

## **Enterprise Data Warehousing & Lakehouse Implementation**

### **Overview**

Enterprises need scalable storage architectures that support analytics, governance, and AI. Traditional data warehouses are reliable but rigid; data lakes are flexible but lack structure. A **lakehouse** combines the best of both.

### **Architectural Approach**

- Centralized governance and metadata
- Tiered storage (cold, warm, hot data)
- Unified access via SQL, ML, APIs

### **Technologies**

Snowflake | Databricks | BigQuery | Azure Synapse | Redshift | Delta Lake

### **Expected Outcomes**

- Seamless AI/ML integration
- Lower cost storage with high performance

Standardized enterprise data taxonomy