aws marketplace

ArangoGraph

Reviews, tips, and advice from real users








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Product Recap

ArangoGraph

ArangoGraph Recap

ArangoGraph is a highly flexible multi-model database that efficiently handles graph, document, and key-value pairs, supporting diverse data structures within a single comprehensive platform.

ArangoGraph offers seamless functionality for complex queries and provides significant utility for data professionals seeking to integrate data models without data migration. It helps solve intricate data handling challenges across different use cases through its integrated approach that prioritizes query performance and data consistency, ensuring robust cross-model integrations.

What are the key features of ArangoGraph?

- Multi-Model Support: Integrates different data types such as graphs, documents, and key-values without performance compromise.
- Native Graph Support: Provides native capabilities for graph analysis, crucial for complex relationship mapping.
- ACID Compliance: Ensures data integrity and reliability through robust transaction support.
- Extensibility: Facilitates custom applications with a comprehensive API suite, enhancing adaptability.

What benefits and ROI should users seek in reviews?

- Cost Efficiency: Reduces infrastructure costs by avoiding data silo proliferation rather than using multiple database solutions.
- Enhanced Query Performance: Optimizes query speed and reliability, allowing faster data insights.
- Scalability: Easily scales with business growth, supporting escalating data volumes without extensive reconfigurations.
- Cross-Model Queries: Executes queries across different data models in one system, streamlining operations.

ArangoGraph finds applications across industries such as finance, where it facilitates fraud detection by analyzing complex transactional networks. In healthcare, it supports patient data integration and visualization processes, enhancing decision-making through comprehensive health records analysis. For telecommunications, it offers network optimization solutions by effectively mapping vast datasets into coherent, actionable insights.

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Valuable Features

Excerpts from real customer reviews on PeerSpot:

- "With unified AQL, I write one single declarative block to filter JSON log payloads by timestamp and match specific error strings, making the process faster and simpler."



Shivam Sahu
Software Engineer 2 at Versa Network

- "ArangoGraph changed the way our teams think about data, and this mental shift improved our overall data modeling approach across the entire project."



Tarunn Goswami
GEN AI Engineer at a educational organization with 51-200 employees

- "ArangoGraph has positively impacted my organization by enabling discovery sessions that we can close within two weeks instead of keeping them open for a month, reducing delays by nearly 50 percent."



ParthasarathyT
Senior Infrastructure Engineer at Publicis Sapient

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"This makes it very useful to me."



Validated user

AI Engineer at a consultancy with 51-200 employees

"ArangoGraph provides options to scale as data grows, which helps me plan for increasing data volumes and more complex graph queries, and from the backend perspective, users can explore these relationships smoothly without major changes to the application architecture."



Validated user

Member of Technical Staff II, Research & Development at a tech vendor with 10,001+ employees

"ArangoGraph has positively impacted my organization by helping me establish supply chain visibility in a comparatively financially viable way, as other providers are more expensive compared to that."



HimanshuJha

Data Scientist

"ArangoGraph has positively impacted my organization because it is a good piece of software that developers can learn quickly."



Tom Dringer

Director And Developer

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What users had to say about valuable features:

"The best feature of ArangoGraph was that I could decide the mode of traversal. The querying was smooth, and I could configure the understanding of how to query and the level of depth I needed to traverse through the data.

"ArangoGraph provided AQL, which is Arango Query Language, as the go-to way for queries, and that was really easy to understand and digest. Within a very short time, I was able to figure out how to do this querying and understand how the language works. The documentation was easy to understand and apply to my use cases.."

Validated user

Senior Developer at a tech vendor with 1,001-5,000 employees

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"The best features ArangoGraph offers include ArangoSearch engine which has inbuilt embeddings to store and can process the graph after we dump a lot of data into it. Additionally, there is a product called AI Contextual Data Layer which can retrieve information using natural language.

Out of those, the feature I find myself using the most is the Equalizer, which allows me to simply ask in natural language, and it internally converts that into AQL and executes it in the database, giving me the answer in natural language. This makes it very useful to me.

Regarding the features, I would add that there are features called Importer and Retriever which are available in the public document. The Importer allows us to import data that automatically converts it into a knowledge graph, while the Retriever retrieves relevant information based on whichever query is asked.."

Validated user

AI Engineer at a consultancy with 51-200 employees

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"The best features ArangoGraph offers are its simplicity, being built on JSON, which makes it very quick to see an overhead of certain bits of data, and its query language being similar to MySQL, with a slight learning curve but nothing too massive.

"Being able to quickly see an overhead of certain bits of data helps me in my day-to-day work by allowing for debugging and making sure everything works before we ship. We can run queries, and from a high overhead view, we know whether it is working or not by the data that is returned.

"Along the line, we will be sharding our database.."

Tom Dringer
Director And Developer

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"The best features ArangoGraph offers include support for graph traversal and relationships between queries very efficiently. On top of it, it also has its own query engine known as AQL, so using this, I can query graphs and documents. It also scales or expands horizontally through clusters, and one important feature which I appreciate is that it is very suitable for real-time analytics on connected data.

"AQL is basically used for querying graphs and documents, so it is similar to SQL. AQL is something I can use to interact with ArangoGraph, so it can query documents, edges, and graphs using a single language. Not only relational but also non-relational databases such as MongoDB and other graph-based databases can use AQL.

"AQL can be used for traversal both inbound and outbound, for multi-hop relationship analysis, finding the shortest path between graphs, and is widely used for anti-money laundering detection patterns and financial frauds.

"The governance and security is quite good. Compared to what I have seen for other graph-based databases, ArangoGraph has a comparatively better advantage in terms of data security, and that is why it is the preferred choice in my organization.."

Mdasif Ali
Data Architect at a tech vendor with 10,001+ employees

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"One of the best features of Arango is that it is a multi-model database, and specifically, the best features of ArangoGraph are scalability and user interface, which are most important in the e-commerce domain. Previously, I was in the healthcare e-commerce domain, where scalability matters more, and that is the feature it provides, which is very useful for my work. As I mentioned, the user interface definitely adds more value whenever users see details using edges and vertices.

"The scalability of ArangoGraph is useful for my project because I manage relationships between customers, buyers, suppliers, and products, and this data keeps growing over time. As more suppliers, buyers, and products are added, the number of relationships also increases. ArangoGraph provides options to scale as data grows, which helps me plan for increasing data volumes and more complex graph queries. From the backend perspective, this is valuable because I want users to explore these relationships smoothly without major changes to the application architecture. Overall, scalability helps me support growth and manage increasingly complex relationships.

"Another useful feature is AQL, which allows me to retrieve data through graph traversal queries. The flexibility of graph traversal capability and ease of managing complex relationships are the features I appreciate most.."

Validated user

Member of Technical Staff II, Research & Development at a tech vendor with 10,001+ employees

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“One standout feature of ArangoGraph compared to other databases is its native multi-model support.

I choose ArangoGraph over other databases because the biggest driver for us was the native multi-model support. Before this, we were considering keeping JSON logs in a standard document store and syncing the relationship data into a separate graph database such as Neo4j. Managing that dual-write architecture in production was a nightmare. With ArangoGraph, we get a document store and a graph database in one instance, and since we run our workload on GCP, having ArangoGraph handle the managed cloud deployment, sharding, and automated backup keeps our DevOps workload low.

The best features ArangoGraph offers include its native multi-model engine that combines documents, graphs, and key-value storage, eliminating polyglot persistence and dual writes. AQL is incredibly clean and intuitive, allowing seamless handling of aggregation, graph traversal, and joins without switching between SQL and MongoDB queries. Another feature I appreciate is ArangoSearch, an integrated full-text search engine that allows BM25 ranking, fuzzy search, and text matching alongside graph queries without managing a separate Elasticsearch cluster.

If I had to pick just one feature that has the biggest impact on my daily workflow, it would be the unified AQL. Writing backend services in Python or Go, or debugging anomalies in our logs, AQL simplifies my tasks because I do not have to switch between different query languages. In our old setup, tracing an issue required querying a document store first, pulling IDs into application memory, and firing a second query at a graph or search engine. With unified AQL, I write one single declarative block to filter JSON log payloads by timestamp and match specific error strings, making the process faster and simpler.

The AQL query profiler and explain tools built into ArangoGraph console are important features. When dealing with millions of log events across a sharded cluster, distributed graph traversal can get slow over the network. SmartGraphs allow us to shard our collections by service or tenant ID, keeping related nodes on

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the same physical machine, which keeps our queries super fast..”

Shivam Sahu
Software Engineer 2 at Versa Network

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Other Solutions Considered

"When I started working with ArangoGraph with the community edition, the features it had when I was exploring were liked by everyone, and I went with that, so I did not evaluate other options when choosing ArangoGraph.."

Mdasif Ali
Data Architect at a tech vendor with 10,001+ employees

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"Before ArangoGraph, we used a mix of MongoDB for document storage, Neo4j for graph relationships, and Elasticsearch for full-text search. We switched because maintaining that polyglot setup with dual writes and sync pipelines was a maintenance nightmare; consolidating everything into ArangoGraph eliminated all that glue code and made our architecture much easier to manage.."

Shivam Sahu
Software Engineer 2 at Versa Network

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"Before choosing ArangoGraph, we evaluated options such as Neo4j combined with MongoDB and Elasticsearch. We opted for ArangoGraph since its native multi-model engine eliminated the complexity of syncing data across multiple separate systems, and it has proven extremely stable for our production workloads, reliably handling heavy log ingestion and graph traversal.."

Shivam Sahu
Software Engineer 2 at Versa Network

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"Before ArangoGraph, we used Neo4j. We switched from Neo4j to ArangoGraph because companies typically choose ArangoGraph over Neo4j when they want more than just a graph database. ArangoGraph offers multi-model capabilities versus pure graph functionality, combining two to three types of data to prepare a graph accordingly. ArangoGraph supports graph data, documents, JSON files, key-value data, search capabilities, and value-based AI workloads. This multi-model approach is why enterprises choose ArangoGraph.."

ParthasarathyT
Senior Infrastructure Engineer at Publicis Sapient

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"I used traditional databases, NoSQL and SQL databases such as MongoDB, Oracle, MySQL, and PostgreSQL. Using those for my use cases for fraud detection, social media analysis, and master data management compared to using ArangoGraph gave us a more competitive advantage. The processing and solutions provided by ArangoGraph supersede whatever the solution provided by the previous platforms.."

Mdasif Ali
Data Architect at a tech vendor with 10,001+ employees

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ROI

Real user quotes about their ROI:

As of now, I am still in a progressive phase in terms of seeing a return on investment, so I am waiting for the end of the quarter for that. However, I generally feel this will reduce at least a decent amount of workload on both analytics and provide better features on the UI for me.

HimanshuJha
Data Scientist

Read full review

"I have seen a return on investment as previously we cleaned up the data with six to seven members without ArangoGraph. Now it is a one-person job, while the money kind of increased, but is expected to decrease over time, with the time saved being huge.."

Validated user
AI Engineer at a consultancy with 51-200 employees

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"Pricing and setup were straightforward; using the managed cloud tier on GCP involved quick setup without heavy infrastructure lifting. We have definitely seen a solid return on investment by consolidating our document storage, graph traversal, and full-text search into one unified ArangoGraph cluster.."

Shivam Sahu
Software Engineer 2 at Versa Network

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Use Case

“My main use case for ArangoGraph is to run queries to find data while we're developing.

“A specific example of how I use ArangoGraph for those queries during development is debugging and making sure everything is working. In my previous role, I worked on a shipping app that functioned as a track and trace for parcels, and I used clients to check the database against the client and the packages to ensure everything was functioning..”

Tom Dringer
Director And Developer

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“My main use case for ArangoGraph is anomaly detection (UEBA). On our backend team, we ingest access/security millions of logs through Kafka using Python services, parse them, and dump them into ArangoGraph. We store the data in Arango like collections USER, LOCATION, URL then edges among them like USER_ACCESS_URL, USER_ACCESS_LOCATION.

Our detection jobs run AQL queries to find anomalies, such as impossible travel and access to risky countries. We then give each user a risk score from 0 to 100..”

Shivam Sahu
Software Engineer 2 at Versa Network

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"My main use case for ArangoGraph is that our data is so messy, so we need a graph database to predict and retrieve the data. There is also a product called graph machine learning models that we utilize.

A specific example of how I use ArangoGraph with our messy data is that in our company, some employees are taking sick leave or casual leaves on Saturday or Monday without any apparent purpose. With ArangoGraph, I used it to visualize who is exactly taking sick leave and casual leave in a graph format and issue a small warning about that.

Regarding my main use case with ArangoGraph, I can add that we also used it regarding cyber attacks, and there are many more ways I utilize it.."

Validated user

AI Engineer at a consultancy with 51-200 employees

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“ArangoGraph's main use case is to save interconnected data and traverse across connected data similar to how you traverse through a graph. In a traditional database, you need foreign key connections, but ArangoGraph enabled me to traverse through efficiently with minimal complexity.

“In one of my projects, I had to connect certain privacy records entities to certain master data, and this master data needed to be connected to another set of master data. I had to find dependencies between master data and determine what master data privacy records were connected to. When this happened with thousands and lakhs of records, ArangoGraph really helped in that case..”

Validated user

Senior Developer at a tech vendor with 1,001-5,000 employees

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"The main use case of ArangoGraph is data analytics, and I have conducted multiple kinds of POCs where I experimented on fraud detection where I identified suspicious connections or spurious activity between account transactions and users. I also dabbled in social media analysis, for example, I wanted to conduct experiments on finding mutual friends in a particular social media platform.

"In case of fraud detection, I have used ArangoGraph for finding unwanted or illegal transactional details in banking activity or card activity. Whenever a particular user makes an online transaction using a credit or debit card, that is where ArangoGraph comes into the picture. Since ArangoGraph is a graph database, it exposes hidden relationships between the customer, transactions, IT devices, and merchants.

"Apart from fraud detection, I have also used ArangoGraph in data engineering. From my data engineering background, ArangoGraph can be used for master data management, data lineage tracking, and finding relationships between enterprise data sets.."

Mdasif Ali
Data Architect at a tech vendor with 10,001+ employees

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"My main use case for ArangoGraph is to display graphs on the UI so users get a view with a graph-based interface showing relationships such as who is a customer, who is a buyer, and who is a supplier. I maintain these relationships using ArangoGraph.

"I can provide a specific example of how I use ArangoGraph to maintain buyer-supplier relationships. In Arango, which is a multi-model database, I use ArangoGraph with edges and vertices. My vertices are customers and suppliers, and other vertices are items that the supplier provides to the buyer. The relationships between products, customer products, and suppliers are maintained through edges, while vertices contain customer, product, and supplier information. This is how I use ArangoGraph to show the relationship between the customer, seller, and buyer of products.

"This is my main use case because without a graph, users need to check tabular information and read everything to understand relationships. With a graph using edges and vertices, users can easily identify connections. For example, if a buyer purchased three products—product A, product B, and product C—from a specific supplier, users can easily see the delivery status and what products were bought through these graphs.."

Validated user

Member of Technical Staff II, Research & Development at a tech vendor with 10,001+ employees

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Customer Service and Support

"I would rate customer support as mostly 9 out of 10, but when it comes to AI capabilities, it was like 4 out of 10, though overall it was good.

I would rate the customer support a seven.."

Validated user
AI Engineer at a consultancy with 51-200 employees

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"Customer support has been quite good. Whenever there are challenges, I reach out to ArangoGraph customer service, open up a ticket with them, or simply send an email, and I get support from them immediately.

"I would rate customer support nine out of ten.."

Mdasif Ali
Data Architect at a tech vendor with 10,001+ employees

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Other Advice

"I would rate ArangoGraph at eight. It was really good and does the job. I never faced any failure scenario or deadlock situation, and the support team was always helpful. These are the reasons for my rating. Overall, I would say the experience was good. I would recommend comparing it with Neo4j for your use case.."

Validated user
Senior Developer at a tech vendor with 1,001-5,000 employees

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"On a scale of 1 to 10, I would rate ArangoGraph a seven.

I chose seven because when I tried to use another product related to it, the UI is not that great compared to Neo4j.

ArangoGraph is deployed in my organization in an air-gapped environment.

The advice I would give to others looking into using ArangoGraph is that they first need to understand the graph fundamentals and then learn basic SQL, specifically AQL, and start with a smaller dataset, trying out the Enterprise Edition in Docker before contacting the Arango team. If they need AI capabilities, they must shift to the AI Contextual platform and have a basic understanding of Python to integrate with the code, along with having APIs for using ArangoGraph for AI purposes.."

Validated user
AI Engineer at a consultancy with 51-200 employees

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“On a scale of 1 to 10, I rate ArangoGraph an eight.

“I give it an eight because I am really happy with how it works and how it performs, but I am missing the two points because the enterprise version is a bit too expensive for new startups.

“Regarding ArangoGraph's AI capabilities, I trust its governance and security, having no reason to question it or be worried about it.

“In terms of ArangoGraph's AI capabilities, the accuracy and reliability of output seem to be fine; it seems to be quick and good.

“At the moment, we are using Vultr as our cloud provider.

“My advice to others reading reviews on PeerSpot who are looking into using ArangoGraph is to learn the query language. It is really not that hard, and by learning the query language, you will get the most out of ArangoGraph..”

Tom Dringer
Director And Developer

Read full review

“I would rate ArangoGraph an eight out of ten overall, as it is a phenomenal database engine for our use case.

Regarding ArangoGraph's AI capabilities, I think the governance and security they have built are solid. Since we work heavily with ML anomaly detection models, having native support for vector embedding alongside graph relationships and full-text search is powerful for building knowledge graphs and handling context retrieval without needing an external vector database. From a security and governance perspective, the managed cloud tier gives us great peace of mind with features such as enterprise-grade encryption, secure VPC pairing, fine-grained access control, and automated compliance backups.

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The accuracy and reliability of ArangoGraph's outputs, especially in AI and vector search aspects, are solid. It combines vector embedding directly with graph traversal and full-text search, ensuring context retrieval for our ML models remains precise. We have not encountered data hallucination or query reliability issues under heavy log ingestion.

We have deployed ArangoGraph on a public cloud as well as on-premises. For our public cloud deployment, we use GCP to deploy ArangoGraph utilizing their fully managed public cloud service.

If I could give advice to anyone considering using ArangoGraph, I would say definitely dive into it if you are tired of managing a messy multi-database stack. The native multi-model design and unified AQL will save tons of architectural headaches. Just plan your indexing and test your graph traversals early to maintain performance as your data scales..”

Shivam Sahu
Software Engineer 2 at Versa Network

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“On a scale of one to ten, I would rate ArangoGraph nine, simply because the features that I have explored are not only at par but exceed compared to its competitors. The only basic area I would say is in terms of GenAI and knowledge integration, as most vendors and competitors are integrating Generative AI and machine learning capabilities within themselves.

“In terms of accuracy and reliability, ArangoGraph is reliable, but it certainly requires human review. Obviously, it is important that core AI principles are incorporated such as fairness, transparency, and responsible AI. So far, whatever I have observed or checked in terms of ArangoGraph, it is quite useful.

“In my organization, ArangoGraph is deployed on a hybrid cloud. Some deployment is on a private cloud where security and customer data are of utmost

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importance. However, if it is not dealing with customer-specific data, it is deployed on the public cloud, and I use AWS for the public cloud deployment.

“I would recommend others if they have use cases in social media analysis, data analytics, data engineering, master data management, data lineage, or financial fraud such as anti-money laundering or illegal banking transactions. They can definitely give ArangoGraph a try and explore its features, which are definitely above its competitors..”

Mdasif Ali
Data Architect at a tech vendor with 10,001+ employees

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“Based on my experience, I would rate ArangoGraph an eight out of ten.

“I chose an eight out of ten for ArangoGraph because it has been really useful for my project, especially in managing complex relationships between buyers, suppliers, and products. I appreciate the graph traversal capability, flexible data modeling, and AQL query language. There is still some room for improvement in areas such as query debugging, performance monitoring, and developer documentation, but overall, I am satisfied with the product and its capabilities.

“Regarding ArangoGraph's AI capabilities, I think its governance and security are useful, particularly around access control and managing permissions. Since my application deals with business relationships between buyers, suppliers, and customers, data security and controlling access to sensitive information is important. Features such as fine-grained access control, audit logging, and better visibility into how data is accessed by AI applications are important. Overall, my experience with ArangoGraph has been positive, but I would need more hands-on experience with the AI governance features to evaluate them properly.

“Regarding ArangoGraph's AI capabilities, while I have not explored them extensively because my primary use case is managing the graph-based relationship between buyers, suppliers, and products, my experience with the accuracy and reliability of the graph query results has been positive. ArangoGraph helps me retrieve connected data using AQL and graph traversal, which is important for managing accurate business relationships.

“I would recommend ArangoGraph to organizations that need to manage complex relationships between different entities. My advice would be to first understand your use case and design your graph accordingly..”

Validated user
Member of Technical Staff II, Research & Development at a tech vendor with 10,001+ employees

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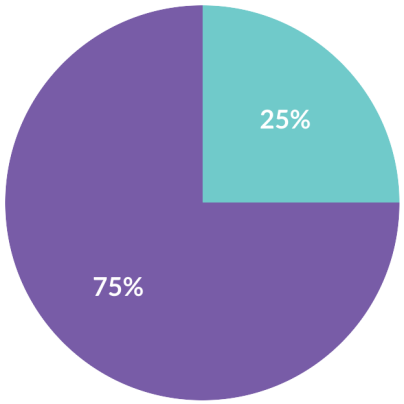
Top Industries

by visitors reading reviews

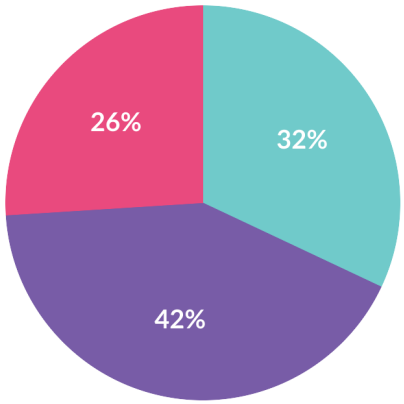
Construction Company	30%
Outsourcing Company	14%
Comms Service Provider	11%
Manufacturing Company	11%

Company Size

by reviewers



by visitors reading reviews



Large Enterprise Midsize Enterprise Small Business

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