aws marketplace

TigerGraph

Reviews, tips, and advice from real users






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Contents

Product Recap

TigerGraph

TigerGraph Recap

TigerGraph offers a graph analytics platform that efficiently handles large-scale and complex data relationships, providing insights for informed decision-making.

Specialized for big data, TigerGraph leverages a native parallel graph architecture to analyze data relationships rapidly. It is designed to manage extensive datasets, providing real-time insights that are invaluable for sectors like financial services, healthcare, and telecommunications. With its scalable infrastructure, it supports intricate data queries, making it suitable for applications ranging from fraud detection to personalized recommendations. Manual data processing is minimized, transforming analytical processes.

What features stand out for TigerGraph?

- Native Parallel Graph Architecture: Supports high-speed data processing and complex queries.
- Real-Time Analytics: Offers instant insights from large datasets.
- Scalability: Seamlessly manages growing data volumes.
- Advanced Security: Ensures data protection and compliance.
- Open APIs: Facilitates integration with existing IT infrastructure.

What benefits and ROI should users look for?

- Enhanced Decision-Making: More informed actions based on deep data insights.
- Cost Efficiency: Reduces need for extensive hardware and manual processing.
- Operational Agility: Quick adaptations to changing business demands.
- Time Savings: Minimizes time spent on data analytics and interpretation.
- Better Risk Management: Improved detection and mitigation of potential threats.

TigerGraph finds application in industries such as financial services, where it aids in preventing fraud and ensuring regulatory compliance. In healthcare, it's used for patient data analysis to improve personalized care. Telecommunications use it for network optimization and customer segmentation to enhance service offerings.

Valuable Features

Excerpts from real customer reviews on PeerSpot:

"Since we needed to reduce the query execution time in our application, it has reduced it by up to 60%, data relationship analysis that used to take minutes is now reduced to seconds, and we can process multiple millions of relationships in real-time, which provides significant value."

Pranay Jain

Senior software developer at Simplifyvms

"The impact of TigerGraph has been significant: it reduced complex multi-join query times from minutes to milliseconds, enabled real-time fraud detection across billions of transactions, and cut development effort by over seventy percent because the graph traversal logic that previously required thousands of lines of SQL became just a few dozens of lines of GSQL."

Zulqarnain Zivkarnan

Full Stack Engineer at Quran Foundation

"TigerGraph has positively impacted my organization through numerous applications in AI, fintech, insurance, and crypto-related use cases."

Verified user

Senior DB Engineer And Sre at a tech vendor with 10,001+ employees

"A specific result that reflects this positive impact on my company's market position is that I have almost a 100% win rate on bids for projects that involve graphs, thanks to my experience with TigerGraph."

Gonzalo Bolado

Responsable Del Equipo D Más D at a tech services company with 51-200 employees

What users had to say about valuable features:

"The best feature of TigerGraph is the interconnectivity, which is very good for our needs as we were looking for highly connected data such as customer transactions. We needed our database to provide solutions for complex relationship queries quickly, and we can scale it with a large dataset. We adopted TigerGraph because it has massively parallel processing, real-time graph analytics, and deep link multi-hop queries.

I find the GSQL query feature to be the most reliable because it is a powerful SQL-like query language designed for graph analytics and complex pattern matching, which is the best aspect of TigerGraph.

Scalability is one of the key factors why we chose TigerGraph, as it provides fast analytics when the dataset increases and meets our needs very well.."

Pranay Jain
Senior software developer at Simplifyvms

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The best features that TigerGraph offers are the cloud storage, not having to run it on-premises, and the graph visualization layer from TigerGraph cloud. I am also able to play with schemas, draw them, and modify them from a user-friendly interface.

The visualization layer and the management from the cloud have made my team's work easier compared to previous solutions because it allows us to run queries and modify the graph schema practically effortlessly.

“TigerGraph has positively impacted my organization by allowing me to show how graphs and their algorithms are used. It has allowed my organization to be at the forefront of this technology because I bet on it before anyone else did, and now this technology is in demand. This has put my organization in a very prevalent market position.

“A specific result that reflects this positive impact on my company's market position is that I have almost a 100% win rate on bids for projects that involve graphs, thanks to my experience with TigerGraph. .”

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"The best features TigerGraph offers include, first of all, the performance and scalability, which is why we started using it. Then there is the modern hybrid engine for AI that moves beyond simple data connection to real on-the-graph RAG for explainable AI, and the developer and enterprise features like powerful query language, low-cost solution, and cloud-native deployment. Additionally, it seamlessly connects with the ultra-fast connectors for common data sources like Snowflake, Databricks, and Kafka, which we are using.

"Regarding how TigerGraph has handled large datasets or high query loads in my experience, it demonstrates world record scale with the ability to process graph data containing large dataset sizes. In this context, we can increase throughput by adjusting concurrency settings for loading jobs and modifying the Kafka loader replica number configuration to increase the number of concurrent Kafka loading jobs beyond the default one. With the ultra-fast connector and Kafka integration, we can add the built-in primary TigerGraph Kafka connector, which requires nothing to install as it is based on a trusted Kafka Connect framework. The connector streams from one source data, such as our application stream, into TigerGraph on the internal Kafka cluster. A Kafka loading job ingests the messages into the graph dataset. This design allows for faster, scalable, and concurrent data streams from multiple sources and supports modern data formats.

"GSQL is Turing complete and combines SQL-like syntax with procedural programming, supporting accum, post-accum, and order by with traversals. It also supports openCypher and ISO GQL for flexibility across teams. With cloud-native deployments like Savanna, TigerGraph Savanna offers separate storage and compute so you can scale resources independently and pause workspaces for cost savings. It includes automatic failover, high availability, and fine-grained role-based authentication out of the box.

"The impact of TigerGraph has been significant. It reduced complex multi-join query times from minutes to milliseconds, enabled real-time fraud detection across billions of transactions, and cut development effort by over seventy percent because the graph traversal logic that previously required thousands of lines of SQL became just a few dozens of lines of GSQL. The ability to visualize connected data in GraphStudio helped business users discover hidden relationships, such as

shared account identifiers that had gone undetected for years..”

Zulqarnain Zivkarnan
Full Stack Engineer at Quran Foundation

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"TigerGraph fits very well in the AI world as it provides the enterprise knowledge graph and gives a semantic relationship engine that can be used with LLM, AI agents, and RAG pipelines. It connects to documents, people, tickets, systems, incidents, and metadata and generates relationships, offering very fast relation and multi-hop traversal. Native relationship and graph analysis scalability can be done compared to Neo4j.

"TigerGraph offers the best features in relationship intelligence, VectorDB semantic similar search, LLM reasoning and chat, and also provides graph traversals, delivering connected intelligence which is why it is used across social media, banking, healthcare, fraud analysis, and recommendation systems.

"Of those features, relationship intelligence, VectorDB, semantic search, LLM reasoning, and graph traversals, TigerGraph stands out as the most valuable for my team. Compared to other graph technologies including Neo4j and ArangoDB, TigerGraph is very scalable, suitable for larger enterprises with bigger data sizes, and enables faster graph traversal. It also provides a lot of intelligence on top of that, which others do not, along with solid enterprise support including backup and restore features. Overall, operational data, semantic search, and AI agentic integration make it very helpful.

"The features I mentioned are very well architected for enterprise setups, and additional AI plus graph features provide significant help in ML and AI integration.

"TigerGraph has positively impacted my organization through numerous applications in AI, fintech, insurance, and crypto-related use cases. It allows real-time analysis and real-time fraud ring detections, providing insights into suspicious transactions and path analysis. It enables account linkage analysis, offering faster risk decision-making than traditional SQL and NoSQL, which can take minutes or hours for complex relationship queries. The relationship and knowledge graph support reduced fraud losses and improved compliance, alongside a better AI recommendation system that includes personalization and smarter AI responses.

"Since using TigerGraph, I have noticed outcomes such as faster analysis in areas including root cause detection. It effectively delivers relationships that are critical,

providing connection intelligence that matters a lot. It handles standard transactional workloads better than standard options and its distributed architecture supports various use cases, including supply chain and recommendation..”

Verified user

Senior DB Engineer And Sre at a tech vendor with 10,001+ employees

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Other Solutions Considered

"Before choosing TigerGraph, we evaluated Amazon Neptune, which is a fully managed graph database service available on AWS that supports both property graph and RDF model.."

Pranay Jain
Senior software developer at Simplifyvms

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"Before choosing TigerGraph, we evaluated other options, including Amazon Neptune and Neo4j. Neo4j was the strongest contender given its mature ecosystem, Cypher query language, and strong community support. Neptune was also appealing for its managed and cloud-native architecture. However, TigerGraph's on-premises flexibility and proven performance at petabyte scale ultimately aligned better with our data sovereignty and performance needs, which is why we chose TigerGraph.."

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ROI

Real user quotes about their ROI:

"TigerGraph has led to a significant return on investment, saving mostly major time compared to when I previously used Neo4j, where it typically consumed a lot of time. With TigerGraph, I save about thirty percent of time compared to before.."

Verified user
Senior DB Engineer And Sre at a tech vendor with 10,001+ employees

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"The documented ROI is substantial based on a Forrester Total Economic Impact study. We saved nine point six million dollars in increased profits over three years from the new products and services enabled by graph-powered insights.."

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"Since we needed to reduce the query execution time in our application, it has reduced it by up to 60%. Data relationship analysis that used to take minutes is now reduced to seconds, and we can process multiple millions of relationships in real-time, which provides significant value.

We have seen a return on investment since query processing has improved to under 30 seconds, and our analytic team's productivity has improved by 30%. The infrastructure cost has reduced as fewer complex queries are now required. Previously, if three people were needed for an analysis, it can now be handled by one member, and the business team receives insights much faster, improving the speed of decision-making.."

Pranay Jain
Senior software developer at Simplifyvms

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Use Case

“TigerGraph serves as a graph database to model accounts and transactions as edges for our company. In our organization, we implement TigerGraph in an application called Hi HQ. We deal with a large amount of interconnected data, such as customer, transaction, and product relations, so we needed to implement a solution that can effectively analyze highly connected data. We modeled entities like customers, products, and transactions as nodes, and their interactions as edges. Using this, we built graph analytics workflows to traverse the relationships quickly and identify patterns such as suspicious activity and customer behavior trends..”

Pranay Jain
Senior software developer at Simplifyvms

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"My main use cases for TigerGraph include a knowledge base, which is the number one use case, and second is fraud detection analysis.

"A specific example of how I use TigerGraph for fraud detection relates to cybersecurity or threat detection, which is very relevant to our infrastructure. It can identify the model, the host, users, permissions, logging patterns, and network connections. It can detect any kind of insider threat detection, attack path analysis, and lateral movement detection. It can find all the systems reachable from one compromised account, enabling threat detection or fraud detection.."

Verified user

Senior DB Engineer And Sre at a tech vendor with 10,001+ employees

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My main use case for TigerGraph is a digital twin of the supply chain. I put all the data from companies' supply chains into it, model them as a graph, and in this way, link all the relationships between all the nodes. I am able to simulate what will happen in the supply chain based on the information from the graph. I also use TigerGraph for Graph RAG in different language model applications.

A specific example of how the digital twin has benefited my organization is that I have managed to make the digital twin work in near real time, carrying out scenario simulations that in traditional databases take several minutes or tens of minutes to run the queries. In TigerGraph, it is a matter of seconds. I have been able to show clients how the digital twin is capable of working in near real time by simulating scenarios of their supply chain. ."

Gonzalo Bolado

Responsable Del Equipo D Más D at a tech services company with 51-200 employees

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"I have been using TigerGraph for the last two years. The use case for TigerGraph is at quran.com, where we need to connect the mapping verse connections to model each verse as a node and the relationship between the verses, such as shared themes, concepts, and linguistic links. This creates a semantic network of the Quran, and I made a thematic visualization of the Quran for this structure.

"First, I needed to define what kind of nodes and relationships our graph would contain using TigerGraph. For the verse, I made it Surah, including Surah number, verse number, Arabic text, and translation. Then I created a theme with the primary ID and the description. I created a unidirectional edge called has_theme from verse to theme, and then I created a unidirectional edge called related_to from verse to verse with relationship type, which could be a string such as same_theme, cities, or explains, and then the weight as a double.

"In this schema, each verse is a vertex, each theme is a vertex, and vertices connect to themes through has_theme edges. Verses can also connect directly to other verses through related_to edges where they share semantic connections. I inserted data for verses sharing the same theme. I then wrote a query to find verses by theme using the TigerGraph GSQL query language to retrieve all verses connected to a specific theme. The visualization graph shows two circular nodes representing the verses, labeled such as 2:1, 3, and 3:200, and one center node representing the theme patient. Edges shown as arrows connect each verse to the patient node and also a direct edge between the two verses if the related_to connection was added.."

Zulqarnain Zivkarnan
Full Stack Engineer at Quran Foundation

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Setup

The setup process involves configuring and preparing the product or service for use, which may include tasks such as installation, account creation, initial configuration, and troubleshooting any issues that may arise. Below you can find real user quotes about the setup process.

"TigerGraph is deployed in our organization in a public cloud environment with TigerGraph servers set up in our organization's cloud environment. The deployment involves setting up TigerGraph servers in our organization's cloud environment.."

Pranay Jain

Senior software developer at Simplifyvms

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Other Advice

My advice to other people who are considering using TigerGraph is to learn GSQL well in order to write good queries, to understand how graphs work, and to thoroughly review TigerGraph's user guides. I rate this review seven overall.

Gonzalo Bolado
Responsable Del Equipo D Más D at a tech services company with 51-200 employees

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"My advice for others considering using TigerGraph is to test it, conduct a proof of concept, and verify that it meets their requirements. Perform a load test to see the performance. I would rate this review as a seven out of ten.."

Verified user
Senior DB Engineer And Sre at a tech vendor with 10,001+ employees

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"Start with the Community Edition and then design your graph schema iteratively. Expect a learning curve with GSQL and test real-world scale early so you can plan your export strategy and engage with the TigerGraph solution team for any enterprise licenses. I would rate this product a nine out of ten.."

Zulqarnain Zivkarnan
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"If your application or company needs a platform that will grow and handle datasets growing into millions in the near future, and if your company has the budget for TigerGraph, then you should go for it. It may be a little costly, but it ultimately provides very fast analytical capabilities of datasets, which is great. I would rate this product a 9 out of 10.."

Pranay Jain
Senior software developer at Simplifyvms

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