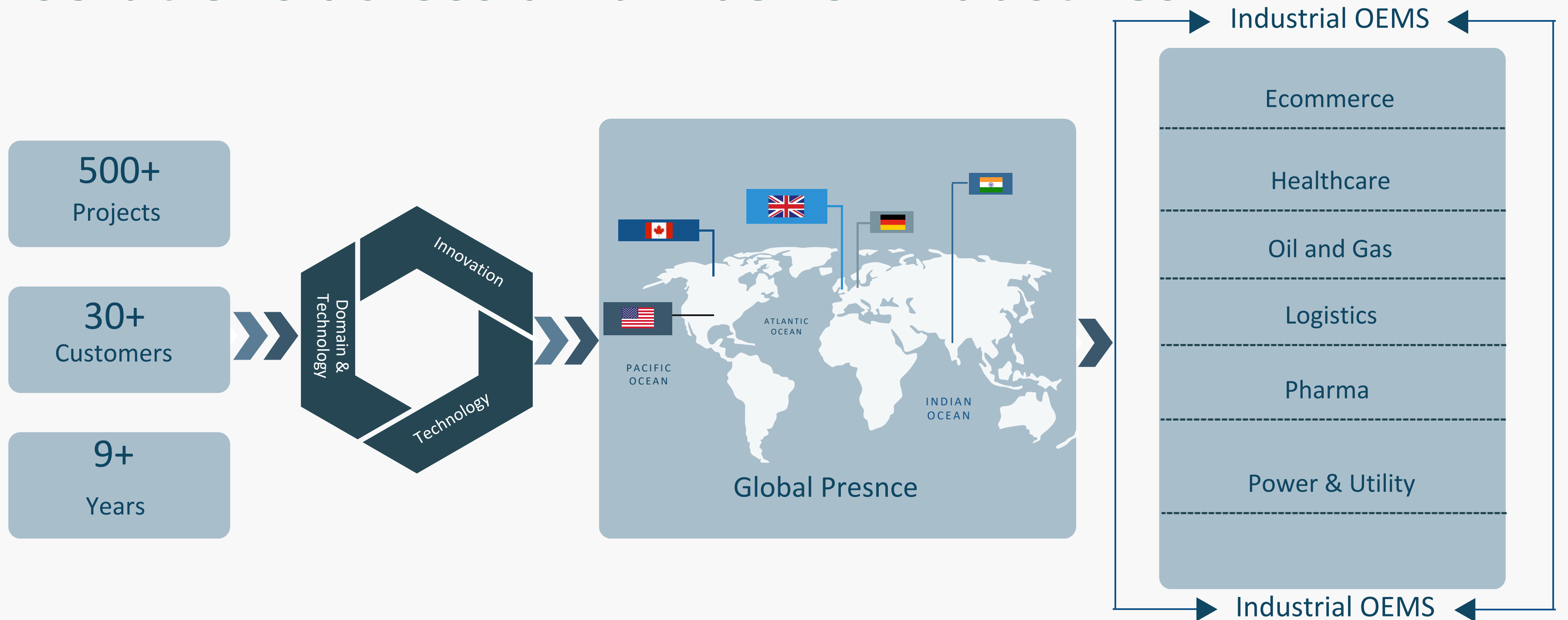
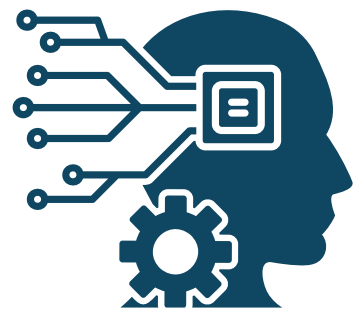


Enterprise AI, Analytics & RPA | Solutions Overview

We are delivering advanced analytics and AI solutions across a number of industries



DigiPrima Services



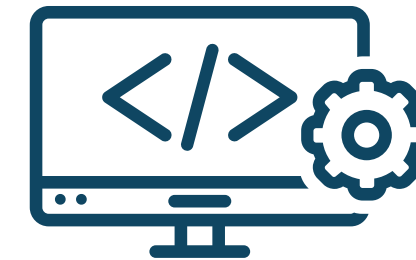
GenAI & Machine Learning



Data Analytics



Process Automation



Custom Software Development



Cloud Migration



Web Development



Mobile App Development

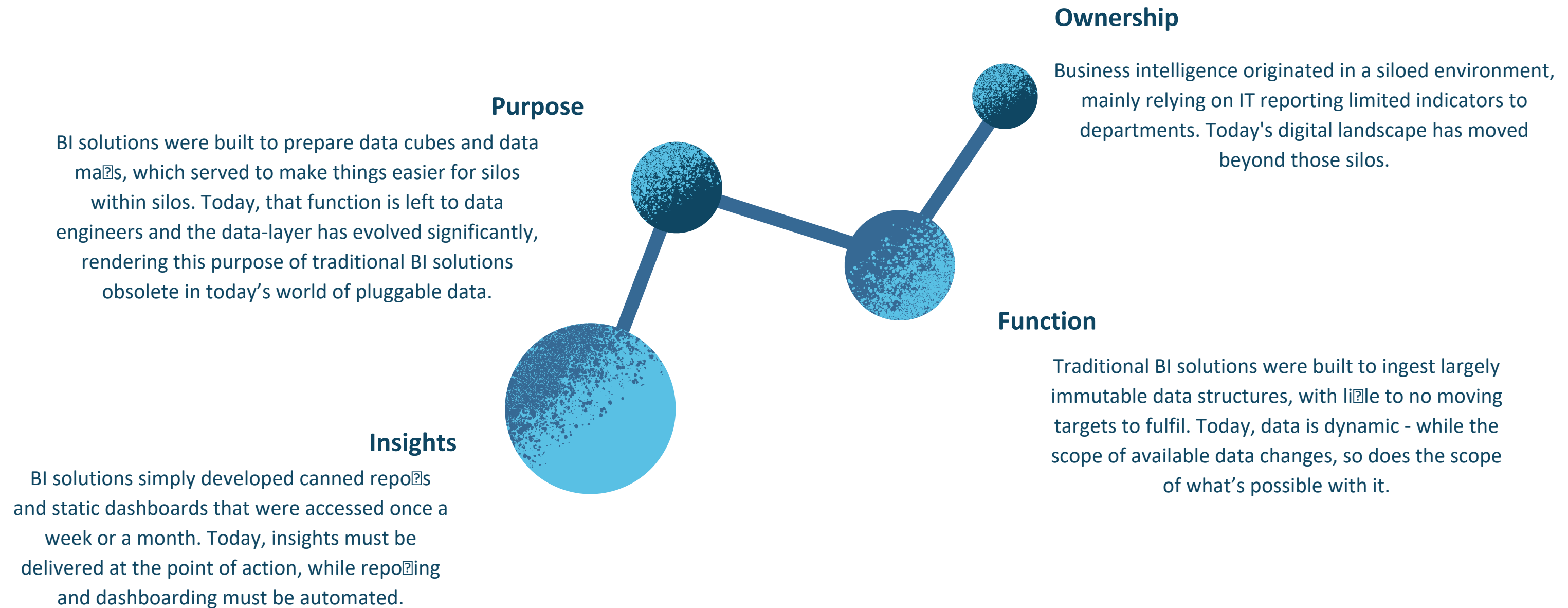


Quality Assurance

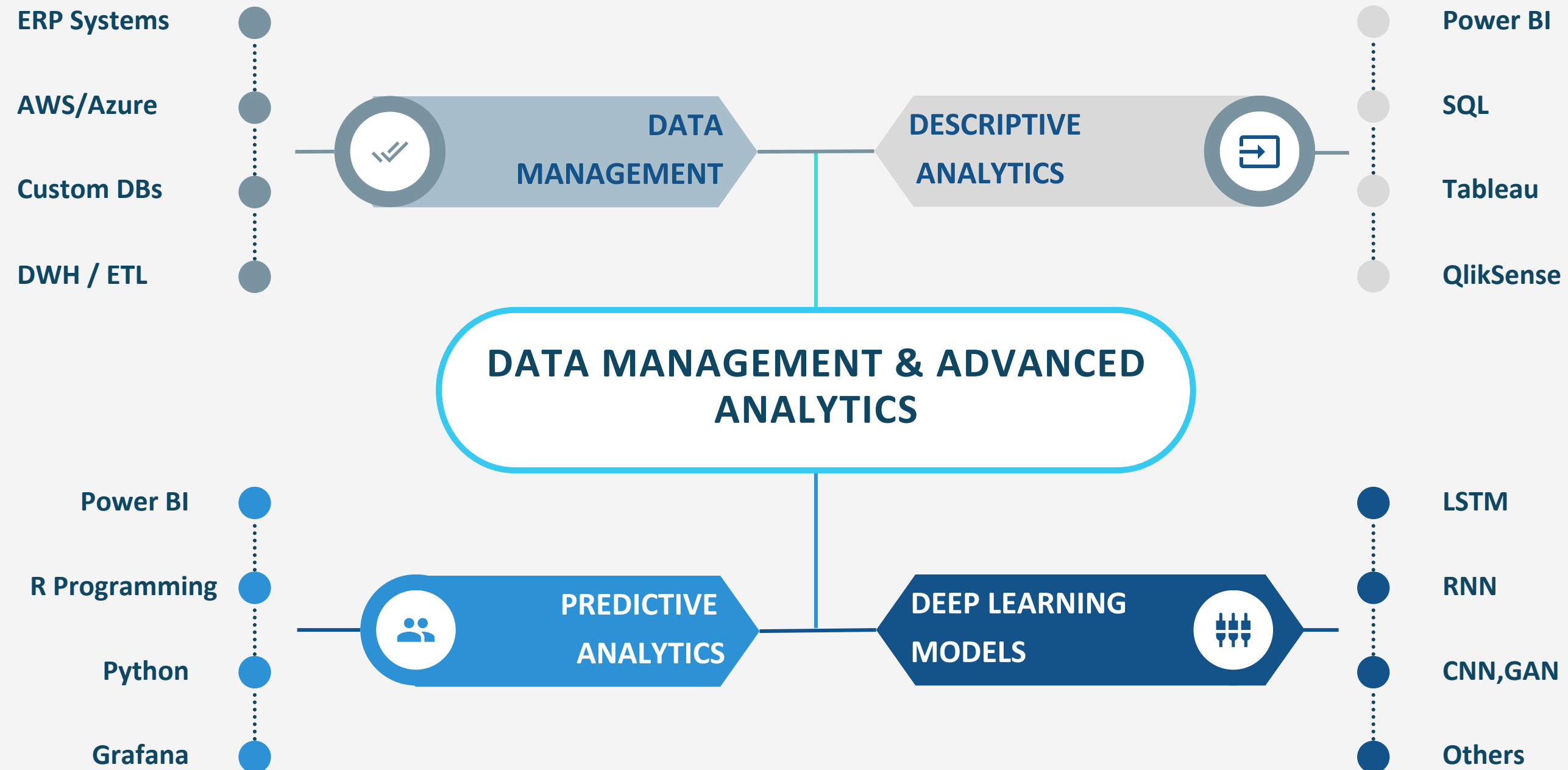


ERP

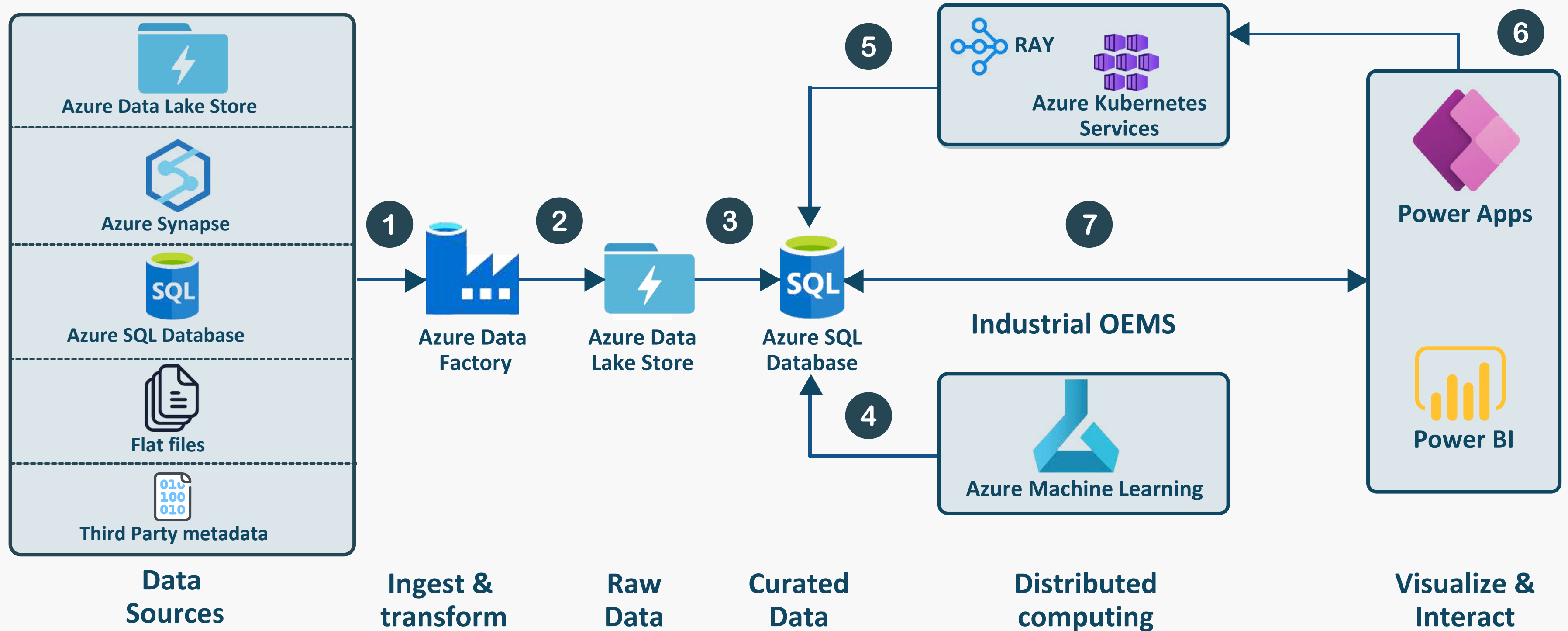
Old-fashioned business intelligence (BI) is no longer significant.



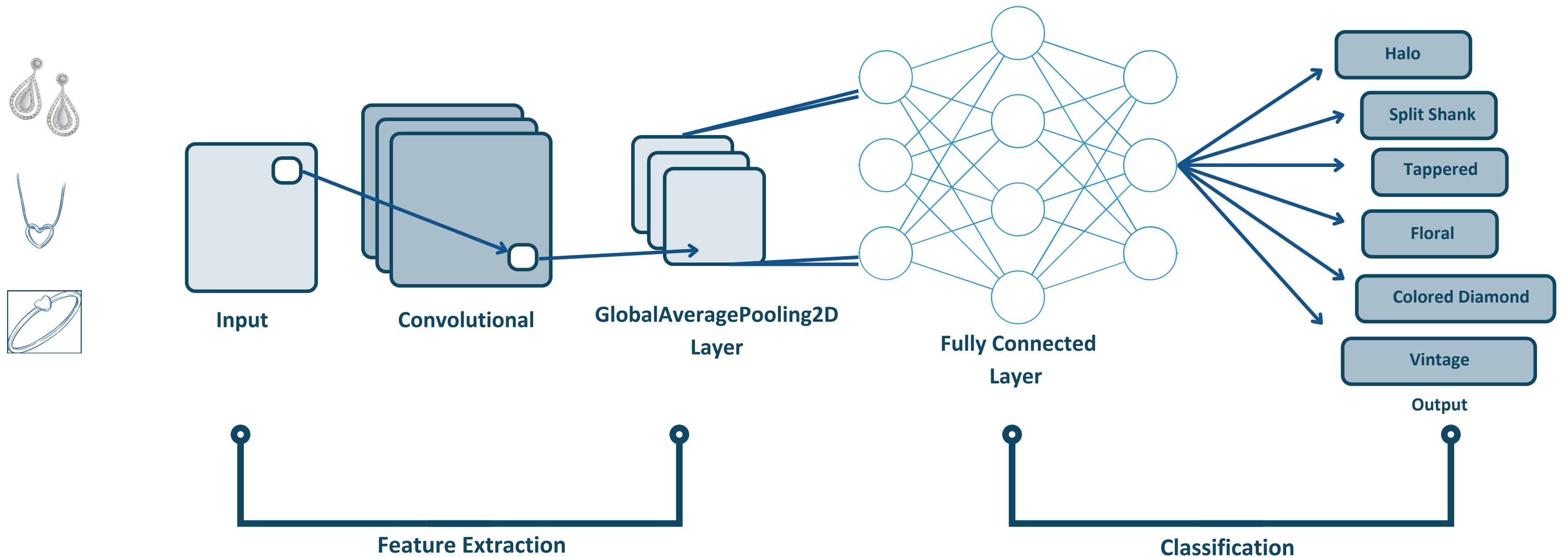
Data Analytics, AI/ML & Generative AI Solutions



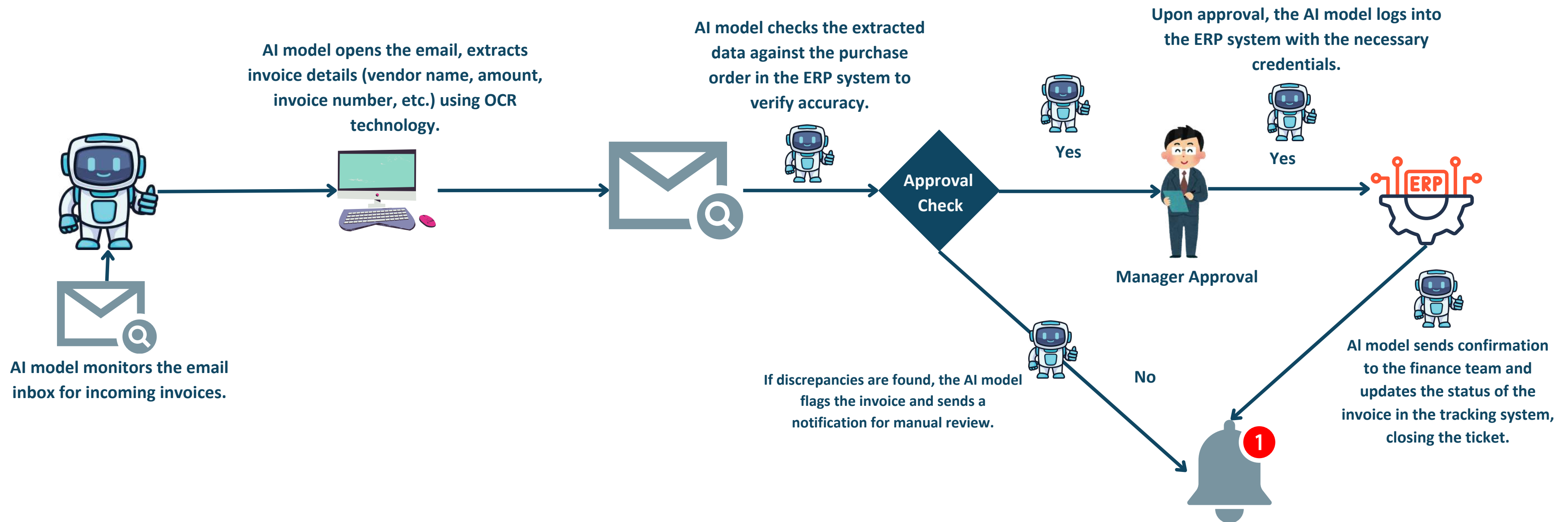
SAMPLE DATA ARCHITECTURE FOR ANALYTICS



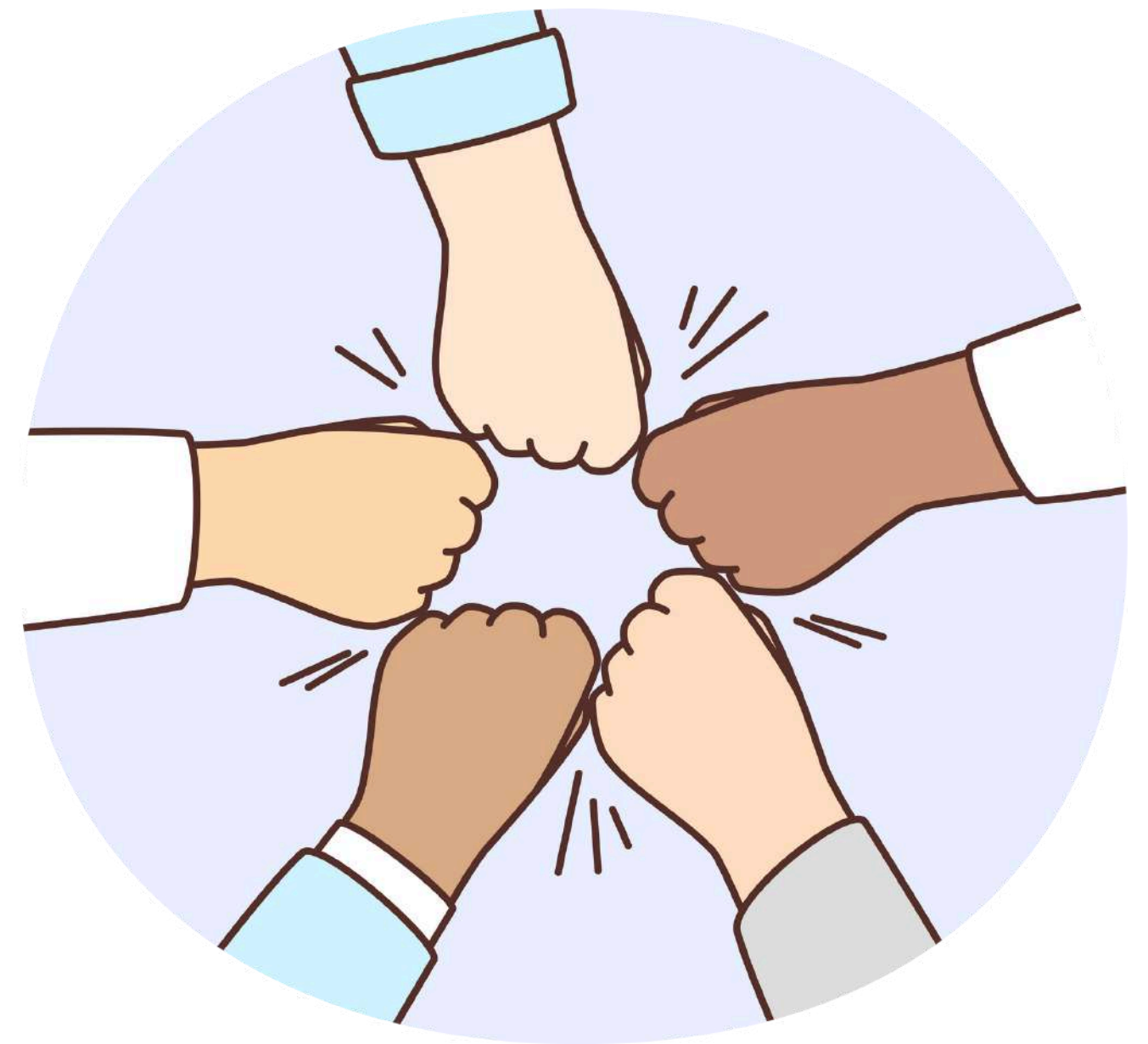
SAMPLE MULTILABEL JEWELRY IMAGE CLASSIFICATION - AI MODEL



SAMPLE ROBOTIC PROCESS AUTOMATION - INVOICE PROCESSING AUTOMATION



Success Stories



AI-Powered Smart Parking Management

Overview

DigiPrima was engaged to assess and transform the client's parking management system, providing an AI-powered solution that leverages CCTV feeds to deliver real-time parking availability, ensuring cost-effective, scalable, and secure operations without the need for IoT-based sensors.

Key Features

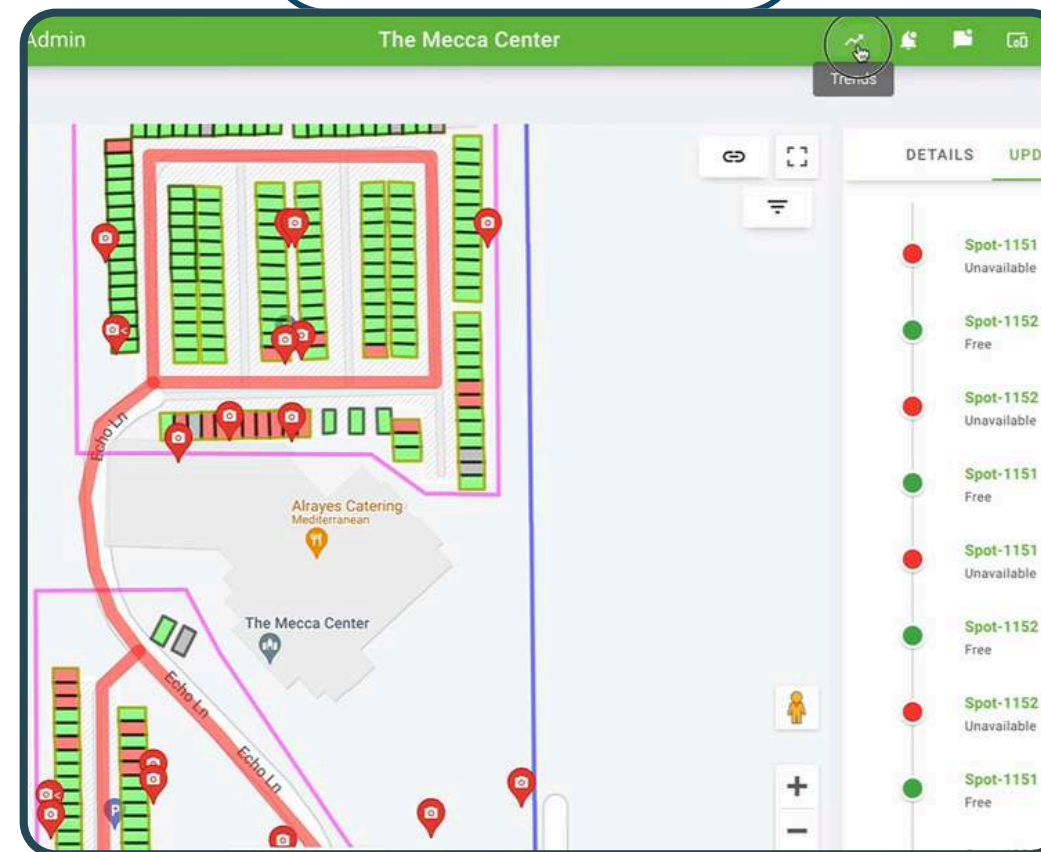
- AI analyzes CCTV feeds for real-time parking availability, replacing costly IoT sensors.
- Offers flexible cloud (Azure) or edge (Jetson) deployment for secure, scalable management.

Challenges

Traditional smart parking systems relied on expensive IoT sensors for each parking spot, making them unsuitable for outdoor lots.

The lack of real-time data on parking availability led to inefficient space utilization and lost revenue for parking lot owners.

Snap Shot



Solutions

- DigiPrima created an AI system using CCTV feeds to provide real-time parking availability without extra sensors.
- The solution offers flexible deployment with cloud (Azure) or edge (Nvidia Jetson) options for secure processing.

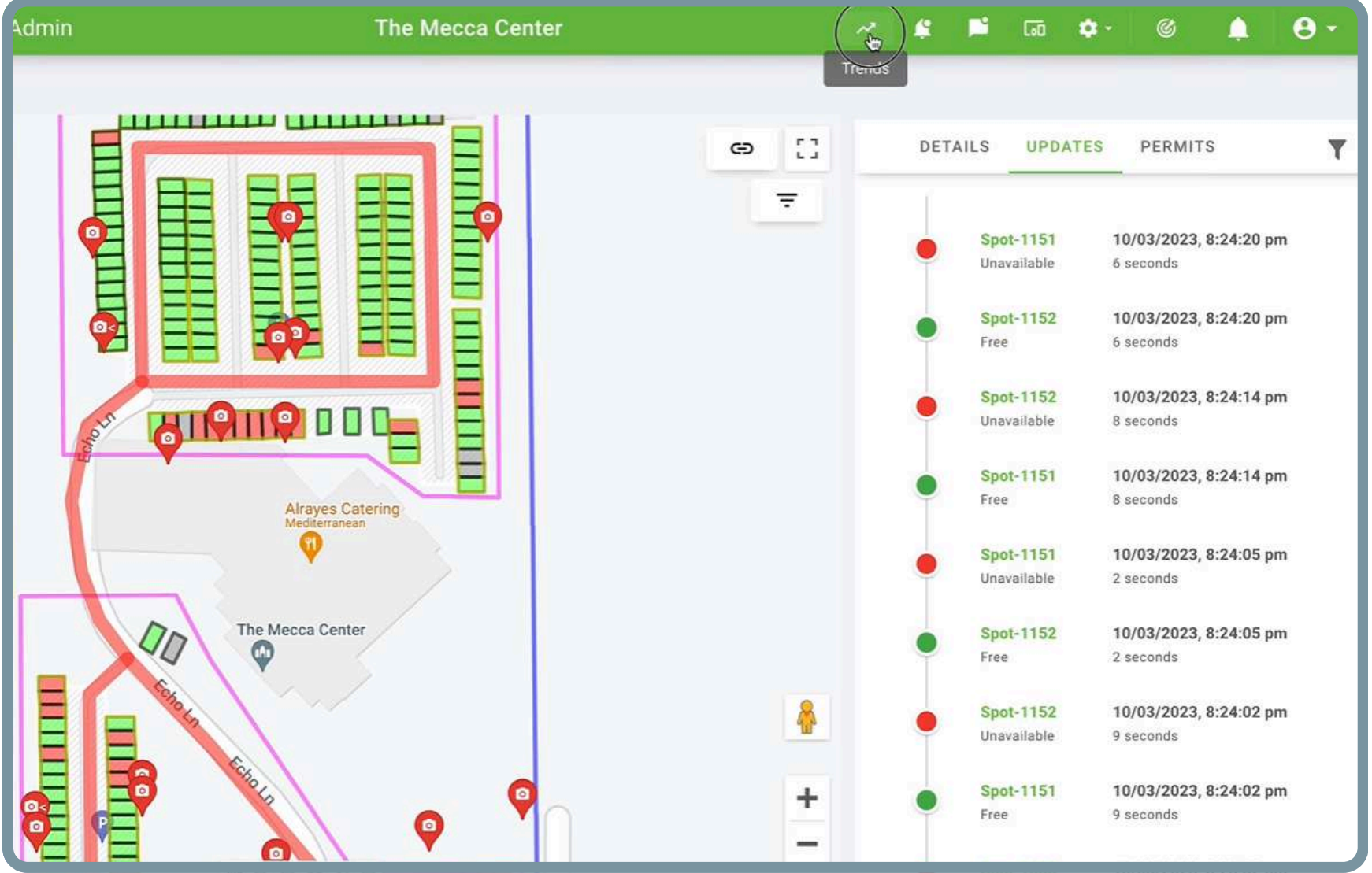
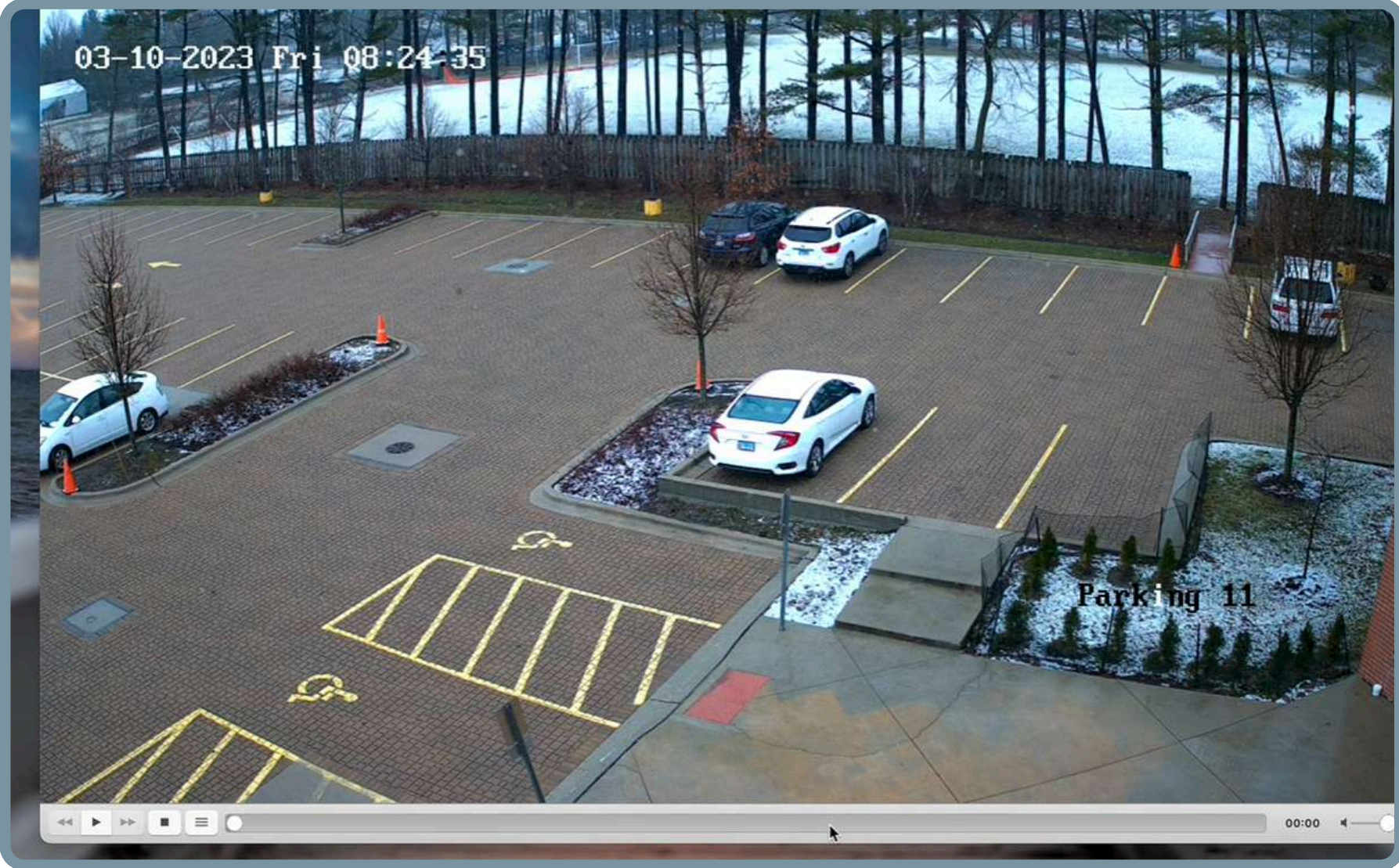
Industry Segment

- Transportation and Parking Management

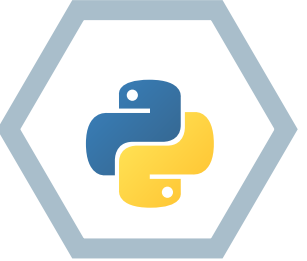
Technology & Tools

- Microsoft Azure
- Nvidia Jetson
- CCTV Cameras
- AI and Machine Learning Models

AI-Powered Smart Parking Management



Tools we Used



AI-Driven Patient Scheduling Optimization

Overview

DigiPrima was engaged to enhance the client's patient scheduling process by implementing an AI and ML-driven solution that analyzes patient records to predict upcoming doctor appointments, seamlessly integrating with their existing ERP system for improved efficiency and proactive health management.

Key Features

- Analyzes patient records to predict upcoming doctor appointments.
- Automates appointment creation and improves patient health tracking.

Challenges

Predicting doctor appointments required accurate analysis of patient records, posing challenges in data integration and forecasting.

The existing scheduling system was inefficient, leading to increased manual effort and difficulty in tracking individual patient health effectively.

Snap Shot



Solutions

- Developed an AI and ML solution to accurately predict doctor appointments from patient records.
- Integrated with the ERP system to automate appointment creation and enhance patient tracking.

Industry Segment

- Healthcare

Technology & Tools

- Python
- TensorFlow
- Power BI
- SAP

AI-Powered Image Classification

Overview *DigiPrima automated the client's manual image classification using AI technology, enhancing the categorization of jewelry products on their e-commerce platform.*

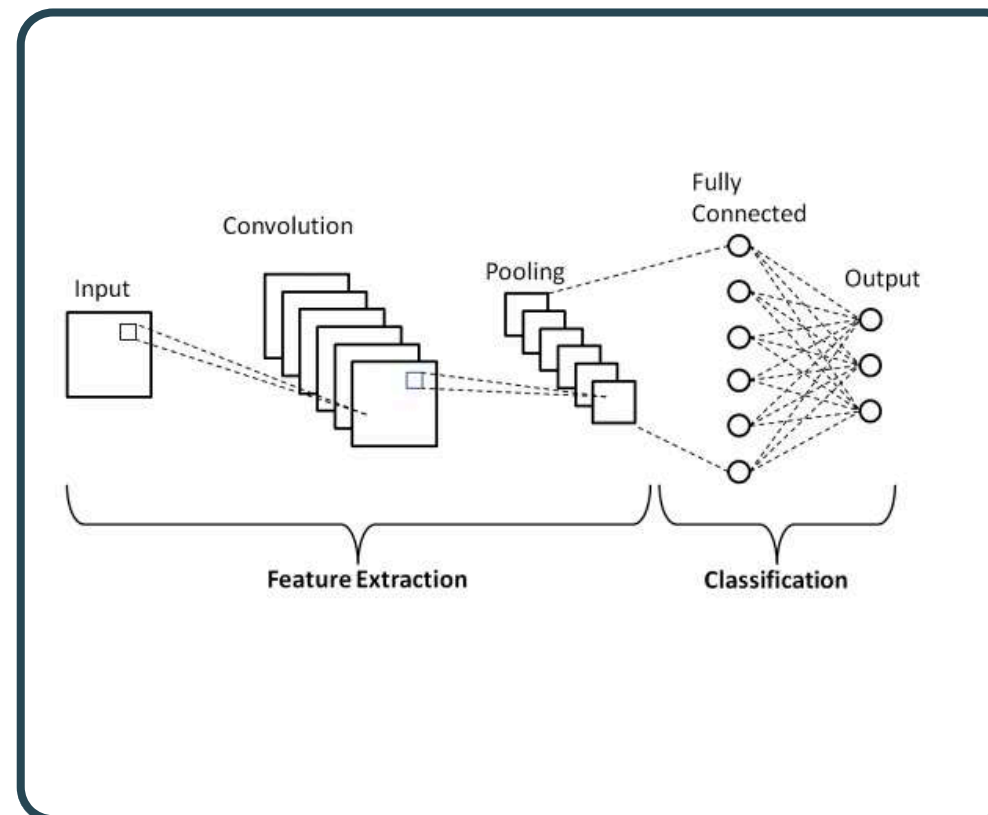
- Key Features**
- Uses deep learning for accurate jewelry image categorization, reducing manual errors.
 - Automatically uploads images to AWS, speeding up B2B product listings.

Challenges

High Volume of Data: Managing and accurately classifying a large volume of jewelry images (2,000 weekly) led to delays and potential errors.

Complex Categorization: Differentiating among 40 product types and various jewelry color variations posed significant challenges in maintaining accuracy.

SAMPLE



Solutions

AI-Powered Automation: Implemented an AI-based solution using the Xception model to automate the image classification process.

Continuous Improvement: Established a feedback loop for ongoing model training and fine-tuning, ensuring the system adapts to new product data.

Industry Segment

- Ecommerce

Technology & Tools

- TensorFlow/Keras
- Pandas and NumPy
- SQL Server
- Python

NLP-Driven Recommendation Engine

Overview *The project creates a personalized movie recommendation system that enhances user engagement by suggesting films based on preferences. It combines collaborative and content-based filtering.*

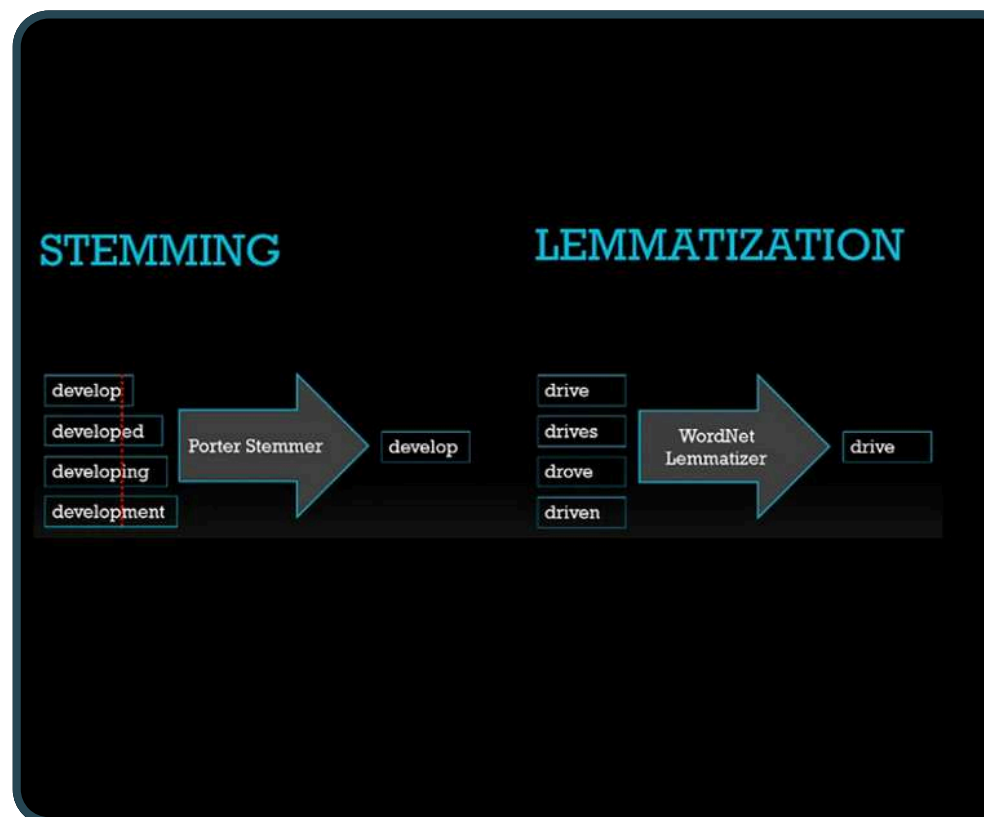
- Key Features**
- Combines collaborative and content-based filtering for precise movie suggestions.
 - Utilizes NLP methods to analyze movie data, enhancing personalization and overall user engagement.

Challenges

Data Volume and Complexity: Analyzing vast amounts of movie data and user interactions to deliver relevant recommendations while maintaining performance and accuracy.

Integrating Diverse Data Sources: Effectively combining various data types, including user ratings and movie attributes, to create a seamless recommendation system.

SAMPLE



Solutions

- **Hybrid Filtering:** Combine collaborative and content-based filtering to provide comprehensive movie recommendations.
- **NLP Techniques:** Use NLP for data preprocessing and similarity analysis to enhance recommendation accuracy.

Industry Segment

- *Media & Entertainment.*

Technology & Tools

- *Scikit-learn*
- *Count vectorization, stemming, lemmatization*
- *Python*

AI-Powered Conversational Analysis

Overview

The project creates an AI application that extracts insights from audio and video discussions, using speech-to-text and machine learning to enhance developer efficiency.

Key Features

- Uses speech-to-text to summarize conversations and extract key action items.
- Leverages machine learning to streamline requirement gathering for developers.

Challenges

Complexity in Implementation: Integrating various AI and ML tools to create a seamless application requires significant development and training effort.

Data Variability: Ensuring accurate insights from diverse conversation styles and formats poses challenges in model training and performance.

Snap Shot



Solutions

- **Targeted Model Training:** Train machine learning models with specific datasets for improved accuracy in insights extraction.
- **Intuitive UI Design:** Create a user-friendly interface to simplify interactions for developers.

Industry Segment

- IT Services

Technology & Tools

- Angular
- TensorFlow
- Keras

B2B E-commerce Analytics Solution

Overview

We develop an analytics solution for real-time reporting and visualization, featuring a dashboard for sales insights and return analysis to enhance inventory decisions and reporting efficiency.

Key Features

- Intuitive Power BI dashboard offering instant insights into sales, special order and returns.
- Integrated dashboard with the client's site for easy access,

Challenges

Manual Reporting: Using Excel and paper documentation made reporting cumbersome and limited real-time insights.

Ineffective Data Visualization: Lack of integration and interactivity in data visualization hindered trend analysis and timely decision-making.

Snap Shot



Solutions

Intuitive Dashboard: Created a Power BI dashboard to provide real-time insights into sales, special orders, and return analysis.

Data Integration and Automation: Integrated the dashboard with the client's website and implemented stored procedures in SQL Server.

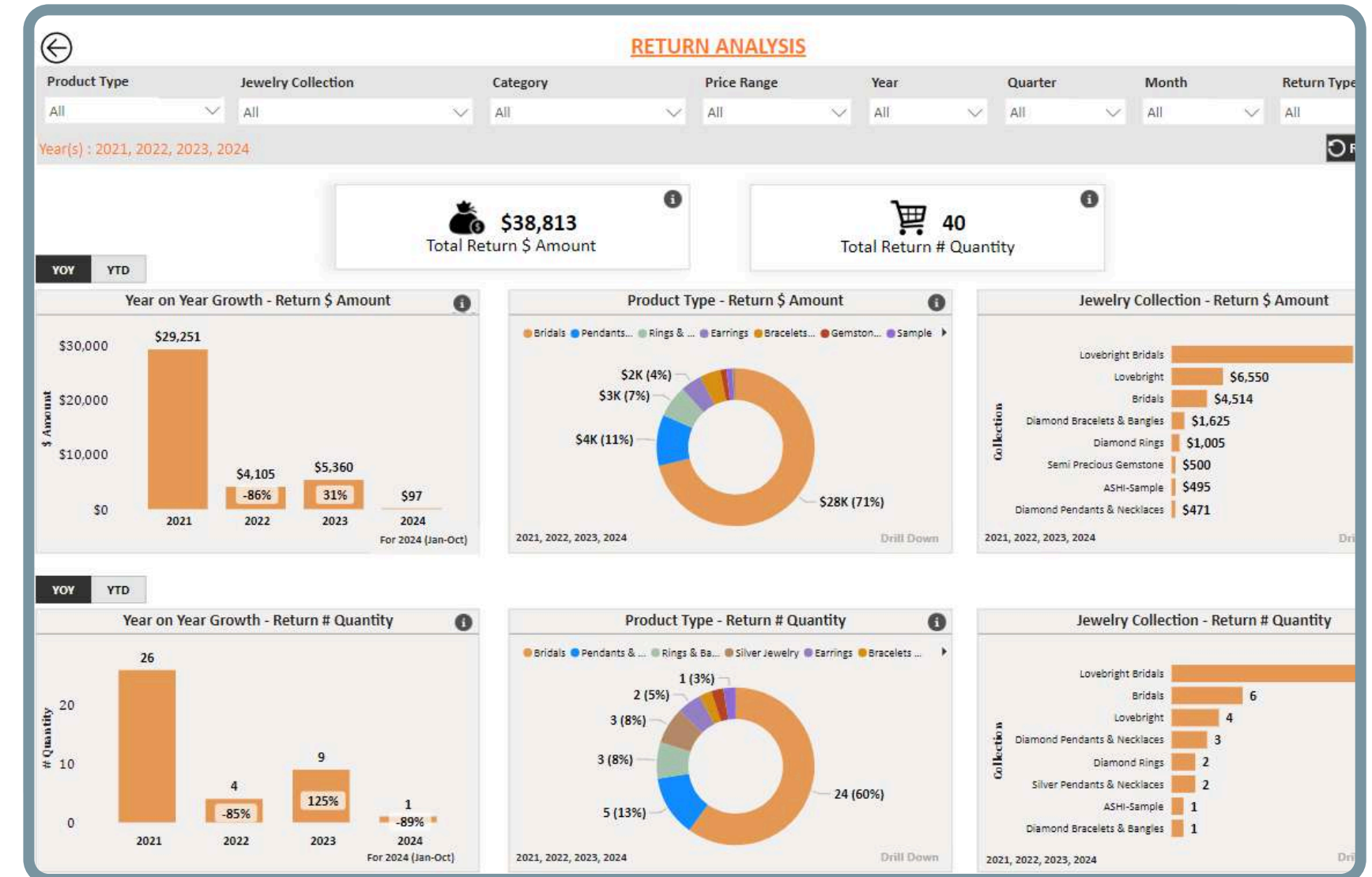
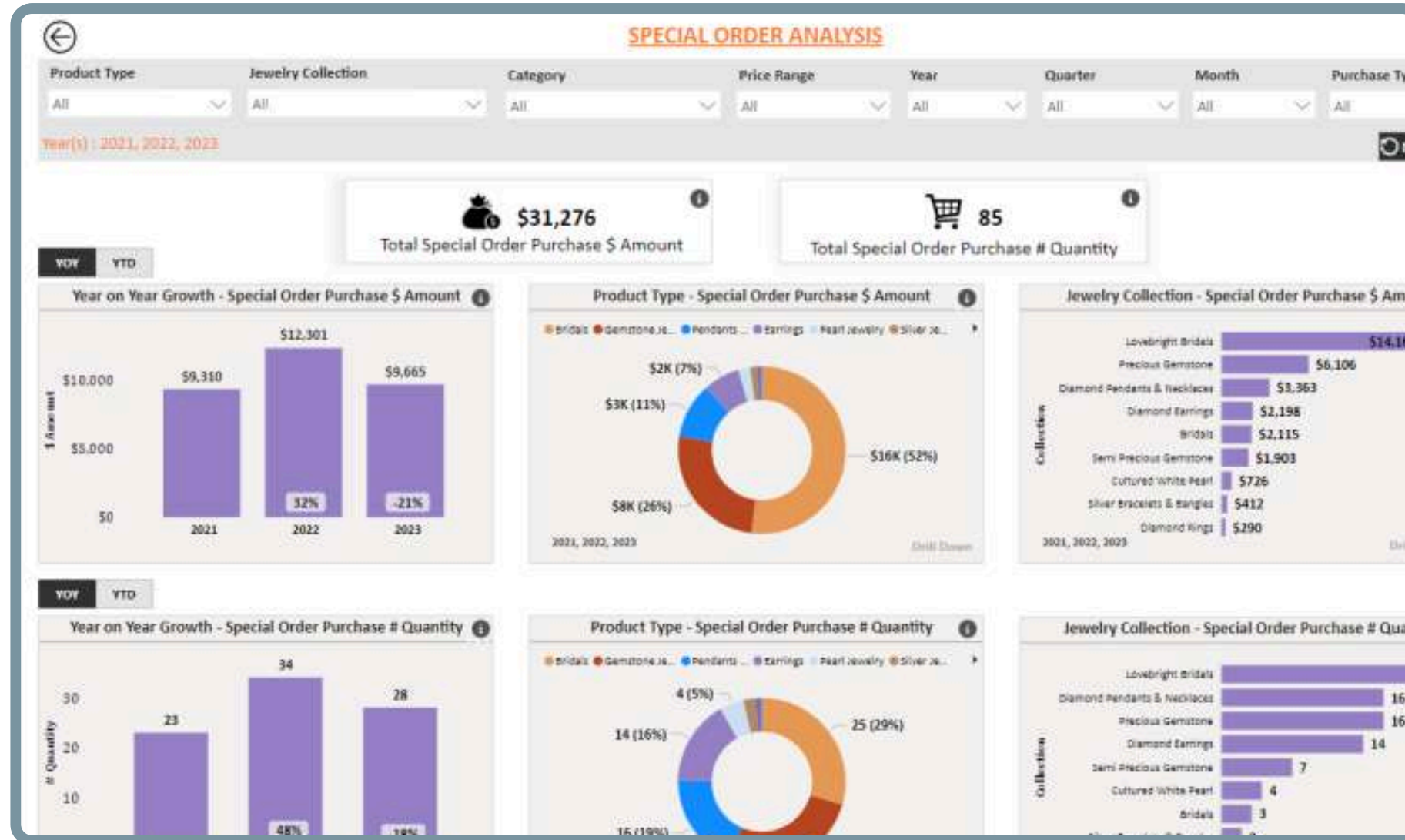
Industry Segment

- Ecommerce

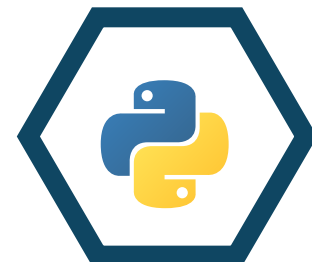
Technology & Tools

- Microsoft Power BI
- SQL Server
- Python

B2B E-commerce Analytics Solution



Tools we Used



Transforming Oil & Gas Analytics

Overview

DigiPrima transitioned the client from a legacy data warehouse to the SAP Business Technology Platform, enhancing data management and analytics with tools like SAP Datasphere and Power BI.

Key Features

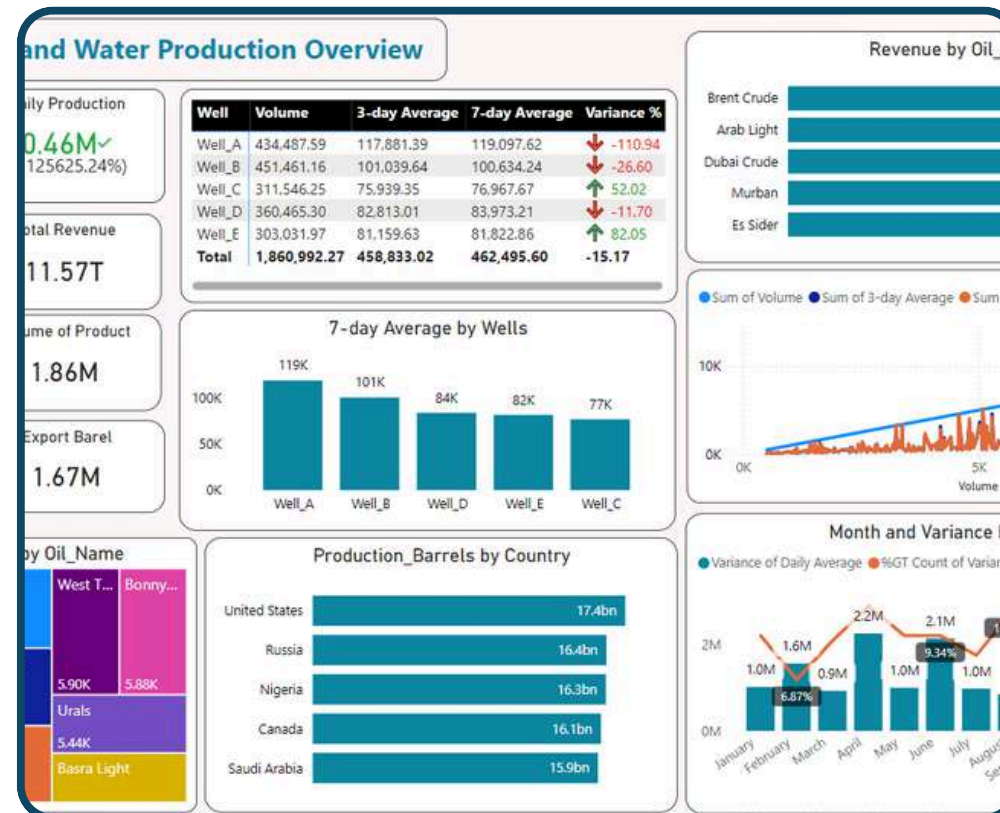
The streamlined analytics landscape improved reporting efficiency by reducing manual input time. Azure Data Lake, Synapse Analytics, and Power BI enabled quick access to insights for timely decision-making.

Challenges

Data Separation: Outdated systems kept data in separate locations, making it hard to see everything together and integrate different data sources.

Slow Reporting: Manual reporting took a long time, slowing down decision-making and making it difficult to adapt to changing business needs.

Snap Shot



Solutions

Unified Analytics Platform:

Implemented SAP Datasphere, SAP Analytics Cloud, Power BI, and Azure services to integrate data from SAP and non-SAP sources for better insights.

Self-Service Analytics:

Enabled Power BI for self-service analytics, empowering users with faster access to insights.

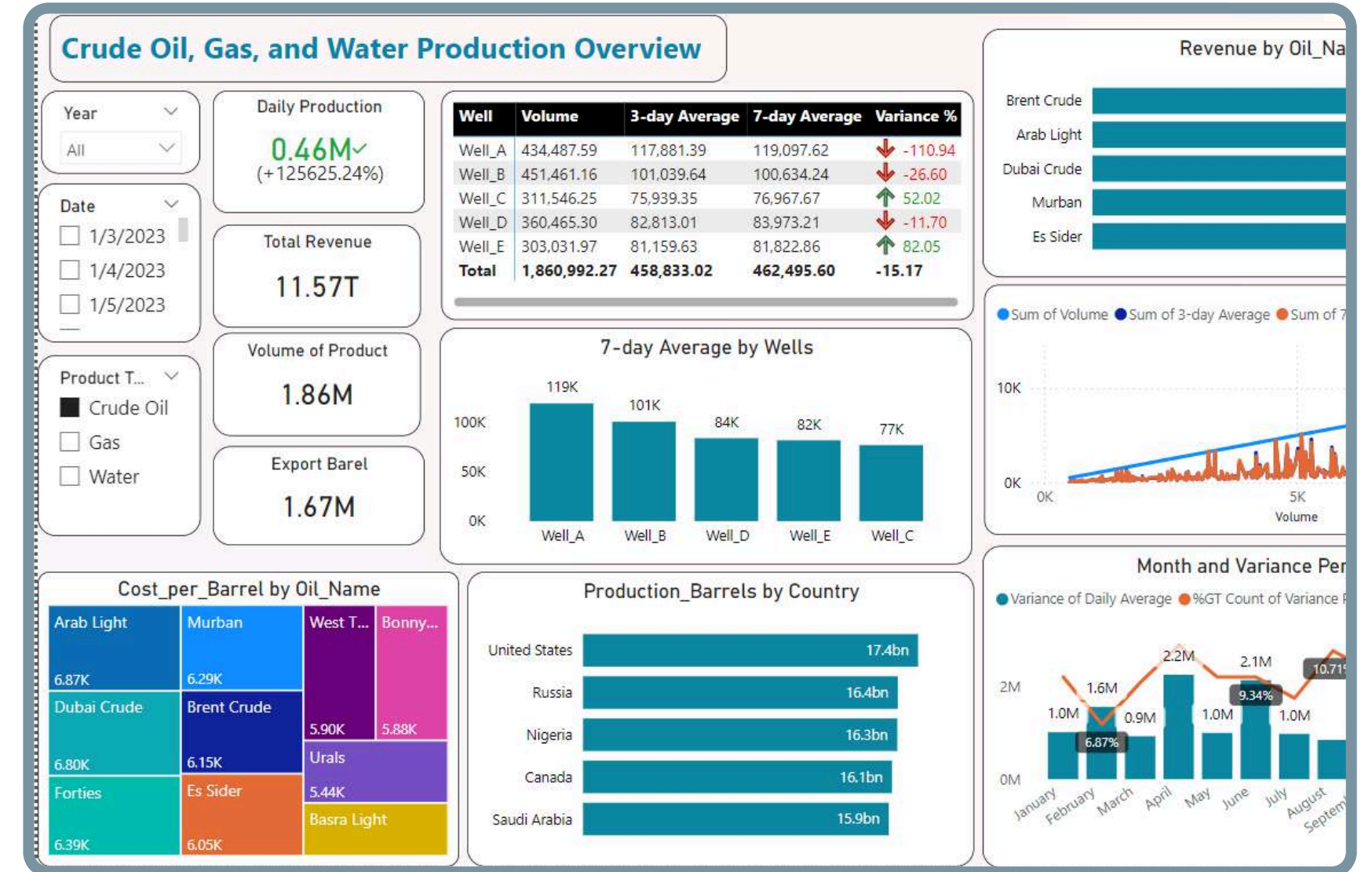
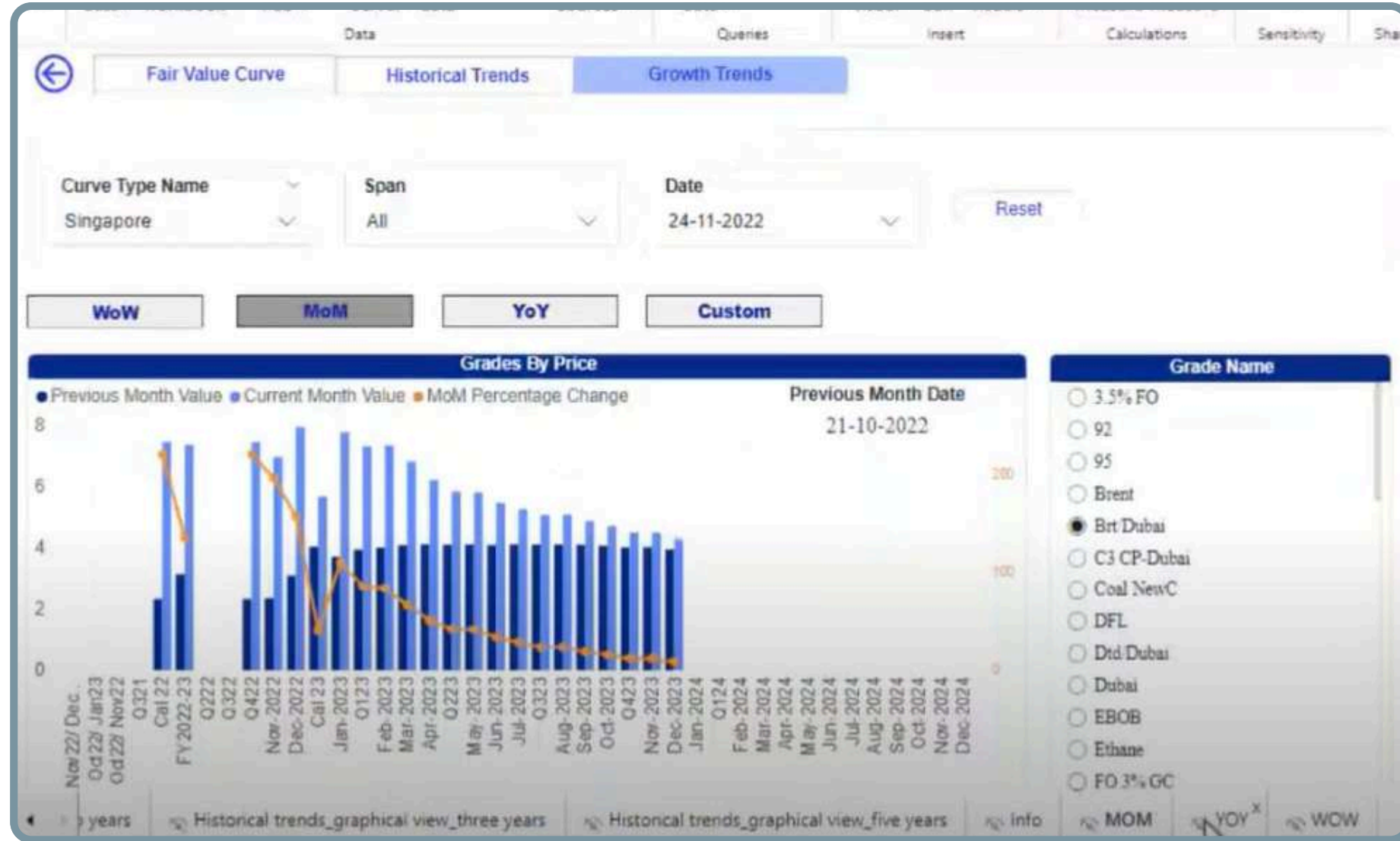
Industry Segment

- Oil & Gas

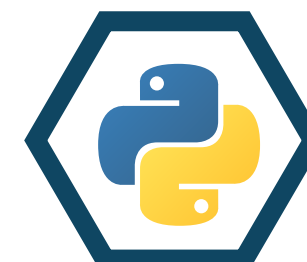
Technology & Tools

- SAP Datasphere, Azure Data Lake, Azure Synapse Analytics
- Power BI

Transforming Oil & Gas Analytics



Tools we Used



Data Integration and Reporting

Overview

DigiPrima was engaged to assess and support the client's data integration and BI initiatives, ensuring a scalable EDW with optimized performance and governance.

Key Features

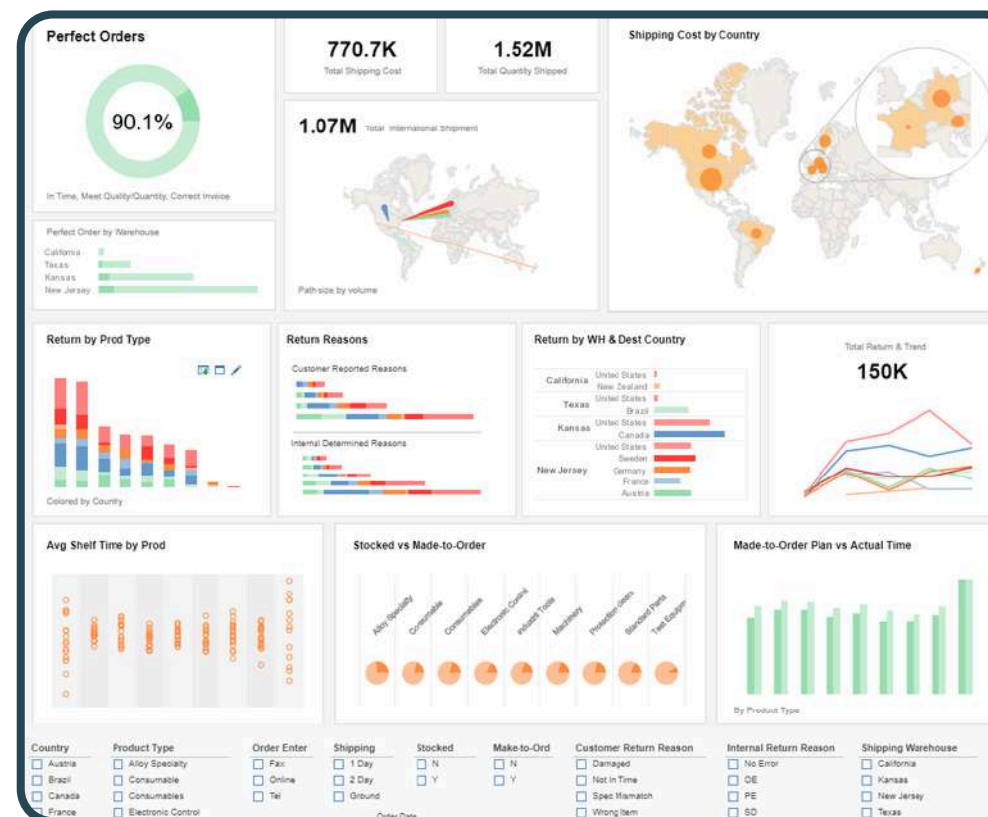
- Integrated multiple ERP systems into a unified EDW using Azure Data Factory and SQL Server.
- Optimized Power BI and ETL for accurate, real-time reporting and data consistency.

Challenges

Data Fragmentation: Multiple ERP systems caused inconsistent reporting and limited scalability, complicating data integration.

Scheduling Failures: Frequent data integration failures led to reporting discrepancies, hindering decision-making and performance.

Snap Shot



Solutions

Unified Data Integration: Built a scalable EDW to consolidate data from multiple ERP systems for consistent reporting.

Automated ETL: Improved data integration with automated scheduling for real-time updates and reduced discrepancies.

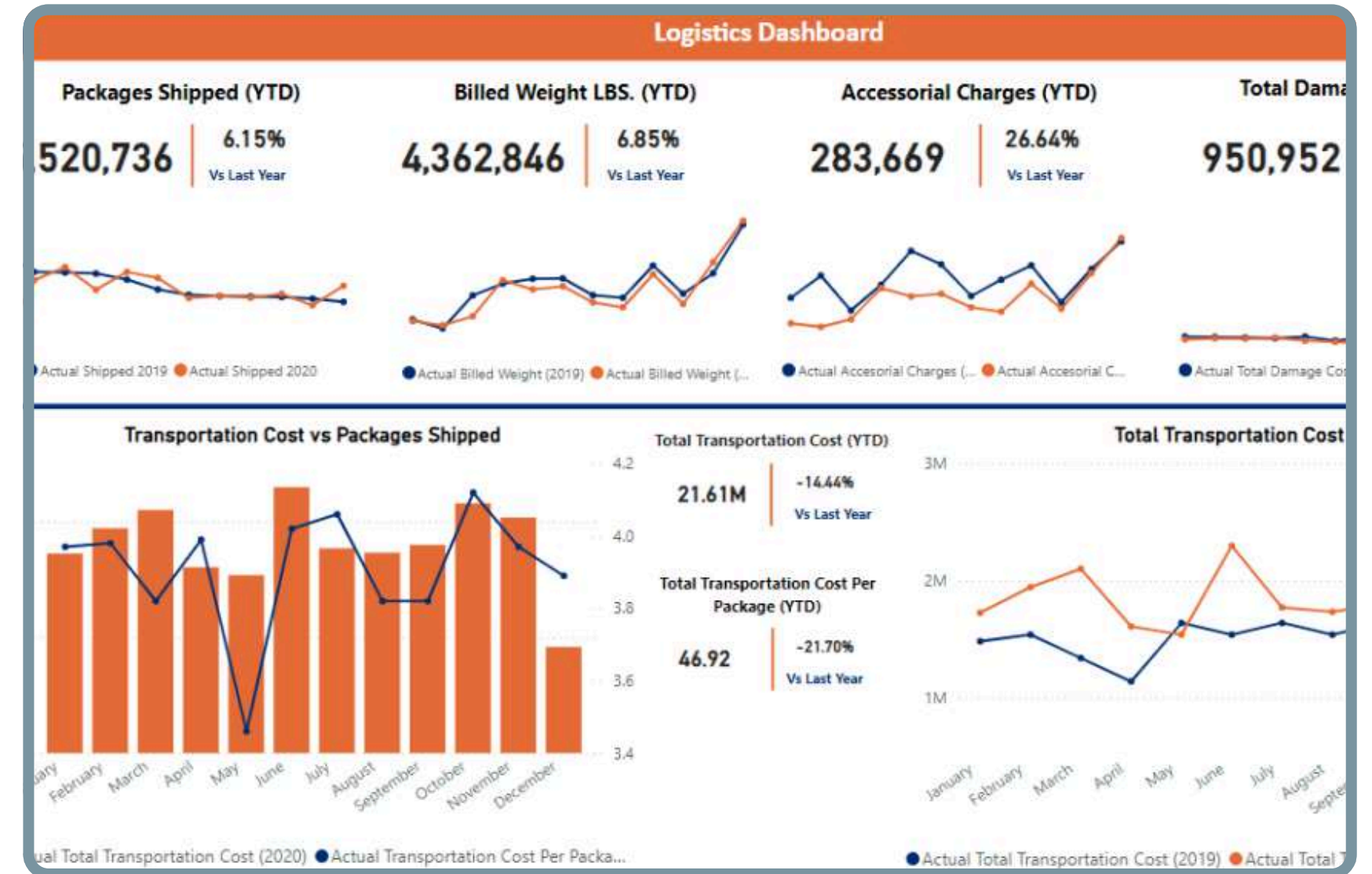
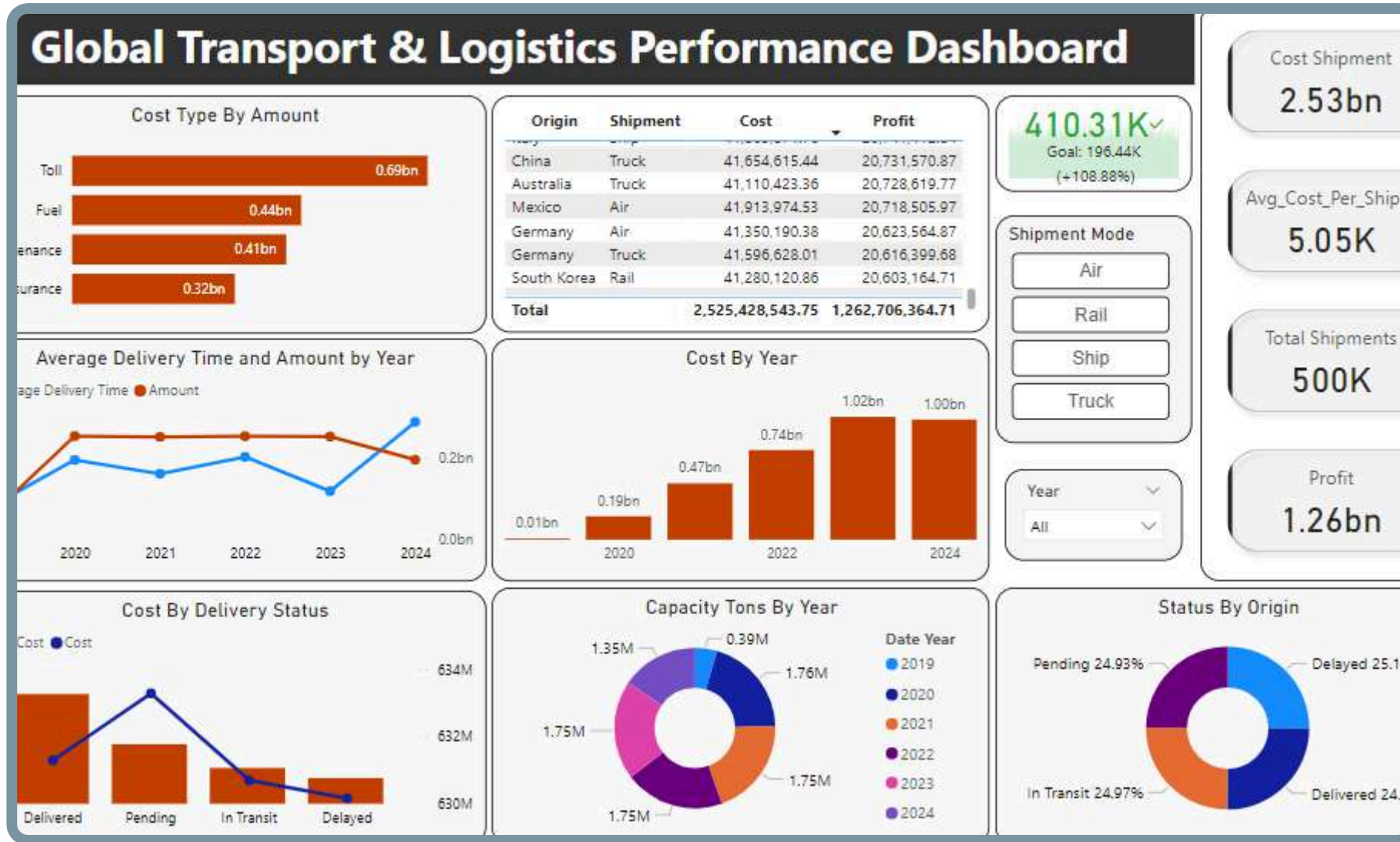
Industry Segment

- industrial instrumentation and automation

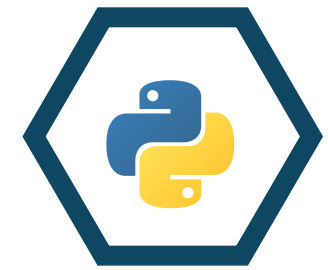
Technology & Tools

- Microsoft Power BI
- Azure Data Factory
- SQL Server
- Python

Data Integration and Reporting



Tools we Used





Thank you

We Look Forward To Working With You

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 **www.digiprima.com**

