohol	12.52

Infer - Datapoint 111

Predict

Run	Model	Label	Score	Delta
1	MOdel1 ->	1 (Class-2-wine)	0.977	
1	MOdel1 ->	2 (Class-3-wine)	0.018	
1	MOdel1 ->	0 (Class-1-wine)	0.005	
1	MOdel2 ->	1 (Class-2-wine)	1.000	
1	MOdel2 ->	2 (Class-3-wine)	0.000	
1	MOdel2 ->	0 (Class-1-wine)	0.000	

Partial Dependence Plots

Color_intensity

Inference score

Color_intensity

Proanthocyanins

Hue

OD280_OD315

Proline

Risk Management: Predictive models can forecast potential risks, from market downturns to operational disruptions. By understanding these outcomes, businesses can develop strategies to mitigate or even avoid these risks. Our patented model governance report provides all insights from when to re-train the model to when to switch to a better model.

The dashboard displays a grid of reports under two use cases: 'Determination of Origin of wine using Chemical Analysis' and 'Startups Profit Prediction'. A detailed view of a report is shown, including a 'Use Case Summary' and 'Model Ownership' information.

Use Case Summary:

Wine is one of the most popular alcoholic drinks which has been used for thousands of years. Wine is produced by fermenting grapes. There has been much fraud in the wine domain where the wine is adulterated with cheaper products is common. Relabeling cheaper wines to the popular and expensive brands and counterfeiting are also common frauds in the wine domain. Different modern approaches have been used to mitigate such falsification which ultimately aims to verify key elements such as composition, geographical origin and vintage. The dataset used here is the result of a chemical analysis of wine produced in the same region in Italy from different three cultivars. The analysis consists of the amount of 13 components present in all three types of wines. The 13 components are: Alcohol, Malic acid, Ash, Alkalinity of ash, Magnesium, Total phenols, Flavanoids, Nonflavanoid phenols, Proanthocyanins, Color intensity, Hue, OD280/OD315 of diluted wines and Proline.

Model Ownership:

Model Owner: Super
 Model Developer:
 Model Approver:
 Model User:
 [1]S. Aeberhard, D. Coomans and O. de Vel, Comparison of Classifiers in High Dimensional Settings, Tech. Rep. no. 92-02, (1992), Dept. of Computer Science and Dept. of Mathematics and Statistics, James Cook, University of North Queensland.
 [2]S. Aeberhard, D. Coomans and O. de Vel, THE CLASSIFICATION PERFORMANCE OF RDA' Tech. Rep. no. 92-01, (1992), Dept. of Computer Science and Dept. of Mathematics and Statistics, James Cook, University of North Queensland.

Model Maintenance Team:

The overall rating for various drifts are listed above. In this report, we analyse four areas of model governance:

Model Discrimination
 Discrimination refers to how well the model differentiates those at a higher risk of having an

Operational Efficiency: Model insights can highlight inefficiencies in operations, supply chains, or production processes. Addressing these can lead to cost savings and improved productivity.

Personalization: In sectors like marketing and retail, model outcomes can predict customer preferences and behaviors. This allows businesses to offer personalized experiences, products, or services, enhancing customer satisfaction and loyalty.

Resource Allocation: Insights from models can guide businesses on where to allocate resources, whether it's capital investment, human resources, or marketing spend, ensuring optimal returns on investment.

Performance Measurement: Models can benchmark and measure the performance of various business functions. By understanding these outcomes,

businesses can set targets, measure progress, and drive performance improvements.

Strategic Planning: Long-term strategic planning can be informed by model predictions about market growth, technological advancements, or regulatory changes. This ensures that businesses are prepared for the future.

Transparency and Trust: Especially in regulated industries, being able to explain model insights and outcomes is crucial for transparency and compliance. It also builds trust among stakeholders, including customers, investors, and regulators.

Innovation: Model insights can identify gaps in the market or unmet customer needs, driving innovation in product development or service offerings.

Cost Savings: Predictive models can forecast costs related to inventory, maintenance, or production. By acting on these insights, businesses can optimize processes and achieve significant cost savings.

Stakeholder Communication: Clearly articulated model outcomes can be used to communicate with stakeholders, from investors looking for growth projections to employees aligned with company goals.

QUESTIONS
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