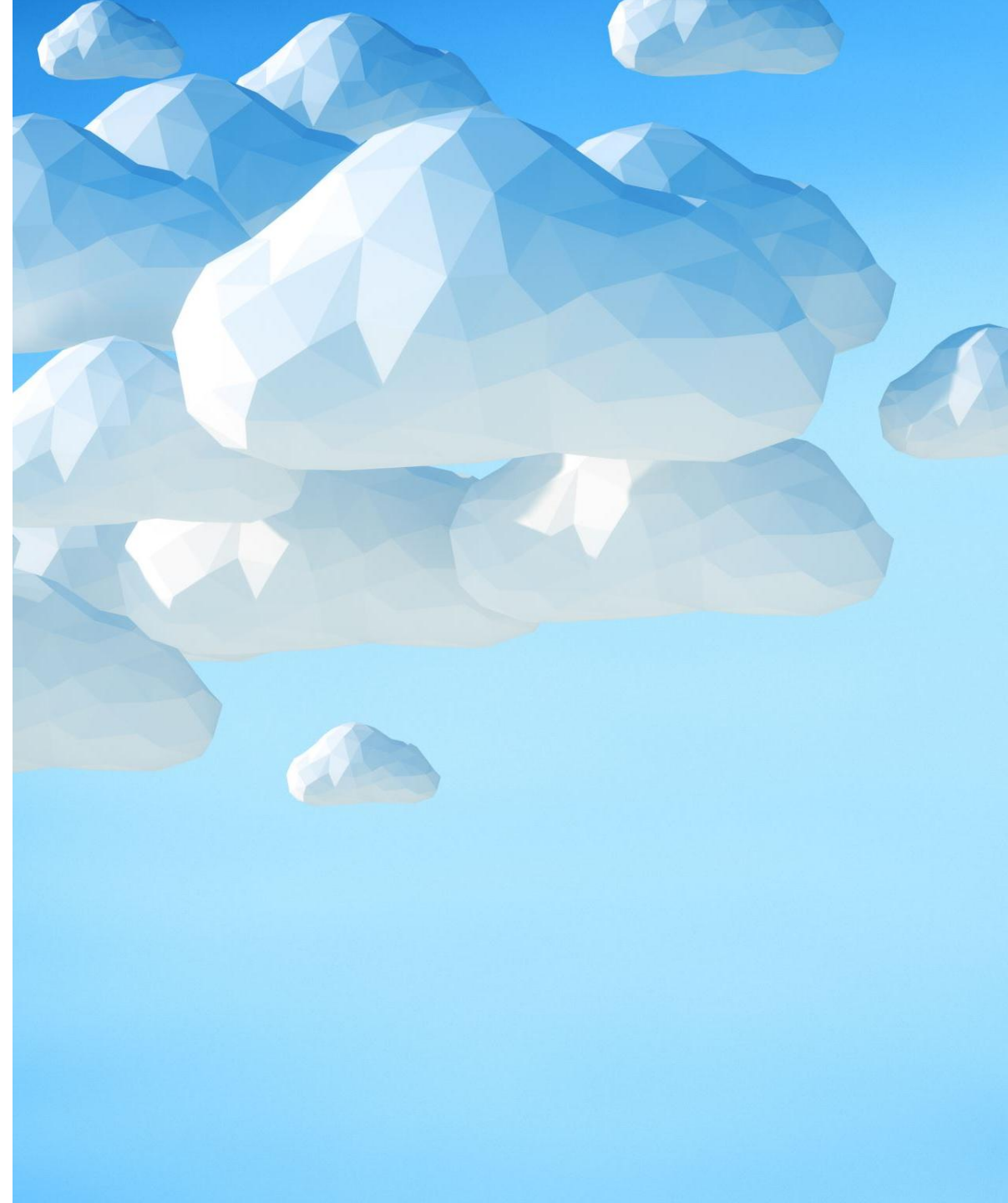

SOFA SO GOOD CLOUD ARCHITECTURE

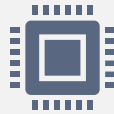
Emmanuel Falonipe



INTRODUCTION: UNLOCKING THE POWER OF SOFA- SO-GOOD'S DATA



In today's dynamic business environment, data is a critical asset for Sofa-so-good.



The increasing volume and variety of data necessitate a modern, scalable solution.



This project addresses the need to overcome data silos and gain a unified view of business operations.



Our goal is to build a robust and scalable cloud-based data infrastructure for easy data access and informed decision-making.

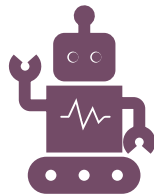
PROJECT OBJECTIVE AND PURPOSE

OBJECTIVE: TO BUILD A ROBUST AND SCALABLE DATA INFRASTRUCTURE THAT ENABLES SOFA-SO-GOOD TO GAIN EASY ACCESS TO BUSINESS DATA.

PURPOSE



Centralize and integrate disparate data sources.



Automate data processing and transformation for efficiency.



Enable easy data retrieval for advanced analytics and reporting.



Provide a single source of truth for all business data.

MISSION

TO DESIGN AND IMPLEMENT A HIGH-PERFORMANCE, RELIABLE DATA ENGINEERING PIPELINE THAT ENSURES ACCURATE, READILY ACCESSIBLE, AND CONSISTENTLY AVAILABLE DATA, EMPOWERING SOFA-SO-GOOD WITH A FOUNDATIONAL INFRASTRUCTURE FOR FUTURE ANALYTICS AND OPERATIONAL IMPROVEMENTS.

GOALS



Centralize Data: Create a unified repository for easy access and informed decision-making.



Optimize Data Flow and Pipeline Efficiency: Improve data workflows by integrating real-time insights and automation for seamless processing and enhanced performance.



Future-Proof Data Pipelines: Build adaptable data engineering systems that prioritize cost-efficiency, optimization, and reliability.

DESIGN PHASE

- Which are our data sources?
 - Structured, Unstructured?
- How data will be used?
- Who will be using the data?



DATA INPUTS



Sales Transaction
Data (Physical stores)

Type: Structured
Ingestion: Batch



E-Commerce Data

Type: Structured
Ingestion: Batch



Warehouse
Operational Data

Type: Structured
Ingestion: Batch



Website Logs

Type: Unstructured
Ingestion: Batch

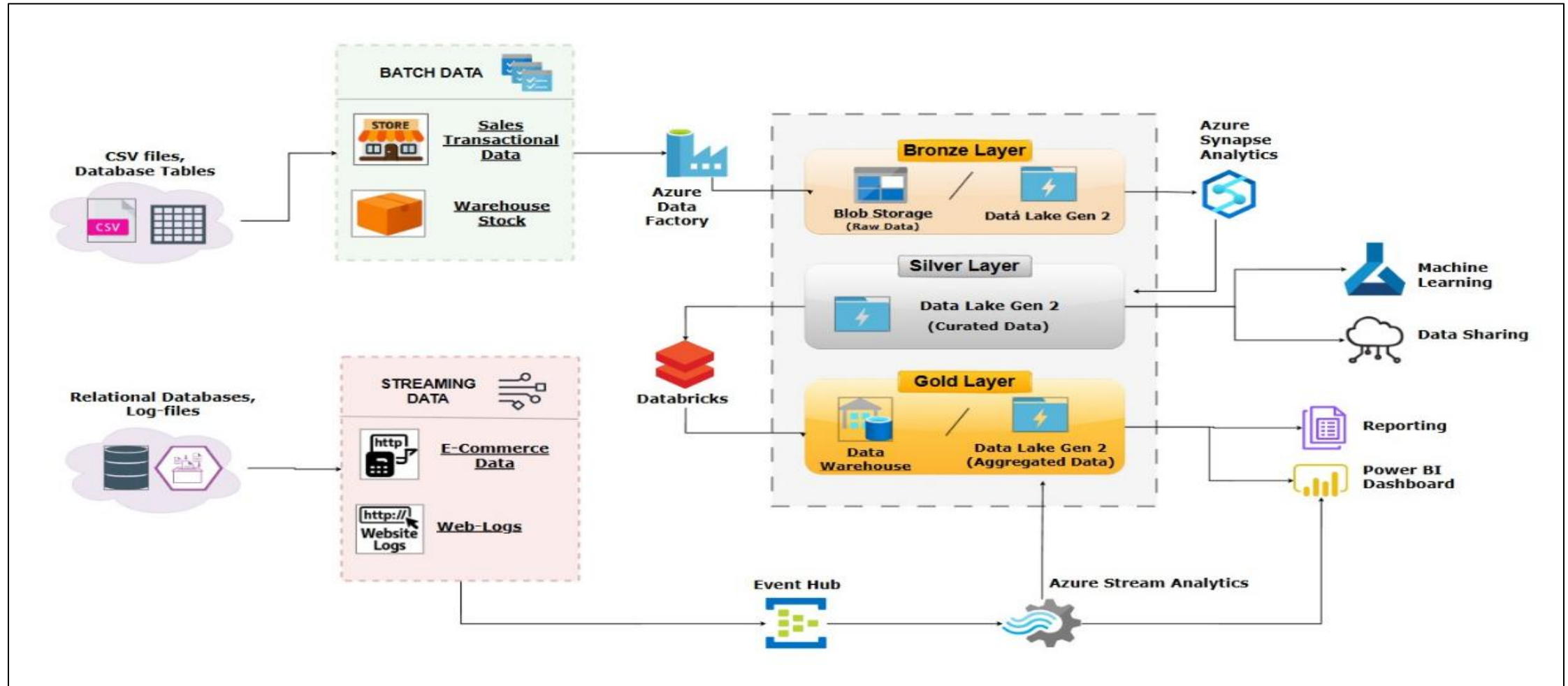


DATA OUTPUTS/DELIVERABLES

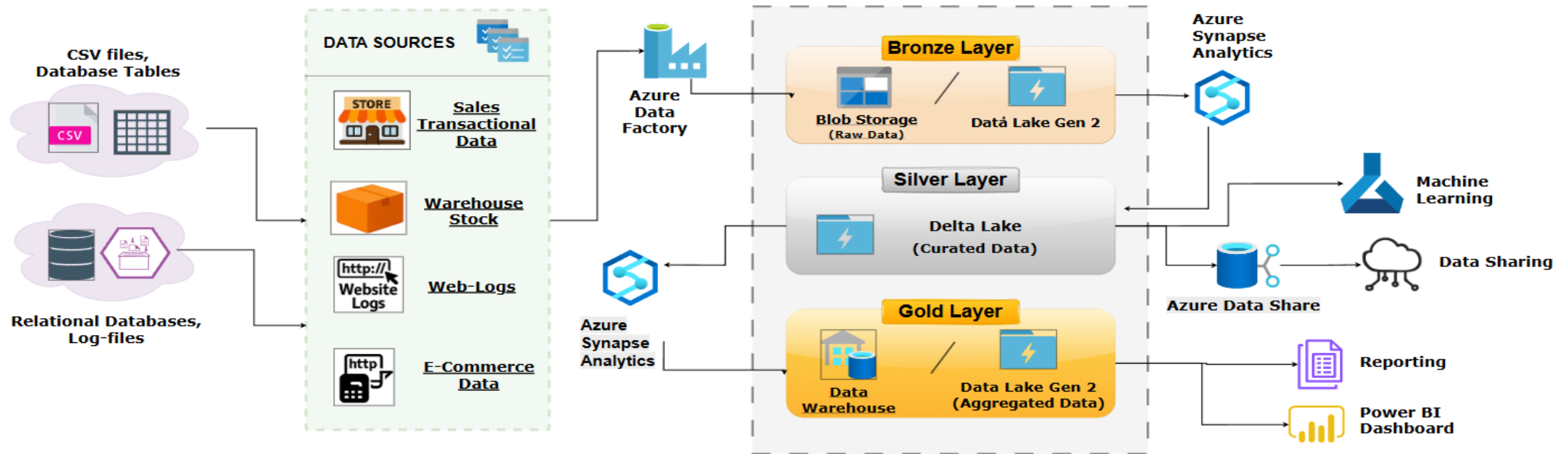
- Sales Performance Dashboards
- Inventory Management Reports
- Customer Segmentation Reports
- Sales Forecasting Reports
- Web Segmentation Dashboards



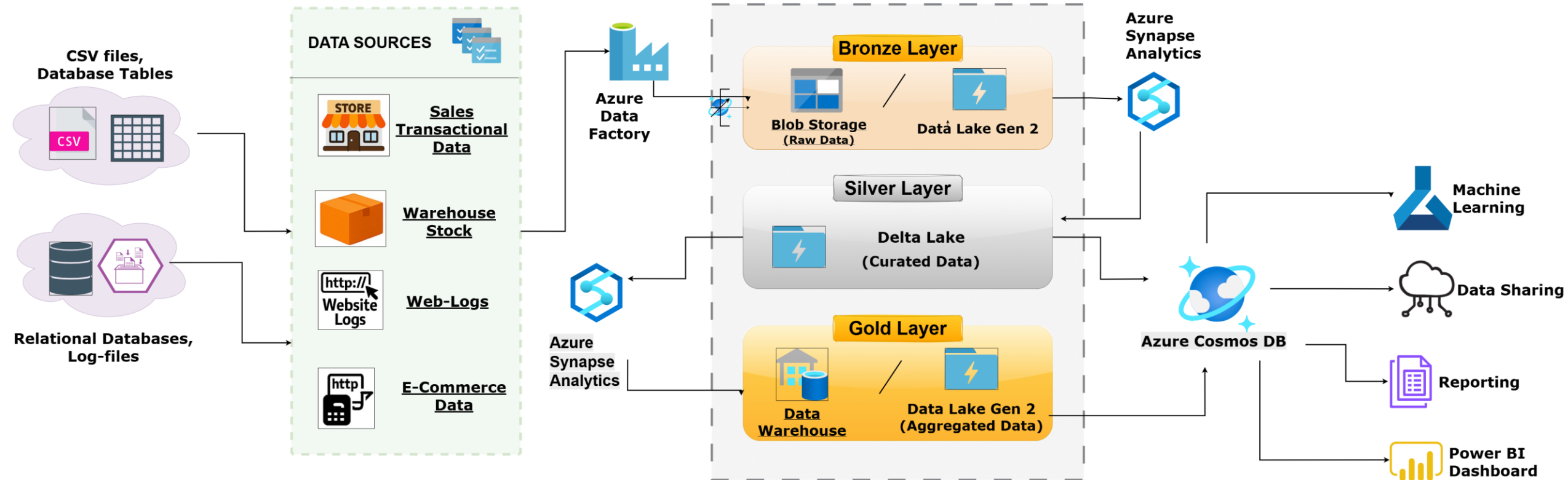
CLOUD ARCHITECTURE: PHASE 1



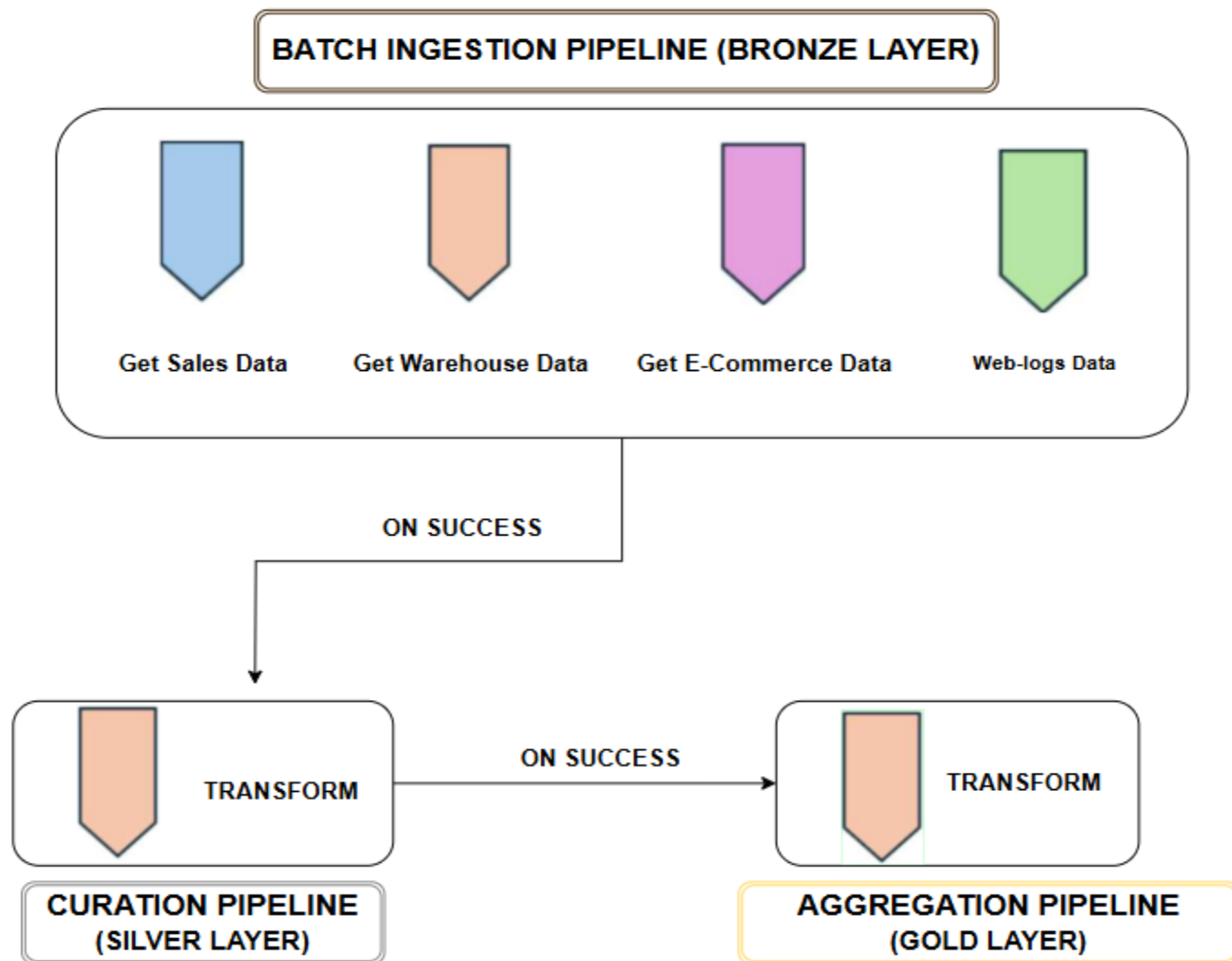
CLOUD ARCHITECTURE: PHASE 2



CLOUD ARCHITECTURE: PHASE 3



MASTER PIPELINE FLOWCHART



CONCLUSION

To conclude, our proposed cloud architecture is more than just a tech stack—it's a strategic initiative to help Sofa-so-good scale operations, improve decisions, and stay competitive through smart data usage.

This architecture not only take into consideration technical development but also is a cost effective and optimized solution according to business requirements.

TEAM CONTRIBUTION



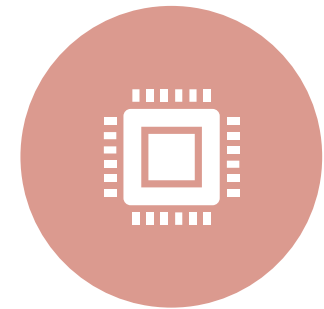
JESUS MEDINA:
RESEARCH AND
PLANNING



SWARA PATEL:
DOCUMENTATION AND
PRESENTATION



EMMANUEL FALONPE:
VISUALIZATION AND
OUTPUTS



PRAVEEN CHAUDHARY:
DATA ENGINEERING
DESIGN.

THANK-YOU
