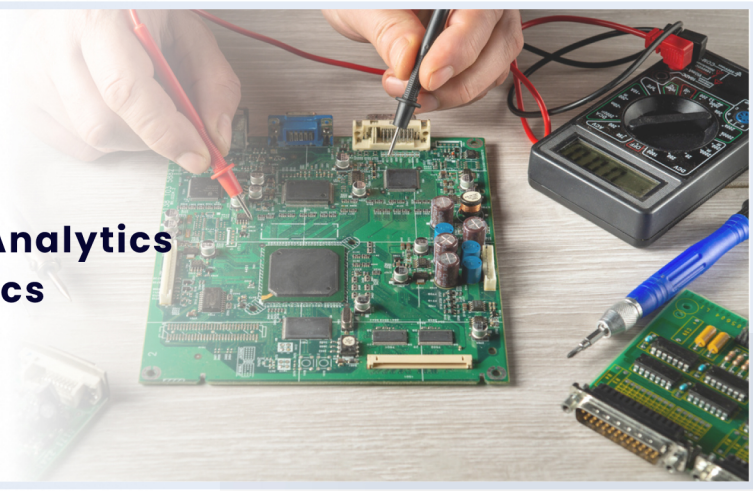
DataToBiz

Implementing A Managed Analytics Framework For An Electronics Manufacturer



ABOUT CLIENT

Based in the UAE, this electronic manufacturer focuses on producing consumer electronics and high-tech components. The company is widely recognized for its innovative product range, catering to a diverse consumer base that includes major retailers, distributors, and original equipment manufacturers (OEMs) across continents. With a strong commitment to cutting-edge technology and quality, the company has firmly established itself as a leading player in the continuously evolving electronics space.

PROBLEM STATEMENT

Amid business expansion, the client faced several challenges in managing its growing data ecosystem. The need to address these challenges became crucial for enhancing the efficiency of the client's data infrastructure.

Data Fragmentation: The client struggled with obtaining a complete data overview due to scattered sources and isolated systems, resulting in fragmented data across their system.

Manual Reporting: Existing manual reporting mechanisms were time-consuming and lacked real-time insights, impeding prompt and informed decision-making processes.

Rising Compliance Concerns: In the electronic manufacturing industry, subject to strict regulations, the client faced challenges ensuring data governance and compliance with rising industry standards.

Limited Scalability: As the business expanded, the existing analytics infrastructure encountered scalability issues, impeding its ability to handle the increasing amounts of data.

SOLUTIONS

Our team of data analysts, in collaboration with the client's internal management, addressed challenges by implementing a comprehensive managed analytics solution with key components:

Implementation of a Data Warehouse

- **Assessment:** Our data engineers conducted a thorough assessment of the existing data landscape to understand sources, quality, and integration challenges.
- **Design and Architecture:** We implemented a centralized data warehouse, consolidating data from various sources and ensuring a unified data pipeline.
- **ETL Processes:** Deployed Extract, Transform, and Load (ETL) processes to ensure a timely and accurate flow of information into the data warehouse.
- **Scalability**: Designed the data warehouse architecture with scalability in mind to accommodate the client's growing data needs.

Data Governance Framework

- **Policy Development:** Collaborated with the client to establish comprehensive data governance policies, defining data ownership, quality standards, and access controls.
- **Implementation of Compliance Measures:** Implemented a robust framework to ensure adherence to industry regulations, incorporating features like data encryption, audit trails, and role-based access controls within the internal team.
- **Monitoring and Auditing:** Established active communication channels, a strong feedback loop, and continuous monitoring and auditing mechanisms to track data usage, identify anomalies, and ensure compliance with regulatory requirements.

Industry

Manufacturing (Electronics)

Products used

Managed Analytics and Data Governance Framework

Functionality Enable

Data science

Impact

30%
Reduction in time to access critical information

29%
Improved reporting efficiency in real-time.

50%
Reduction in the risk of non-compliance

38%
Increase in data volume without compromising performance.

pro tip

Before outsourcing, take a high-level inventory of your data assets. Understand what data you have, where it sits, its quality, and potential gaps.

Take the next step

Invest in managed analytics today for data-driven manufacturing success