TigerGraph Snowflake Connector

Rayees Pasha

Xinyu Chang

Today's Presenters

Xinyu Chang

Director, Customer Solutions

- Involved in the design and implementation of graph solutions for most of the major customers of TigerGraph.
- Led the development of graph algorithm libraries and the R&D work of in-graph machine learning.
- One of the authors of GSQL query language and personally implemented a lot of key features of GSQL query language.

Rayees Pasha

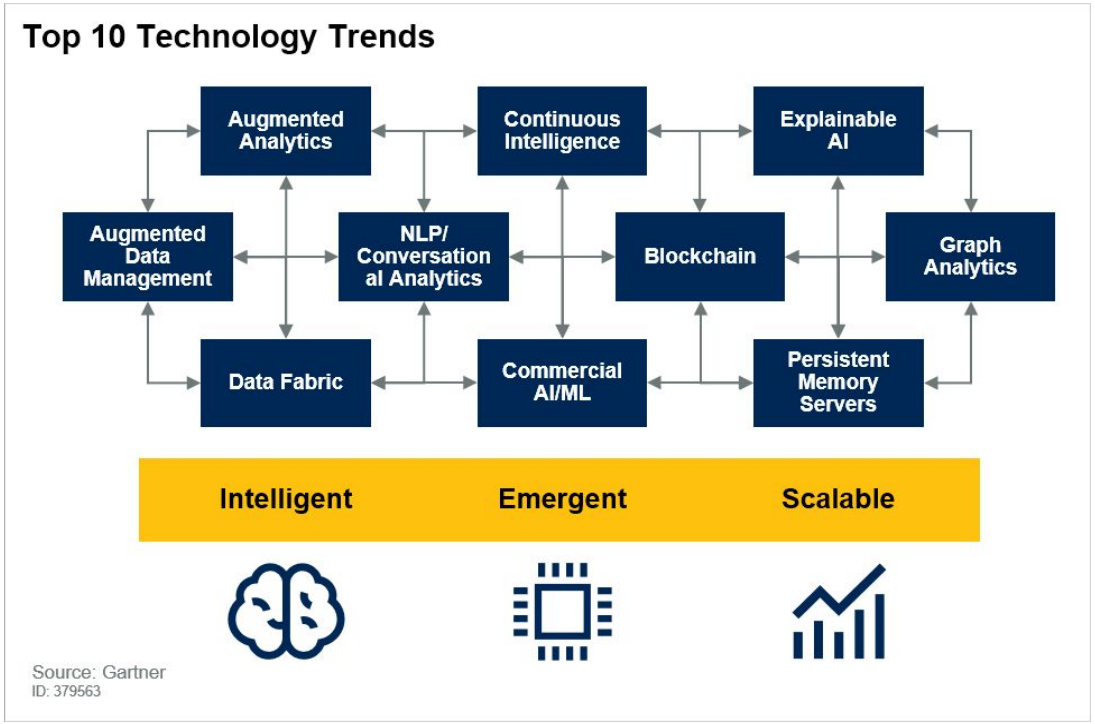
Product Lead, TigerGraph DB

- Responsible for TigerGraph Database Engine, Language and Platform areas of the product.
- MS in Computer Science from University of Memphis
- Prior Lead PM and ENG positions at Workday, Hitachi and HP
- Expertise in Database Management and Big Data Technologies

Agenda

- Role of Graph in Connected Data Analytics
- Power of Cloud-based Data Warehouse
- Introducing Seamless data ingestion via Spark Connector
- Demo: Snowflake Connector for TigerGraph

Importance of Graph in Today's World



Why Graph; Why Now?

Businesses want to ask business logic questions of their data

Blending data from multiple sources, multiple business units, and increasingly external data

Larger and more varied datasets mean more variables to analyze and connections to explore and test

Advanced Analytics and Machine Learning on Connected Data

CONNECT ALL DATASETS AND PIPELINES

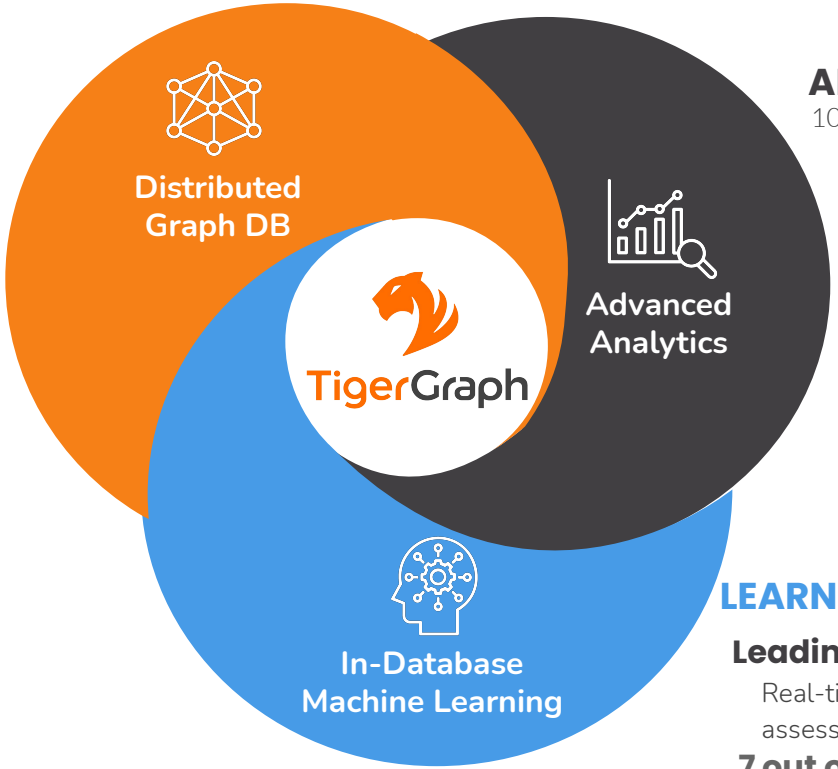
Friction-free scale up from GB to TB to Petabyte with lowest cost of ownership

Leading Healthcare Provider

Customer 360 connecting 200+ datasets and pipelines

Fortune 50 Retailer

Item 360 for eCommerce across 100+ datasets



ANALYZE CONNECTED DATA

10-100X faster than current solutions

Automotive Manufacturer

Supply chain planning accelerated from 3 weeks to 45 minutes

LEARN FROM CONNECTED DATA

Leading FinTech Company

Real-time fraud detection and credit risk assessment

7 out of top 10 global banks

AI-based Customer 360 for entity resolution, recommendation engine, fraud detection

Power of Cloud-based Data Warehouse

Snowflake is the leader in Cloud-based Data Warehousing. It provides all the advantages of Cloud-native service.

- Ease of implementation - Simple to setup and get started
- Auto-scaling of instances - Elastic and scalable up and down
- Low Administration overhead - Infrastructure managed completely
- Built-in Resilience for Business Continuity - Run mission-critical workloads
- Availability in multiple Cloud platforms - Choice of deployment

However ....

- Snowflake supports only Tabular data with SQL querying - Does not support graph exploration for deep-link analytics workloads.

Extending Graph to Cloud-based Data Warehouse

Problem:

- Make TigerGraph complementary to Snowflake with easy integration.
- Allow customers to easily gain more value out of their investments

Solution:

- We are making it easy to transfer data from Snowflake (scalable data warehouse with basic querying) to TigerGraph (connected data, high-performance graph analytics)

Target Users:

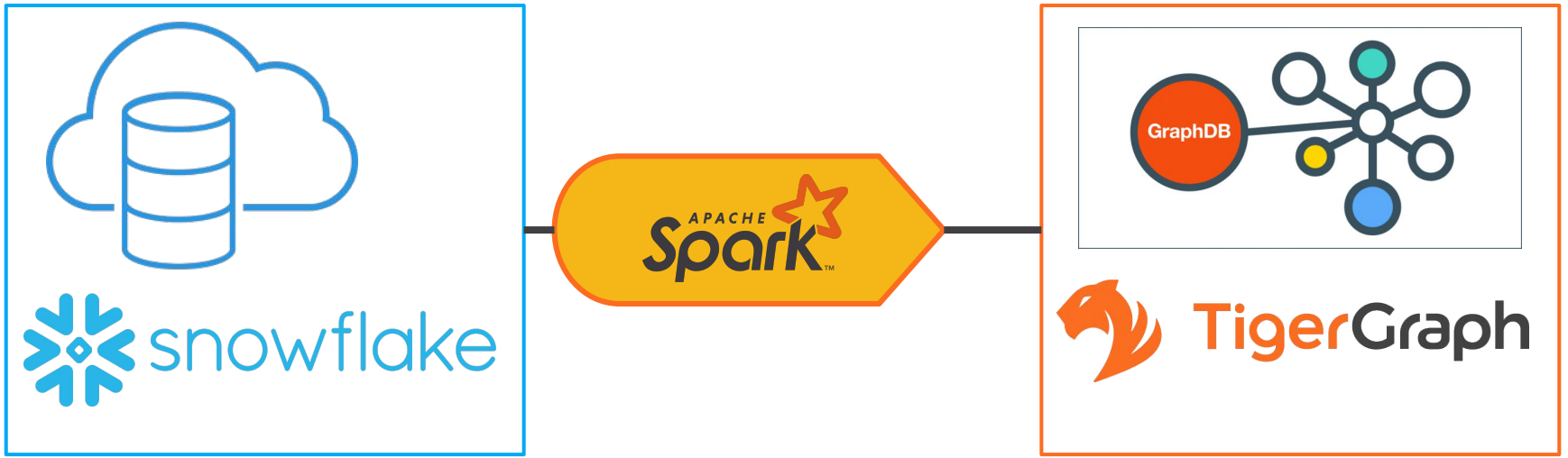
- Solution Architects and Application Developers

Introducing TigerGraph Snowflake Connector

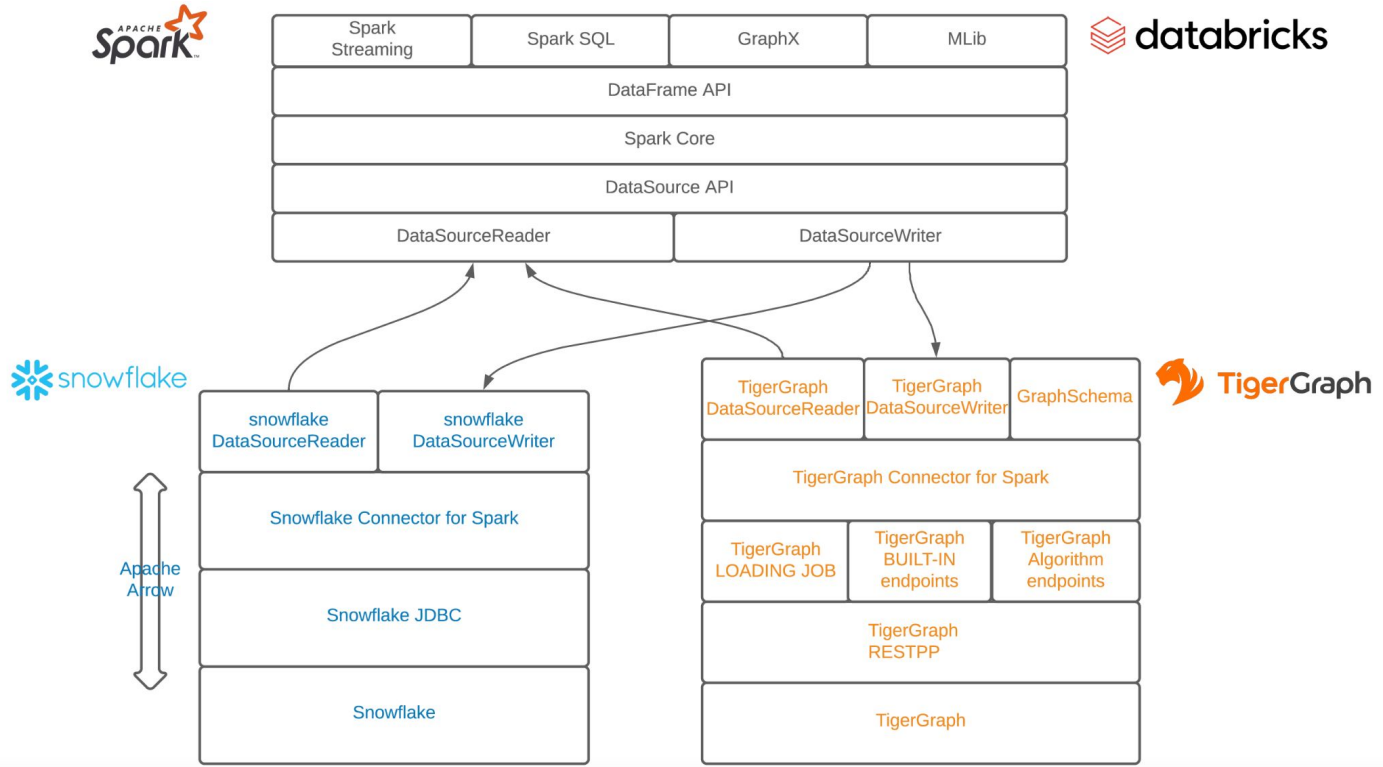
Spark-based Snowflake-to-TigerGraph connector

- Parallel loading for fast throughput
- Works with TigerGraph's GSQL loading language
- Works with TigerGraph 3.0+
- Employs the user's Spark engine
- Free and open-source
- Support included for TigerGraph paid users

Snowflake TigerGraph Connector



Snowflake TigerGraph Connector



Demo

Q&A / Chat

If you are available during your session time to be on Q&A via chat:

1. *Login to the virtual portal before your session. If you can't login to the portal please let us know at marketing@tigergraph.com*
2. *Go to your session at the time it airs (use search or filter to find your session)*
3. *You will be able to answer questions here - the chat will appear on the right side. All chats will be seen unless you send private messages (click on the person to send privately).*

NOTE: SESSION CHATS ARE PUBLIC