



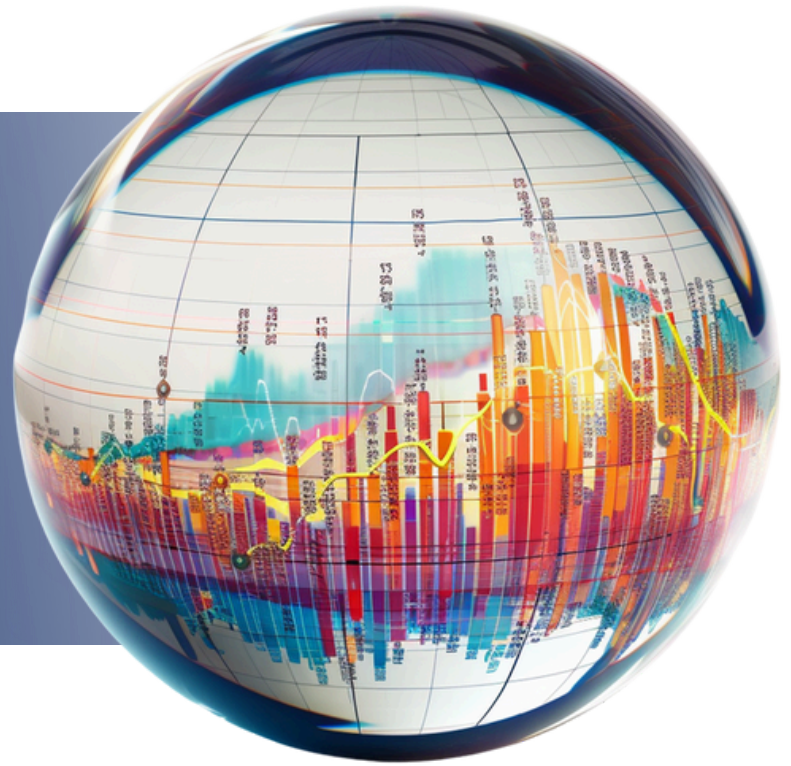
Shape an Impactful Future



TRANSPARENT AI, SMARTER DECISIONS: THE POWER OF EXPLAINABILITY

**Ready to ditch unreliable,
one-size-fits-all forecasts?**

Learn how Mined XAI's eXplainable AI (XAI) enhances transparency, reduces bias, and empowers leaders to make confident, data-driven decisions.



BEYOND THE BLACK BOX: BRINGING CLARITY TO AI DECISIONS

Most artificial intelligence (AI) systems operate as “black boxes,” concealing the mechanisms underlying decision-making processes. This lack of transparency hinders trust, inadvertently introduces hidden biases and presents missed opportunities. Consequently, executives encounter challenges in validating insights, refining strategies, and making well-informed decisions.

At Mined XAI, we take a different approach: **eXplainable AI (XAI)** that empowers enterprise leaders with full visibility into how and why decisions are made. Our “glass box” models provide granular insights, allowing teams to identify biases, optimize strategies, and drive real organizational impact with confidence.



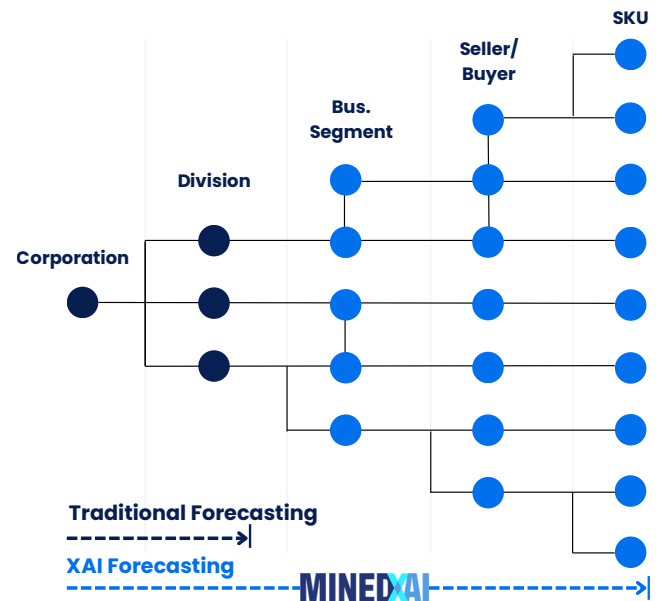
We prioritize a user-centric design, ensuring that AI-driven insights are not just displayed but are also intuitive, actionable, and tailored for real-time decision-making.

FROM STATIC TO SMART: AI THAT EVOLVES WITH YOUR ORGANIZATION

Traditional forecasting models operate with limited visibility, often relying on broad assumptions that fail to capture the complexity of modern business environments. **As shown in the image**, traditional methods provide high-level projections but lack the granularity required for precision at the product, location, or SKU level, leading to blind spots and missed opportunities.

Mined XAI’s forecasting changes the game. Our explainable AI framework enables forecasting at every level of the business, ensuring decision-makers have accurate, **real-time insights that are actionable from the enterprise level down to individual SKUs**. By continuously learning from shifting market conditions, supply chain disruptions, and emerging trends, our AI-driven approach refines forecasts dynamically, providing leaders with transparent, data-backed confidence in every decision.

This isn’t just AI, it’s AI that evolves with your organization, ensuring every insight is clear, eXplainable, and designed for smarter, more strategic decisions.



AI THAT WORKS FOR ENTERPRISE DECISION-MAKERS

Most AI forecasting models fall into one of **three categories**:

- ▶ **Conventional Forecasting:** Conventional forecasting, widely adopted across enterprises, relies on fundamental statistical techniques such as linear regression, moving averages, and exponential smoothing. While user-friendly and commonly integrated into business intelligence software, these approaches often fail to account for complex patterns or rapidly evolving market dynamics. They assume historical trends will persist, leading to errors in volatile environments. Additionally, they struggle with managing large data volumes and capturing seasonal patterns, requiring continuous tuning. Moreover, they lack scalability across organizational levels. Consequently, these simplified models fail to accurately reflect market complexities.
- 📦 **Traditional AI (“Black Box”):** Traditional AI forecasting models, despite capturing intricate data patterns, face challenges in enterprise deployment. They lack transparency due to complex algorithms, leading to skepticism among stakeholders. These models require substantial historical training data, which may not always be readily available. Their complexity complicates maintenance and updates, increasing operational costs. Without proper feature engineering and domain expertise, they may overlook crucial insights, resulting in inaccurate forecasts.
- 📦 **Advanced (Mined XAI’s “Glass Box”):** An advanced, eXplainable, and enterprise-ready AI solution that provides actionable insights for executives, managers, and front-line teams. Unlike competitors that offer opaque or overly technical AI, our solutions are designed for real-world business decisions. Whether a CFO is adjusting capital allocation or a sales leader is optimizing incentives, our AI delivers digestible, customized intelligence in real time.

PATTERN RECOGNITION THAT POWERS SMARTER FORECASTING

At the core of Mined XAI’s AI is **Topological Data Analysis (TDA)**, a powerful computation method that identifies complex patterns in data that traditional models miss.

Instead of relying on rigid regression models that treat sales as a straight line, TDA uncovers hidden purchasing cycles, volatility patterns, and unrealized market opportunities.

- ✔ **Recognizes non-linear trends** like seasonality, demand surges, and supplier shifts.
- ✔ **Creates a unified data signature**—so you don’t need thousands of disconnected models.
- ✔ **Optimizes business decisions**—identifying lift opportunities, customer segments, and long-term demand.

This approach allows organizations to forecast up to 90 days with accuracy, enabling proactive decision-making on staffing, inventory, promotions, and budget allocation.

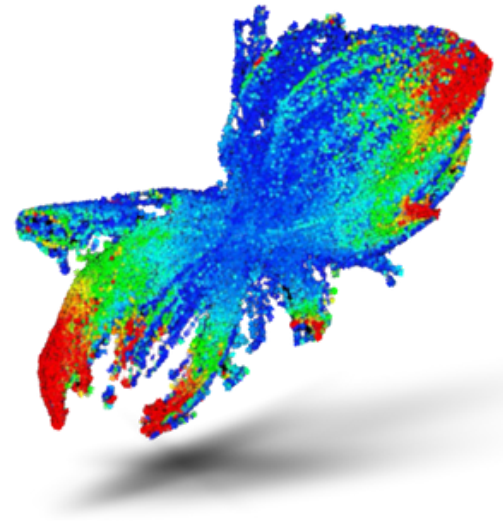


Image: XAI in action

CUSTOMER SUCCESS: FORECASTING UP TO 90 DAYS WITH PRECISION

A multi-billion-dollar technology reseller struggled with forecasting accuracy. Traditional models (based on linear regression) failed to account for volatility, seasonality, and real-time shifts in buying behavior.

Enter Mined XAI.

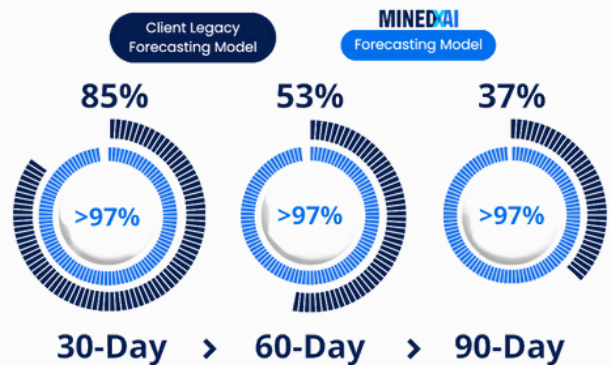
Most forecasting models rely on linear regression, which assumes sales follow a straight-line trend. But in reality, sales are highly unpredictable, fluctuating due to seasonality, customer behavior, and market conditions. A linear model takes a few data points (e.g., quarter-over-quarter or year-over-year sales) and draws a straight line into the future, often resulting in forecasts that swing wildly and are occasionally accurate, but never consistently reliable.

The **graphic on the right** compares Mined XAI's forecasting accuracy with traditional linear models. While linear methods may work for short-term predictions (30 days), their accuracy drops significantly over longer periods.

Without a reliable 90-day forecast, businesses struggle to plan ahead, whether it's adjusting sales incentives, managing inventory, or securing materials with long lead times. Mined XAI solves this by adapting to real-world sales patterns, delivering more precise, actionable forecasts.

THE POWER OF EXPLAINABLE AI IN FORECASTING

Forecast **ACCURACY** by Prediction Time-Period



With **Mined XAI**, the customer achieved:



90-day forecast accuracy within a 3% error rate (vs. 15-20% for traditional methods).



Real-time visibility into demand shifts, allowing proactive sales and inventory planning.



Strategic agility—enabling leadership to adjust promotions and resource allocation ahead of time.

HOW WE WORK

Many organizations risk spending years and a fortune only to find out their AI strategy isn't meeting their enterprise needs. Mined XAI takes a measured approach. We start by getting to know your business, your goals, processes, and data, so we can build solutions that actually work for you.

Through hands-on collaboration, we refine the problem, pull out key insights, and develop AI models that fit your needs. Once validated, we roll out the solution, train your team, and keep improving it over time. **The result? Actionable intelligence, real impact, and an AI strategy that delivers from day one.**



THE MINED XAI DIFFERENCE



Approach to AI Adoption and Integration:

Our *phased-approach* ensures our XAI offerings are tailored to address specific business challenges.



Trust and Explainability:

XAI with clear, interpretable decision-making processes to help stakeholders understand and trust the technology.



Augmented Decision-Making:

Our XAI solutions work alongside users, enhancing the human expertise rather than a replacement.



Integration with Existing Workflows:

Develop XAI models that integrate easily into your enterprise systems to minimize friction in AI adoption.

BEYOND FORECASTING: TRANSFORMING DATA INTO ACTIONABLE INTELLIGENCE

Mined XAI's architecture isn't just about **sales forecasting**, it's about intelligent, explainable decision-making across industries. Wherever uncertainty exists, Mined XAI turns complexity into clarity, ensuring enterprise leaders stay ahead of the curve.

Supply Chain
Optimization +
Logistics



Fleet
Management +
Risk Modeling



Socioeconomic
Planning



Data Agnostic AI-
Deep Analytics
From Any Data
Source



ABOUT MINED XAI

At Mined XAI, we make AI simple and accessible.

Headquartered in Dayton, OH, we bring decades of robust experiences to swiftly deploy eXplainable AI (XAI) solutions to solve complex data issues. Our client's AI journeys enhance their market leadership, visualize opportunities, boost efficiency, and align enterprise goals for a robust bottom line.

PUT XAI TO WORK
FOR YOU

