GRAPH+AI
SUMMIT

Seven Reasons To Embed Graph Analytics in Your Software Platform

Michael Destein, Sr. Director OEM Sales and Technology Alliances

Seven Reasons to Embed Graph Analytics

1) <mark>Graph is recognized as key enabler for growth</mark>

"By 2025, graph technologies will be used in 80% of data and analytics innovations, up from 10% in 2021, facilitating rapid decision making across the enterprise"

- Gartner

"Graph Database Market worth $5.1 billion by 2026"

- Markets and Markets

"Finding relationships in combinations of diverse data, using graph techniques at scale, will form the foundation of modern data and analytics; a remarkably high 92% of organisations it polled also say they plan to employ graph techniques within five years"

- Gartner

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2) Graph solves new challenges and use cases

Increase Revenue

- Customer Journey / 360
- Recommendation Engine
- Entity / Identity Resolution
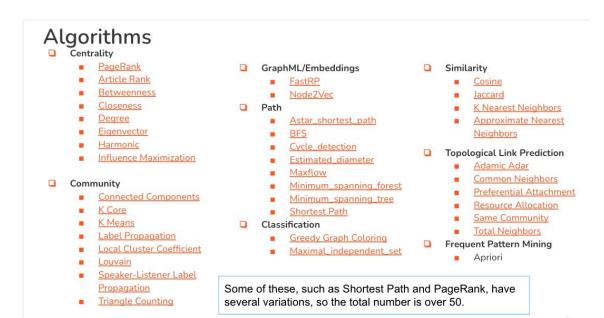- Marketing Analytics

Improve Efficiency

- Digital Twins
- Energy Management Systems
- Network Management Systems

Manage Risk

- Fraud Prevention and Financial Crimes
- Risk Assessment and Monitoring
- Cybersecurity Threat Detection

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Algorithms

Centrality
- PageRank
- Article Rank
- Betweenness
- Closeness
- Degree
- Eigenvector
- Harmonic
- Influence Maximization

Community
- Connected Components
- K Core
- K Means
- Label Propagation
- Local Cluster Coefficient
- Louvain
- Speaker-Listener Label Propagation
- Triangle Counting

GraphML/Embeddings
- FastRP
- Node2Vec

Path
- Astar_shortest_path
- BFS
- Cycle_detection
- Estimated_diameter
- Maxflow
- Minimum_spanning_forest
- Minimum_spanning_tree
- Shortest Path

Classification
- Greedy Graph Coloring
- Maximal_independent_set

Similarity
- Cosine
- Jaccard
- K Nearest Neighbors
- Approximate Nearest Neighbors

Topological Link Prediction
- Adamic Adar
- Common Neighbors
- Preferential Attachment
- Resource Allocation
- Same Community
- Total Neighbors

Frequent Pattern Mining
- Apriori

Some of these, such as Shortest Path and PageRank, have several variations, so the total number is over 50.

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Data Integration

- REST API's
- KAFKA
- JDBC

GSQL Language

Embeddable Visual Components

User Defined Functions

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5) TigerGraph is scalable, secure, and manageable

MPP Architecture

- Supports over 1000 nodes in a cluster
- Highest performer on LDBC-SNB 30TB BI SF-30K benchmark

Manageability

- Multi-zone high availability
- Cross Region Replication
- Single Command Cluster Resizing
- User controlled resource allocation

Security

- SOC2 compliant
- Multi-Graph capable
- User and Role based access
- OAuth access control

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6) Deploy TigerGraph on-prem, IaaS, or as SaaS

- Bare metal installation
- Kubernetes support
- IaaS support / marketplace installs
- TGCloud.io offering TigerGraph SaaS

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7) TigerGraph is a trusted business partner

We will work with you to fit your needs

- Technology Alliance
- Managed Service Provider
- Embedded Solution Partner

Dedicated Partnership team

Structured partnerships for joint wins

Let's Join Forces Today

- Join TigerGraph's Connected Partners Program
- Let's start discussing how to embed graph analytics into your software platform
- Let's work together to build successful joint customers

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