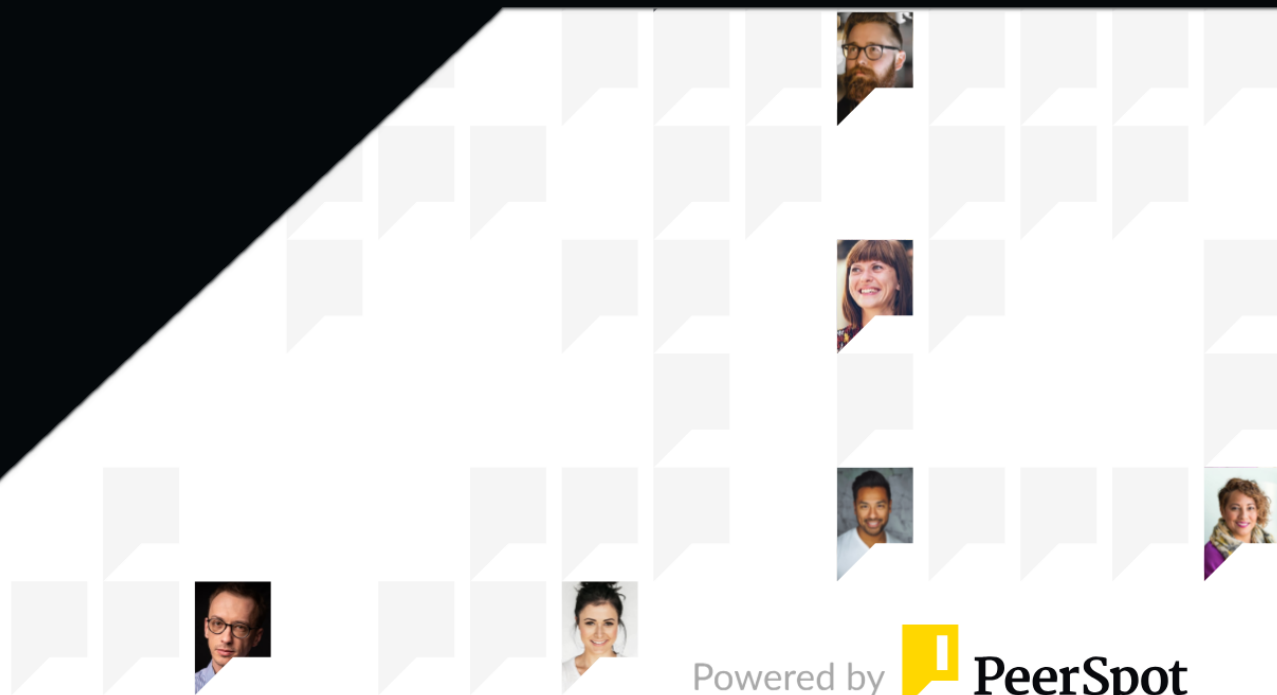




Couchbase Server

Reviews, tips, and advice from real users



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Product Recap



Couchbase Server

Couchbase Server Recap

Couchbase Server is a robust NoSQL database tailored for high-performance applications, facilitating seamless scalability and flexibility. It supports real-time data processing, ensuring consistent and reliable data management suited to demanding environments.

Known for its advanced capabilities, Couchbase Server is a document-oriented database designed for modern app development. It integrates memory-first architecture, allowing for efficient data storage and retrieval. Its distributed nature ensures horizontal scalability across environments. Couchbase offers an intuitive interface for developers, allowing them to manage data across multiple platforms with ease. It supports various use cases, from offline-first mobile apps to mission-critical enterprise applications.

What are the standout features of Couchbase Server?

- **Memory-First Architecture:** Prioritizes speed and efficiency by using RAM as a primary storage for active data.
- **Cross Datacenter Replication (XDCR):** Ensures data availability and resilience through multi-site replication.
- **Eventing and Analytics:** Provides real-time data processing for analytical and business insights.
- **SQL++ Query Language:** Combines ease of SQL syntax with NoSQL flexibility for complex queries.

What benefits and ROI should users consider in Couchbase Server reviews?

- **Scalability:** Adaptable capacity handling for growing data volumes without performance loss.
- **Performance Optimization:** Enhancements in speed and processing capabilities lead to reduced latency.
- **Cost Efficiency:** Eliminates need for expensive hardware upgrades by leveraging commodity hardware.
- **Time to Market:** Fast development cycles supported by Couchbase reduce deployment times.

Couchbase Server is widely implemented in industries like retail, finance, and healthcare. Its application in retail analytics enhances customer experience by leveraging real-time insights for personalized recommendations. In finance, it provides secure, scalable solutions for fraud detection and transaction analysis. In healthcare, Couchbase manages patient data, ensuring compliance and efficient access to critical information.

Valuable Features

Excerpts from real customer reviews on PeerSpot:



“Couchbase Server is a high-performance NoSQL document database that we primarily use for caching and generative AI to develop modern applications using rapid data access and offline support for offline mobile applications, along with flexible data modeling.”



Sanjukta Parida

Lead Software Engineer at a tech vendor with 10,001+ employees



“Couchbase Server's primary benefit is that our data is in JSON form, and it is very fast in comparison to saving and retrieval with low latency.”



Saroj Sahu

Technical Analyst at Coforge Growth Agency



“From knowing how Couchbase Server works and the performance outcome which I saw in real projects during battle testing and during anti-DDoS efforts, during my own project, I still keep using Couchbase Server and I am comfortable with it.”



Anar Jafarov

Co-founder / Software Engineer at Halalfoodle



“Couchbase Server has had a positive impact on performance, scalability, and development flexibility.”



Pranav Vighe

Senior Consultant Data Engineer at IRT Digital Analytics



“I would advise others considering Couchbase Server to note that compared to other tools such as MongoDB, it is easier to use, reliable, and offers high availability while continually adding more features, making it a suitable choice, especially for large data environments.”



Anuj Gupta

Devops Specialist at Amdocs



“Couchbase Server is an absolute powerhouse for high-velocity modern enterprise applications and bridges the gap between flexible schema advantages of NoSQL and the rigid, trusted query capabilities of relational databases beautifully.”



Basil Jiji

System engineer at a retailer with 10,001+ employees



“Couchbase Server positively impacts my organization as it serves as a crucial tool for my consulting services, allowing me to offer solutions to my clients' problems.”



Jim Daugherty

President at JIMD Group

What users had to say about valuable features:

“The best feature is the query in Couchbase Server to search configurations using SQL.

“When I need to search for a specific value, I use SQL to find it. SQL is the main feature I use in the company.

“The improvement is more speed. Speed is the main improvement my company has experienced with Couchbase Server..”

Dev_Dev

Software Developer at a tech vendor with 51-200 employees

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“The best features Couchbase Server offers are fast performance, easy-to-understand queries, and commendable customer support.

“The fast performance impacts my work with customer orders because every day I deal with documents and a frontend mobile application. Each time a user opens the application, a sync must occur so that the expiry date is properly synchronized and we do not place a wrong order. The synchronization between systems works very well.

“Couchbase Server has positively impacted my organization as we have significantly used it in most of the applications. Given the support, the amount of data we are using, and our specific use case, it is very relevant. It has significantly increased the productivity and quality of our applications..”

Shalini P

Associate System Engineer at IBM

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“The best feature Couchbase Server offers is the local database on the iPhone or smartphone, enabling me to conduct analysis or targeting without needing a constant connection to the server.

“Using that local database feature allows me to sync data back to the main Couchbase Server very easily. I just need to reconnect to a decent connection and hit a button to run the sync, which confirms whether it has been done, making it a lot easier than SQL server scenarios.

“Couchbase Server positively impacts my organization as it serves as a crucial tool for my consulting services, allowing me to offer solutions to my clients' problems..”

Jimd Daugherty

President at JIMD Group

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“Couchbase Server has definitely improved the workflow in my organization. The UI out-of-the-box does many things. I recently discovered collections and scopes, which I was not aware of, but after discovering them, they saved me many things related to governing indexes and creating special indexes to query. Now I can put data structures in the collections, which I can directly look up. I know that in a specific collection, I will get only specific types of documents, instead of having everything together in one place. That is great. After struggling with custom-based sequences and custom pointer documents that have numeric values pointing to the original document, now with collections and scopes, I can separate data structures, which saves me time. The UI is the best. All of these features have saved me maintenance costs and improved operation performance. I can quickly log into the UI and handle all the necessary operations. I can check logs and see warnings, everything in one place. I do not need extra items to use it.

Couchbase Server is very performant. I had a situation where I used it as session storage once in my lifetime, and it was very powerful. It handled DDoS situations when the application was creating 100,000 sessions in a second, and it was very fast..”

Anar Jafarov

Co-founder / Software Engineer at Halalfoodle

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“One of the best features is that it is a distributed NoSQL database with high performance and low latency. Additionally, its high availability and horizontal scalability are standout features. Couchbase Server primarily stores data as JSON documents, which is also one of the best features.

“The most valuable feature for my team is Couchbase Server's flexible JSON document model in combination with fast data access. It helps my team by making their day-to-day tasks easier because we store related information, such as customer order details, in a single document instead of managing multiple tables and joins. This has reduced development complexity and made changes to the data structure easier to manage. It has also helped us maintain the documentation.

“Couchbase Server has had a positive impact on performance, scalability, and development flexibility. It allows us to handle application data with low latency and scale our database as the data volume and workload increase. It also helps us organize the data in a JSON document model, making it easier for team members and developers to access the data. The simpler data management and improved application responsiveness due to its performance have helped us in a positive way..”

PranavVighe

Senior Consultant Data Engineer at IRT Digital Analytics

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“I have used Couchbase Server for approximately four to five years. We interact with Couchbase Server and extract data every day. We created a tool named JSON Copilot tool, which is used for schema conversion and automated validation. Sometimes documents are not proper when we create a table, so we validate the data using this tool. We can directly take the document from Couchbase Server and validate it in our tool. This is very useful for extracting and querying JSON documents without a rigid schema.

“We have used a vector approach to get data using the RAG model. It also supports offline data, which is very useful for our team for high-performance applications, caching, and generative AI.

“We use Couchbase Server as an eventing service so that the data service can initiate and advance the workflow based on raw data. When we integrated it into the workflow system, Couchbase Server became the center of the data lifecycle. It helps us validate data, and when client applications update a document, Couchbase Server triggers JavaScript-based logic, such as on update and on delete, and instantly forwards that payload to an external orchestrator or message broker. This is very useful for our case.

“Couchbase Server's best feature is that it operates directly with no-code workflow builders for modern AI workflows. We support vector store integration, which means we can use an embedded vector knowledge field that can be used by AI to inject semantic search context into the LLM.”

Sanjukta Parida

Lead Software Engineer at a tech vendor with 10,001+ employees

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Other Solutions Considered

“Before choosing Couchbase Server, I evaluated alternatives such as Mongo and other NoSQL databases, but Couchbase Server stood out as the best option, although more developer-focused resources would be beneficial..”

Jimd Daugherty

President at JIMD Group

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“I use many different solutions such as MySQL and MariaDB, but I don't use Microsoft SQL because I have a poor opinion of its value, and I view Oracle as particularly unfavorable..”

Jimd Daugherty

President at JIMD Group

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“We have evaluated MongoDB and Postgres server. We found Couchbase Server very useful for our application since we are supporting NoSQL documents and validating data. Performance-wise, writing queries is very easy and comfortable in Couchbase Server across distributed applications..”

Sanjukta Parida

Lead Software Engineer at a tech vendor with 10,001+ employees

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“I changed organizations, where Couchbase Server is used because our data is in JSON format and structured accordingly. In my previous role, we utilized a SQL database as our data was interdependent, but now, the JSON format is sufficient for our needs. The choice ultimately depends on the structure of data since relational databases are better suited for data with inherent relationships..”

Saroj Sahu

Technical Analyst at Coforge Growth Agency

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“I previously used MongoDB and ArangoDB before choosing Couchbase Server. All of them are good. From knowing how Couchbase Server works and the performance outcome which I saw in real projects during battle testing and during anti-DDoS efforts, during my own project, I still keep using Couchbase Server and I am comfortable with it. I never think about switching to SQL-based servers. I do not think about switching to MongoDB and others. This is only the case if I am able to control the architecture..”

Anar Jafarov

Co-founder / Software Engineer at Halalfoodle

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Use Case

“Our main use case requires high performance, scalability, and flexible data storage. For day-to-day use, we use Couchbase Server for JSON-based application data handling, frequently reading and writing data, and also to support some of our workload with low latency.

“Our primary use case is for customer data. We use Couchbase Server to store our customer order data, which is in JSON format. On a day-to-day basis, we are using it for fast data querying, fast access, and flexible data storage..”

PranavVighe

Senior Consultant Data Engineer at IRT Digital Analytics

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“My main use case for Couchbase Server is for frontend application to consume the day-to-day order and retail business order documents.

“A quick, specific example of how I use Couchbase Server in my retail business order processing is that customer order workflows have to be synced and reviewed for document expiration. All expired documents with expiry dates and customer orders reside in Couchbase. We have a local database to sync it, and with regular deltas, we sync the sheets or documents from the database. We also use it as a document database to retrieve the details for customer orders..”

Shalini P

Associate System Engineer at IBM

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“My main use case for Couchbase Server is for integration with iPhone apps, as it has Couchbase Lite that goes on the app, making it very easy to connect to the server side of the equation. It also has the ability to store the database on the phone, allowing the use of the phone without being constantly connected to the server, which is the feature I like the best.

“The local storage feature helps my users day-to-day by allowing them to perform necessary database functions, such as invoicing, in situations where they may not have a good connection, as they can preload the database they need in advance.

“I usually prototype my setups fairly cheaply so that my clients can use it without worrying about accumulating significant costs..”

Jimd Daugherty

President at JIMD Group

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“I use Couchbase Server as a main database to store information as key and value objects for geolocation-based lookups for place data. I use it for many purposes, depending on the use case. I use its indexing feature, its search feature, its querying feature, and everything depending on the type of project and complexity. Halalfoodle is a location information catalog for restaurants. I also have another use case for an ORTB system to keep analytical counters, not all the analytical data, but counters and configurations, because it is easy to set up and easy to manage with its beautiful UI, which saves me from needing extra UI tools. It saves me time.

I use Couchbase Server because it allows me to use it as flexible data storage. If I want, I can use it as key-value storage. If I want, I can use the SQL feature to query it. If I want, I can use its analytical views feature to create necessary views to query. I think its primary and greatest feature is the UI, which simplifies many things. With another database, you have to have a separate client utility from the terminal. This one gives you a UI which is beautiful and easy to use. It really saves time. The XDCR feature is the best. I simply set it up, define the IP address, and it automatically distributes the data between the data center instances, which is a very helpful feature. There is no headache, everything is out-of-the-box, and all of it is great..”

Anar Jafarov

Co-founder / Software Engineer at Halalfoodle

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“Couchbase Server is used primarily for caching to store values, which provides the software with increased speed and helps find and certify that values are correct on the server.

“In the software, we have employers and sellers. I use Couchbase Server for the configuration of sellers, including money and POS, which is a small terminal. The seller is certified to draw. We have between 5,000 and 10,000 sellers in the database. Couchbase Server is used to cache the configuration values for any seller in the software.

“Couchbase Server provides us with more flexibility and a great cache. It provides speed for the software and is the main component for speed.

“When our sellers are certified in the streets, the terminal does not get information from the relational database. Instead, it finds the configurations in Couchbase Server for more speed in the operation..”

Dev_Dev

Software Developer at a tech vendor with 51-200 employees

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“We are using RAG here, and Couchbase Server is supported as a vector store, providing a high-performance solution for managing and retrieving vector data. This integration helps us to create a no-code AI workflow with flexible vector storage. Flowise is an open-source tool that allows us to create and manage workflows with a visual no-code interface. We install Flowise using NPM and then use Docker to deploy our project for running it in a container. We upsert into Couchbase Server and run queries using a Couchbase Server retriever. We process and generate data using ChatGPT 4O and handle multi-retrieval using multi-interaction to ensure accurate and context-specific responses.

“We have used Couchbase Server in our applications, including a sales plus application. In that application, we moved card validation from the Xamarin code and created a tool to validate all card validations. We directly interact with the document and check each document in Couchbase Server to ensure it is correct. Sometimes we pull data from Couchbase Server, but some attributes are not present. We created a tool to validate the data, and when orders are placed, payment is processed and then shipped, with Couchbase Server storing the state of the active workflow as a JSON document. In our project, we use the same approach. We run a distributed workflow, and if it fails, we can directly fetch the data from Couchbase Server to see how it is handling the data between our microservices without forcing them to communicate directly..”

Sanjukta Parida

Lead Software Engineer at a tech vendor with 10,001+ employees

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Customer Service and Support

“Most of my support comes from my own knowledge, as I rarely contact customer support, relying instead on the comprehensive resources available on the website and forums..”

Jimd Daugherty

President at JIMD Group

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“Overall, we have had a positive experience with their customer support. The support team is responsive and helpful, particularly when dealing with issues like performance and configuration..”

PranavVighe

Senior Consultant Data Engineer at IRT Digital Analytics

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“I have not contacted customer support for Couchbase Server because I use the community version. I am on my own and do my own project. For some other components, I always use community-based versions. That is why I have not used support..”

Anar Jafarov

Co-founder / Software Engineer at Halalfoodle

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“Regarding Couchbase Server's governance and security, I think they are secure.

“Regarding the accuracy and reliability of output, I think they are pretty good..”

Shalini P

Associate System Engineer at IBM

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“We have a support team in our project, and they are very helpful. Whenever we encounter an issue, they immediately work to have a solution ready within 30 minutes based on severity if it is a P1 or P2 issue. We have not faced many issues with the Couchbase Server support team. We open ticket escalations, they review them, and then they fix the issue..”

Sanjukta Parida

Lead Software Engineer at a tech vendor with 10,001+ employees

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Other Advice

“The first thing I will say is to make the use case clear and also have a total understanding of the learning documents available. I would also recommend Couchbase Server for organizations that need high performance, scalability, flexibility, and low latency. My advice is to first understand your data model and workload. I would rate this product a nine out of ten..”

PranavVighe

Senior Consultant Data Engineer at IRT Digital Analytics

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“The advice is that you will gain software speed. Use Couchbase Server to make your software more scalable. The interview is very good, with questions that are very direct about the product, Couchbase Server.

“I would rate Couchbase Server a ten. I have been using Couchbase Server for ten years, and it is comfortable to use. I gave this review a rating of ten..”

Dev_Dev

Software Developer at a tech vendor with 51-200 employees

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“It is very opinionated because every other database is competing with each other and adding extra new features to be successful. That is why it is a bit hard to give some concrete opinion. My vision for this is if you are experienced enough and you need something flexible where you can enable and disable some features, by keeping key-value storage only or adding SQL++ feature, or adding views, or adding search features, or indexing, Couchbase Server is giving all flexibilities. You can always correctly define how to use memory and how to distribute computer servers' powers. I would give this product a rating of 8..”

Anar Jafarov

Co-founder / Software Engineer at Halalfoodle

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“Regarding Couchbase Server's AI capabilities, I feel a bit nervous about its governance and security, particularly because some of my clients are in the military, where I prefer to have direct control over programming rather than letting AI operate independently.

“Regarding Couchbase Server's AI capabilities, I find its accuracy and reliability of output to be fine, as I haven't had any problems with it.

“My advice for others looking into using Couchbase Server is to set up a local server for better performance, especially if a fast network connection isn't available, as this improves development speed and reliability.

“I have no additional thoughts about Couchbase Server before we wrap up, other than it makes me want to visit the website to see what new updates might be available, as it's a good software that requires finding the right use case. I would rate this product an 8 out of 10..”

Jimd Daugherty

President at JIMD Group

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“Whenever we are dealing with a dashboard, we can use time annotations to calculate performance metrics. Currently, we are using [GCP](#) as a cloud service. We can add time rotation, so if we want to check performance or method outputs, we can utilize system.current time to measure the start and end time for the query operation, which depends on the complexity of the method. Optimized methods yield results in milliseconds, while more complex queries might take longer. I cannot provide an exact estimate, as it all depends on the data complexity. Using an index for frequently accessed data can be helpful since fetching from cache is faster compared to other methods.

“I have not used Couchbase Server's AI capabilities yet. Currently, we are focused on storing and retrieving data faster with Couchbase Server, but I haven't had the chance to explore AI features.

“I haven't utilized the AI capabilities of Couchbase Server, so I'm uncertain about its accuracy or reliability in output. However, Couchbase Server can handle billions of records, fetching them within milliseconds, but without firsthand experience in AI, I cannot provide thoughts on that aspect.

“My advice for others considering Couchbase Server is to determine if the data is structured in JSON format, as it offers significantly improved facilities compared to others. I would rate this product an eight out of ten..”

Saroj Sahu

Technical Analyst at Coforge Growth Agency

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“Couchbase Server supports distributed transactions, which ensures data integrity by supporting distributed transactions across the database. It has a decentralized architecture, which prevents single points of failure and enables seamless scaling and disaster recovery.

“If you want to adopt Couchbase Server, we should take full advantage of Couchbase Server query language, which allows developers to use familiar SQL

syntax to query unstructured and semi-structured JSON data. Leveraging JSON flexibility by designing documents into nested arrays and flattening data together can minimize multi-document joins. This is very useful for using SQL schemas with tables as collections and complex foreign keys. Couchbase Server also has a memory-first architecture that reads data directly from RAM before committing data to disk. It tunes for the active data set. I would recommend every developer to use it. It uses an autonomous operator and tests rebalancing on load. If you want to adopt Capella, there is a team that will fully manage the Capella database as a service to eliminate operational overhead. I would recommend everyone to use this.

“Couchbase Server is a high-performance NoSQL document database. We primarily use it for caching and generative AI to develop modern applications using rapid data access and offline support for offline mobile applications, along with flexible data modeling. We have used it for dynamic product catalogs, user profiles, and web applications.

“When we started using Couchbase Server, it achieved very good critical business and operational results. The major outcome is consistent microsecond to sub-millisecond response times from read and write operations during periods of concurrent requests. Couchbase Server uses a memory-first architecture, which is very easy for integrating the caching layer. Data is read from and returned to RAM before being persisted to disk.

“Couchbase Server has a security architecture that enforces strict data governance and regulatory compliance across distributed edge topology. There is TTL governance that automatically expires sensitive records natively at the document level.

“Couchbase Server version 8.8.0 has achieved a balanced combination of operational throughput and data precision up to 93% accuracy while maintaining performance.

“Couchbase Server is deployed as a database as a service in a hybrid cloud environment. I would rate this review an 8..”

Sanjukta Parida

Lead Software Engineer at a tech vendor with 10,001+ employees

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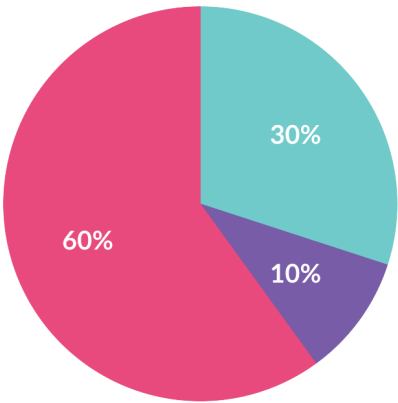
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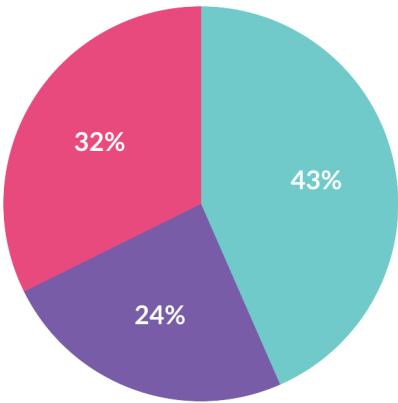


Company Size

by reviewers



by visitors reading reviews



 Large Enterprise  Midsize Enterprise  Small Business

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