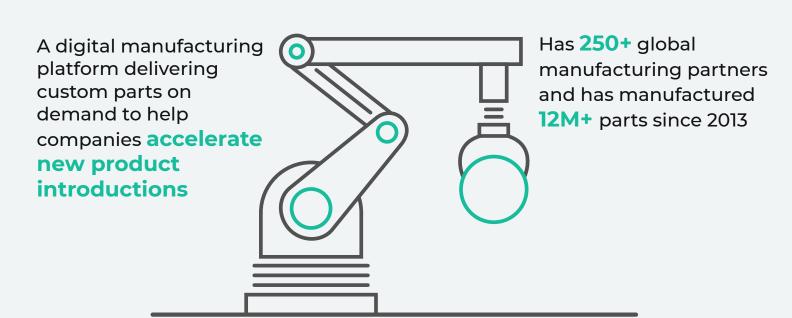
Implemented Snowflake data warehousing solution for a digital manufacturing platform that achieved high scalability, low maintenance, and improved analytics performance

## **About the Client**



Caters to the Silicon Valley innovators besides the healthcare, automotive, aerospace, and consumer electronics industries

## **Business Needs**

Replace Redshift and other complex data warehousing systems with an easily maintainable and cost-effective solution

architecture and design principles for decoupling existing front-end and backend ERP systems

Apply modern-day

GUI solution for better flexibility and maintainability to save enterprise license cost

Build a next-gen analytics

performance and overcome existing challenges of scaling

Improve existing query

Save the additional incurring cost to maintain nodes because Redshift does not separate storage and compute

## **Solutions**



warehouse that resulted in consolidation, cost savings, and scalability for future needs:

Cybage visioned, architected, and designed a data



effective processed data management with different virtual warehouses

Adopted Snowflake data warehousing solution for:

- and auto scaling on need basis supporting semi-structured database saving costs through Snowpipe delivery mechanism
- accurate monitoring of each warehouse data and queries through

and improved analytics performance

- Snowflake Console
- **Used Fivetran as ETL for:**

moving away from Lambda and used a more robust way to ETL while

## avoiding data breakage at the time of source system change staging all data from respective data sources—S3, EC2, API, third-party

- app—to Snowflake monitoring via AWS CloudWatch
- **Implemented Sigma reporting** with connectors for each Snowflake Analytics Warehouse on user privilege basis
- Built a system that ensures scalability, effortless maintenance,

Deployed Apache Airflow as a data pipeline to decouple the systems

# **Business Impact**



Redshift and

other systems to Snowflake



due to optimized queries implementation



CloudWatch



effective Sigma implementation and fewer data syncs

# **Technology Stack**







**Fivetran** 





(\*) snowpipe













and QA



Services

Amazon Cloudwatch



## Testing Support MarTech

Fostering high performance and innovation delivered