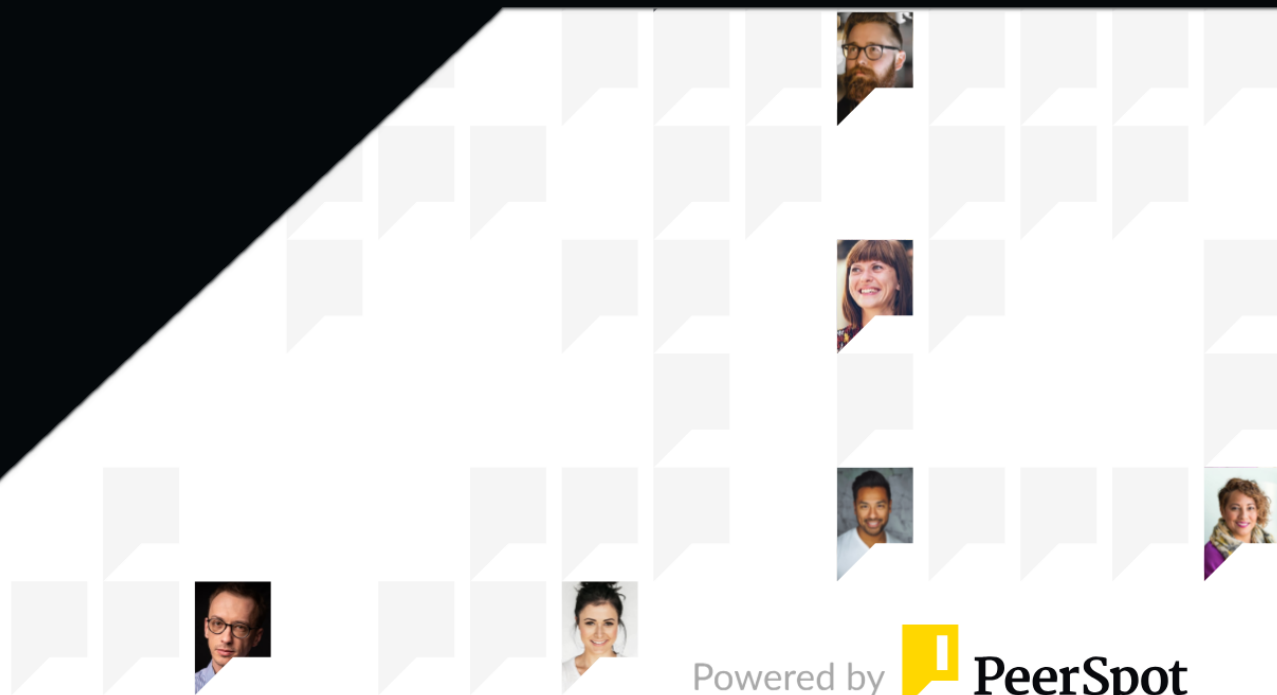




D-Wave Leap

Reviews, tips, and advice from real users



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Product Recap



D-Wave Leap

D-Wave Leap Recap

D-Wave Leap provides cloud-based access to quantum computing resources, enabling businesses to solve complex problems faster. This service leverages quantum technology for practical applications, addressing computational challenges that traditional methods struggle to solve efficiently.

D-Wave Leap is tailored for companies seeking quantum computing advantages in diverse sectors. Users gain access to a quantum cloud platform designed to optimize processes like optimization, machine learning, and material simulation. By harnessing D-Wave's quantum capabilities, organizations can tackle their computational needs with increased speed and performance, supporting innovation and reducing time-to-market for technology-driven solutions.

What are the standout features of D-Wave Leap?

- **Quantum Cloud Service:** Provides access to a quantum computer for real-time problem-solving.
- **Solver Suite:** Includes a set of tools optimized for various computational problems.
- **Integrated Development Environment:** Helps users develop and test quantum applications easily.
- **Scalable Architecture:** Supports expanding applications as user needs grow.

Which benefits and ROI indicators should users look for?

- **Enhanced Problem-Solving:** Solves complex issues faster than classical methods.
- **Reduction in Processing Time:** Speeds up processing for highly computational demands.
- **Cost Efficiency:** Offers a cost-effective quantum computing path.
- **Innovation Enablement:** Drives rapid prototyping and development cycles.

Industries like finance, transportation, and healthcare leverage D-Wave Leap to optimize logistics, improve diagnostics, and enhance financial modeling. By incorporating this quantum computing solution, these industries experience faster computations and streamlined operations, leading to improved outcomes and competitive advantages.

Valuable Features

Excerpts from real customer reviews on PeerSpot:



“One of the best features of D-Wave Leap is that it is excellent for optimization.”



Alisa Kunapinun

Senior Research Fellow at a university with 10,001+ employees



“What I appreciate about D-Wave Leap is that it is very easy to use.”



Boris Yampolsky

Full Stack Engineer at a consultancy with 51-200 employees



“When I saw D-Wave Leap's speed in computation, it is much faster, making it the beauty of D-Wave Leap.”



Juan Placher

CSciO at a healthcare company with 51-200 employees

What users had to say about valuable features:

“What I appreciate about D-Wave Leap is that it is very easy to use. On Python, it is straightforward and easy to understand how to use, and easy to modify anything.

“The key benefits that D-Wave brings to the table really help to structure everything and make for better organization. I was working with it from the start, so I cannot imagine how it would be without it, but without it, it would have been much harder to have an easy and organized scheme of the code and of the project..”

Boris Yampolsky

Full Stack Engineer at a consultancy with 51-200 employees

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One of the best features of D-Wave Leap is that it is excellent for optimization.

What stands out to me about the optimization feature is that it utilizes quantum annealing, which I believe is better than simulated annealing or tabu search. That is why I selected this option, although I remain uncertain about its superiority in the future.

“Regarding D-Wave Leap's AI accuracy and reliability, it can track back and recheck using their energy output, so I can trust the results based on the energy, which is satisfactory. .”

Alisa Kunapinun

Senior Research Fellow at a university with 10,001+ employees

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“The best feature that D-Wave Leap offers in my experience is computational power; that is why I initially tried it, and in that sense, it is great, but I think usability is the weakest part in my opinion.

“Regarding computation power as a standout feature, D-Wave Leap has helped me with speed and handling complex data sets. I was really happy with the machine learning tools timeline since I start real computation and comparing different machine learning models. When I saw D-Wave Leap's speed in computation, it is much faster, making it the beauty of D-Wave Leap. Once everything is set, it could be really helpful, and explainability is also a little bit different from what I am using in machine learning and for life sciences, I think that is the most important part for me.

“Regarding D-Wave Leap's AI capabilities, I think it has taken care of governance and security, which is a key part, especially in life science. Right now, it is a basic feature, so I see that it is covered, and it is okay..”

Juan Placher

CSciO at a healthcare company with 51-200 employees

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Other Solutions Considered

I previously tried using IBM as a solution, but I found it difficult to use and did not continue because of the free license. I just wanted to try D-Wave Leap since quantum computing was just starting.

Alisa Kunapinun

Senior Research Fellow at a university with 10,001+ employees

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“D-Wave Leap was the first tool I knew and it seemed to be the one I wanted to use, but right now it is not exactly what we need, and maybe in the future it will be..”

Juan Placher

CSciO at a healthcare company with 51-200 employees

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Use Case

My main use case for D-Wave Leap is research, specifically anything about how to use D-Wave Leap for optimization. Currently, I use it for classifying whether post-COVID patients have problems or not, and I will soon expand its use to aquaculture systems and medical terms.

I chose to use D-Wave Leap for classifying post-COVID problems because of university support.

“I normally want to apply it in machine learning as generative AI, but currently, I'm still not sure which application I can use because I only have twenty minutes per month and need to make sure the dataset is small enough for D-Wave Leap. .”

Alisa Kunapinun

Senior Research Fellow at a university with 10,001+ employees

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“My main use case for D-Wave Leap is to compare it to machine learning, so I was looking for use cases in the genetic genomics area mainly and I wanted to test the potential of the tool in terms of knowing which leverages or features influence more the output of different medical cases.

“A quick, specific example of how I use D-Wave Leap for that comparison in a genomic scenario is that I have more than 100 machine learning models in production right now, with all the features, validations, evaluations, and everything. I simply check and use D-Wave Leap as a contrafactual, as another tool to see if I get the same results, and the most important thing for me is explainability. I want to know if the output is the same, which in most cases it is, but it changed the view of the features that have more weight in those outputs, and in many genomic diseases I have compared more than 10 machine learning models versus D-Wave Leap..”

Juan Placher

CSciO at a healthcare company with 51-200 employees

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“I was using the hybrid quantum computer from D-Wave Leap for solving big and complex QUBO tasks.

“I did not utilize D-Wave Leap's Hybrid Solver Service as I was working in code mostly.

“I integrated the Ocean SDK in my workflow, though I do not remember the exact details of what we were using it for.

“I would describe the benefits of using D-Wave Leap for optimizing supply chain operations by saying we had no such tasks.

“I did not use the machine learning enhancements in D-Wave Leap..”

Boris Yampolsky

Full Stack Engineer at a consultancy with 51-200 employees

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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.

“My main concern is the preliminary setting of the environment where I have to work, whereas in machine learning I directly start with the tool and start with the computation, calculations, and even data wrangling. With D-Wave Leap, I have to set up a certain environment that I think is a little bit rough and you lose some focus and time..”

Juan Placher

CSciO at a healthcare company with 51-200 employees

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“The deployment part of the initial setup took approximately 10 minutes to wait until the computing would be completed on the quantum computer and on the hybrid computer. There was always some queue, but it was acceptable. At one point, we discovered that it was better to run the processes at night, and this became easier and faster..”

Boris Yampolsky

Full Stack Engineer at a consultancy with 51-200 employees

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Customer Service and Support

“The customer support of D-Wave Leap was efficient. I just had to use it for a little issue about the password, and it was fast and secure, everything was fine.

“I would rate the customer support a nine..”

Juan Placher

CSciO at a healthcare company with 51-200 employees

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“I had a question for the technical support team at D-Wave Leap, and they answered me in approximately an hour, so it was very fast. I had a technical question about how large of tasks the model can accept, and the response was fast and included information that was not available on the website.

“On a scale of 1 to 10, I would rate the technical support of D-Wave Leap 100 out of 100 because it was excellent..”

Boris Yampolsky

Full Stack Engineer at a consultancy with 51-200 employees

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Other Advice

“We purchased everything from D-Wave directly.

“Given my experience working with D-Wave Leap, I do not have any specific advice or recommendation that I can share with other organizations considering D-Wave Leap. If they are considering D-Wave Leap, they need it for their project, and for using D-Wave Leap, it is better to use the best libraries and programs to work faster.

“I would rate my overall experience with D-Wave Leap at 9.5 out of 10..”

Boris Yampolsky

Full Stack Engineer at a consultancy with 51-200 employees

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I would rate D-Wave Leap an eight or nine, around eight point five. I chose nine for my rating because everything in the system is high level and very easy to use, but there are limitations that prevent me from using it at full scale.

As far as I know, Florida Atlantic University provides D-Wave Leap computing inside the university, so I am uncertain if this is a public cloud or private cloud.

“My advice for others looking into using D-Wave Leap is that if you want to solve optimization problems, selecting D-Wave Leap is a good option. Otherwise, you can use other methods such as AI calculations, machine learning, or mathematical optimization, as D-Wave Leap is still a small computation machine and high-priced. My overall rating for D-Wave Leap is nine out of ten. .”

Alisa Kunapinun

Senior Research Fellow at a university with 10,001+ employees

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“On a scale of 1 to 10, I would rate D-Wave Leap a seven.

“I give it a seven because the computation is really good, with great speed and time for analyzing and running models and calculations, but I do not go to 8, 9, or 10 because of the issues I already explained, such as setting up and really understanding the core and engine of the tool, which I believe is still in development and will become a great tool over time.

“As for how D-Wave Leap is deployed in our organization, we have a private cloud and have changed different providers, but we have a private cloud, and for some specific projects, we have on-premise as well.

“For our private cloud, we use [AWS](#), and another part of the company uses Microsoft.

“I would advise others looking into using D-Wave Leap to have clearly defined use cases and determine if they need real computational power, as that is when they would find D-Wave Leap really useful. If not, they might find a tool that is not for them..”

Juan Placher

CSciO at a healthcare company with 51-200 employees

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