INTELLIGENT AUDIT

Apples to Oranges

Anomaly Detection Unveiled $1000+ in Hidden Fees

ABOUT INTELLIGENT AUDIT'S
Machine Learning Capability

Our proprietary machine learning algorithms are an ensemble of auto-encoders, boosted decision trees, and LSTM (long short-term memory) deep learning frameworks, which can give invoice-level results in real-time. Training the algorithms includes a combination of supervised learning and self-supervised learning, which uses fully labeled datasets and leverages important insights on historical data made by account teams and other company experts.

The key to understanding machine learning is bringing actionable intelligence into the loop so the recipient understands what the data is saying and what actions to consider next as a result. In other words, anomalous events are presented with contextualized information to our customers to explain why something anomalous happened, and what they can do to mitigate any further exposure.

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What Happened

Our global retail customer's procurement team executed a carrier RFP which asked for "apple-to-apples" rates which would reflect an all-in cost. Thinking they were comparing apples-to-apples pricing, our customer started using a new carrier that was significantly cheaper than the other carriers who bid on the same lane. When extra beyond charges caused a spike in costs, the customer learned the carrier's price was not 'all-in' after all.

How Machine Learning Helped

After only a few shipments, our machine learning and anomaly detection uncovered an anomalous spike in beyond charges.

Business Impact

Once detected, the procurement team was able to narrow it down to the lane, realizing the carrier was disingenuous with their rates and beyond charges were charged separately. By detecting the cause of the costs and helping to quickly resolve the issue, **IA enabled the customer to switch to a carrier that was more transparent with their pricing, saving them thousands in the long run.**

See how machine learning could help take your data to the next level.

GET STARTED