Outposts

Top Reasons Why Azure Databricks Is Ideal for Big Data Workloads

Data fuels modern software, yet making the most of it requires the right tools. We've learned first-hand the importance of selecting the right platform for storing, processing, and analyzing information. This is especially true for big data projects since they have unique needs — the system has to handle tons of information and enable us to efficiently make sense of it.

Many automatically turn to tried-and-tested on-site data warehouses. A few years ago, that made complete sense. However, maintaining these systems in-house comes with major headaches that slow progress, which isn't ideal in a modern DevOps environment. They just aren't designed for the flexibility we need now.

Others adopt basic cloud data storage tools, thinking they solve the scaling problem. However, these tools usually lack the built-in features to handle advanced analytics and machine learning, critical for processing large amounts of data.

But we can remove the roadblocks and accelerate insight. We can make it easier for software engineers and data scientists to seamlessly collaborate. And we can help them spend time discovering through data rather than focusing too much on operational tasks.

And we can achieve it with Azure Databricks. That's why we've come to love it.

Azure Databricks provides a cloud-optimized platform for large-scale analytics, making it simple to deploy and flexible to scale without the traditional headaches. Unlike many other options, it's a single integrated environment for standard SQL-style data warehousing tasks and advanced analytics using Python and other programming languages. There's no need to integrate multiple complex systems.

This means any team can leverage their existing data skills to easily ingest data, ensure quality, apply governance policies, build machine learning models, run big computations, and translate raw data into insights using one tool.

Finally, let's mention cost-effectiveness. Now, running dozens of distributed servers is expensive, but Azure Databricks leverages auto-scaling clusters and pay-per-use pricing, so you only pay for resources used. This is how you can keep costs aligned with workload needs.

If you feel overwhelmed by your efforts to extract value from data, give Azure Databricks consideration. In our practice, it breaks down the barriers so all the teams can work creatively together. And isn't that what we ultimately want? To build great products powered by analytics we can trust.

Dmitry Vishnyov
Co-founder & CBDO

OUR CONTACT

+357 25 059376

hello@itoutposts.com

www.itoutposts.com

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