Accelerating the Path to Production-Ready AI

Red Hat Software Partner

dotscience

"The world of ML has a lot to learn from all the best practices developed to handle the Software Engineering lifecycle in the last 10 years. Dotscience has the potential to bring some of those hard-learned lessons to the ML world without forcing data scientists and researchers to completely abandon their tools of choice, like Jupyter Notebooks. It's a bold proposition and has the potential to make a huge impact."

Luca Palmieri
Machine Learning and Data Engineer, TrueLayer

Red Hat
Technology Partner

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redhat.com   Product Brief DotScience

Dotscience – An MLOps Platform to Simplify, Accelerate and Control AI Projects

Dotscience's MLOps platform achieves reproducibility, accountability, collaboration, continuous delivery and monitoring across the entire model lifecycle. From data and model versioning and provenance, to model training, deployment, and monitoring, Dotscience enables DevOps style workflows. These workflows reduce the adverse impact in ML teams who are blocked getting models into production, struggling with monitoring models because they're different to software/DevOps, and collaborating using ad-hoc methods.

Product profile

Dotscience's MLOps platform combines three disciplines: software engineering, DevOps and machine learning. Our platform is a place where data engineers, data scientists, DevOps engineers and their managers can collaborate to train machine learning models, build them into Docker images, deploy them into production, and monitor and maintain them once they're running in production.

Dotscience and Red Hat OpenShift

Containers and Kubernetes help accelerate machine learning lifecycle, as these technologies provide data scientists and software developers with agility, flexibility, portability, and scalability to train, test, and deploy ML models and associated intelligent applications in production. Red Hat OpenShift is the industry's most comprehensive Kubernetes hybrid cloud platform. It provides the necessary benefits for machine learning by leaning on Kubernetes Operators, integrating DevOps capabilities, and integrating with GPU hardware accelerators. By configuring Dotscience to deploy ML models to OpenShift with the Dotscience OpenShift Operator, you combine the powerful, data scientist-friendly workflows from Dotscience, with Red Hat's more reliable and scalable enterprise Kubernetes platform with integrated DevOps capabilities.

Product benefits

- **ACCELERATE AI PROJECTS.** Optimal team productivity from run tracking across datasets, code, notebooks, models & metrics.

- **STRONG MODEL ACCOUNTABILITY.** Ability to track back from any decision made in production guarantees compliance.

- **RUNS ANYWHERE: PUBLIC, PRIVATE, HYBRID.** Zero dependencies so Dotscience runs anywhere whether laptop, GPU rig, enterprise data center or cloud.

- **END-TO-END AI PLATFORM.** From development to production, track full evolution of a model and metrics throughout the lifecycle.

Dotscience is an end-to-end MLOps (DevOps for ML) platform allowing AI/ML teams to achieve:

- **Model Reproducibility**

- **Accountability, Provenance**

- **Asynchronous Collaboration**

- **Continuous Deployment and Monitoring**

"Dotscience delivers key AI/ML requirements":

Model inventory. Rather than many systems where people track things manually, see the different models being developed across the org and the state of those models

Model management. Able to easily deploy models into test & staging & production environments

Infrastructure management. Provide data scientists access to the compute they need when they need it, both on prem and on cloud, rather than ad-hoc approaches to provisioning and consuming resources

—

Charles Radclyffe
Former Head of AI, Fidelity International

"Developers and architects looking to build new applications in, and for the cloud, or migrate existing applications to a cloud-based infrustructure, partner with Red Hat to develop and deliver more support-able solutions sooner. Red Hat certification assures a supportable platform for all types of customer deployment models. Red Hat is thrilled to work with software partners like DotScience, resulting in the world's largest open, and commercially supportable application ecosystem."

—

Mike Werner
Senior Director of Marketing, Red Hat

Helpful Links

Dotscience – Product

Dotscience – Solutions

MLOps Manifesto

Red Hat Marketplace

Red Hat Catalog

Learn more

Company: Dotscience   Contact: markw@dotscience.com   URL: dotscience.com

About Partner

Dotscience, the pioneer in DevOps for machine learning (ML), brings DevOps principles followed by high-performing software teams to ML and data science. The Dotscience software platform for collaborative, end-to-end ML lifecycle management empowers ML and data science teams in industries including fintech, autonomous vehicles, healthcare and consultancies to achieve reproducibility, accountability, collaboration and continuous delivery across the AI model lifecycle. Founded in 2017 by container storage veteran Luke Marsden, Dotscience is headquartered in the UK with offices in the US. Its mission is to accelerate and unlock the true value of data and analytics assets through AI.

About Red Hat

Red Hat is the world's leading provider of enterprise open source software solutions, using a community-powered approach to deliver reliable and high-performing Linux, hybrid cloud, container, and Kubernetes technologies. Red Hat helps customers integrate new and existing IT applications, develop cloud-native applications, standardize on our industry-leading operating system, and automate, secure, and manage complex environments. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500. As a strategic partner to cloud providers, system integrators, application vendors, customers, and open source communities, Red Hat can help organizations prepare for the digital future.

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North America	Europe, Middle East, and Africa	Asia Pacific	Latin America
1 888 REDHAT1	00800 7334 2835	+65 6490 4200	+54 11 4329 7300
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