



Pharmacy Analytics

Analytics Lakehouse

Data-Driven Inventory Insights

PRESENTED BY

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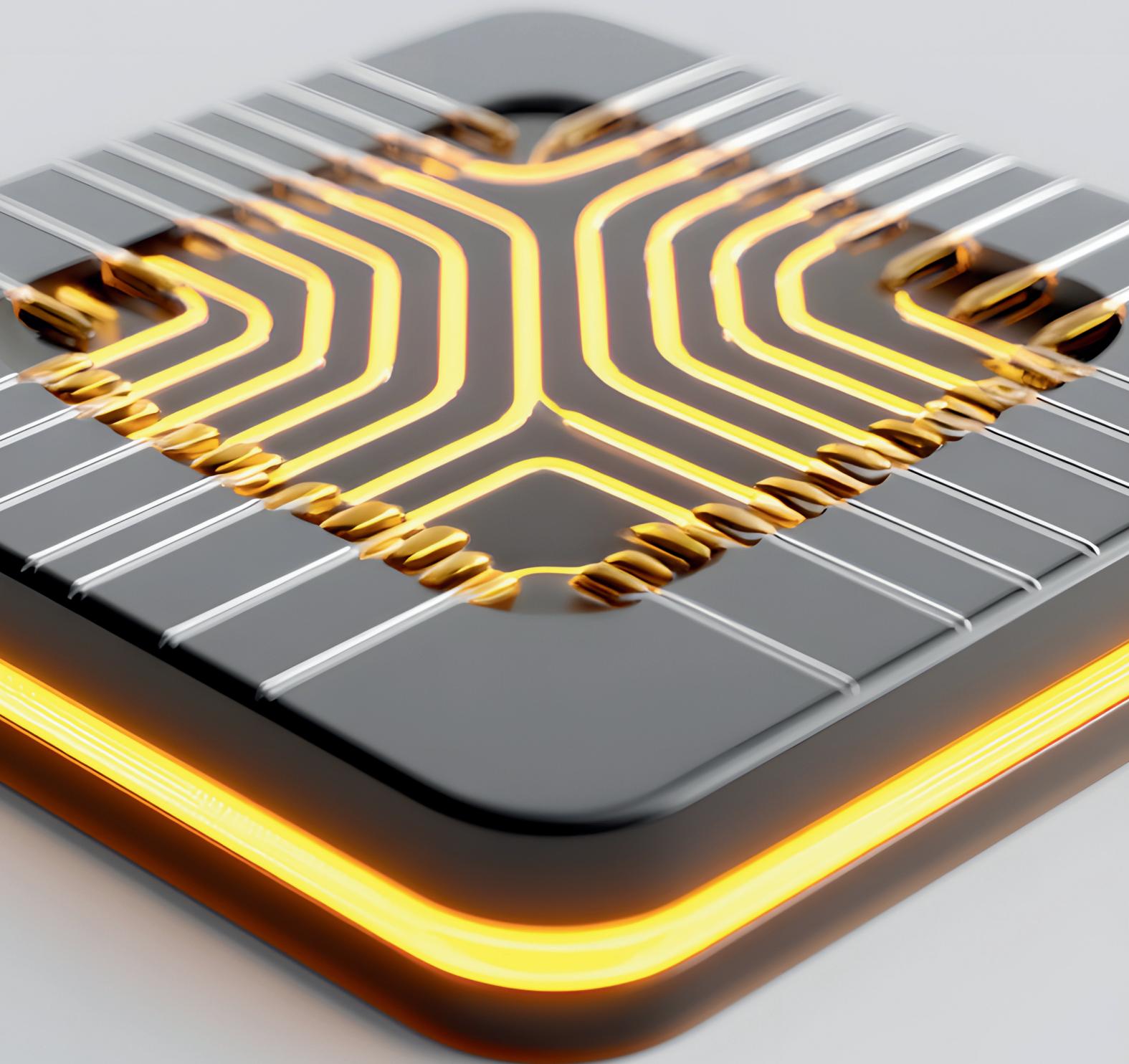
Problem Statement

Retail pharmacies are confronted with significant **analytics challenges** that lead to frequent stock-outs of essential medicines, resulting in lost sales and dissatisfied customers due to poor inventory management.



Solution Overview

This section outlines the **development of a Pharmacy Analytics Lakehouse** utilizing the Databricks platform, emphasizing data-driven insights for inventory management and sales intelligence while ensuring privacy compliance.



Architecture & Data Flow

This section outlines the **data ingestion process** into the Bronze layer, emphasizing the importance of capturing source fidelity for accurate analytics and decision-making in pharmacy operations.



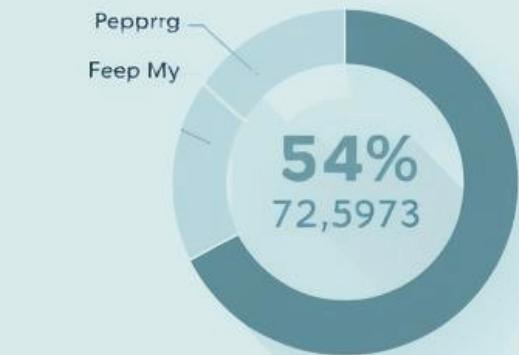
Analytics & Dashboards

Our dashboards offer **comprehensive inventory visibility**, enabling pharmacies to manage stock level effectively and make informed decisions based on real-time data insights.

Pharmacy Inventory Analytics

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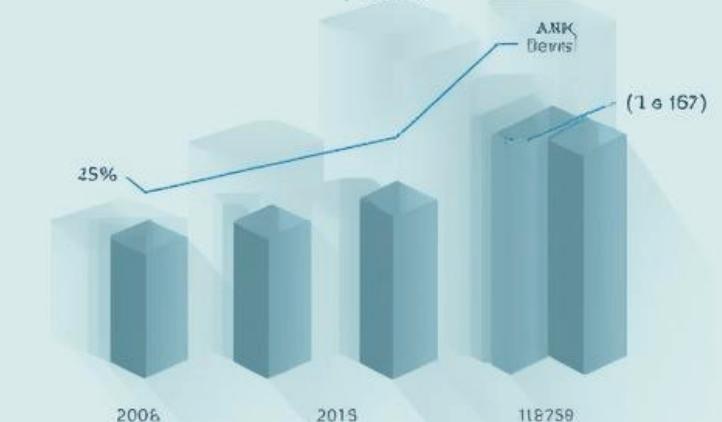
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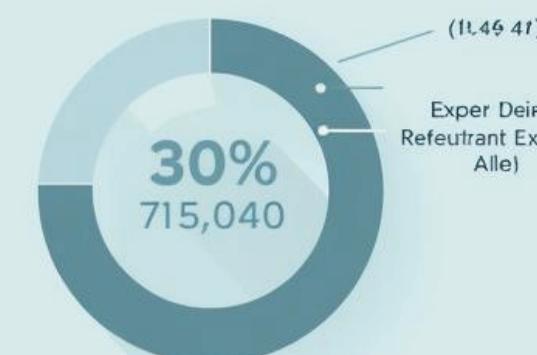
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Machine Learning Models

This section explores the **development of regression models** to quantitatively predict stock risk scores, enhancing inventory management through data-driven insights and proactive decision-making strategies.



Project Impact

This project has **enabled significant reductions** in expiry-related inventory losses while improving operational efficiency and medicine availability through innovative data-driven strategies and analytics.

