Validated Design for DataRobot

Everything you need for automated machine learning

The groundbreaking possibilities of artificial intelligence (AI) are creating a lot of buzz across a wide range of industries. A big part of that buzz is machine learning (ML), a subset of AI that refers to giving computers the capacity to learn new tasks without being explicitly programmed by humans. As a critical underpinning of AI, companies worldwide are seeking to support ML solutions that better enable data scientists to uncover the value hidden in vast amounts of data.

One of the most important elements of any ML platform is its ability to democratize data access — empowering users to quickly and easily build predictive models with full transparency. That's why many organizations are choosing DataRobot®, an advanced enterprise AI software platform that encapsulates the knowledge, experience and best practices of the world's leading data scientists into an automated ML solution so you can quickly and easily build highly accurate predictive models without previous coding and ML skills.

Dell Technologies worked with DataRobot to bring you the Dell Technologies Validated Design for DataRobot. You can accelerate AI success with the team you already have in place because DataRobot automates many of the tasks needed to develop AI and ML applications, enabling more people to succeed with ML by simply utilizing their understanding of their data and business and letting DataRobot do the rest.

For added flexibility, the Dell Technologies engineering-validated design for DataRobot can be delivered as a system that's optimized specifically for your unique workloads and use cases. Together, Dell Technologies and DataRobot deliver simplicity, automation, accuracy and transparency to help you create an AI-driven enterprise.

Dell Technologies Customer Results

2 hours vs. 9 months
to run analysis[1]

218% ROI
over 3 years[2]

1.9 million
rules applied to 165 million transactions per hour[3]

Design Components

Servers	Networking	Software
• PowerEdge C6420	• PowerSwitch S3148-ON (1GbE) • PowerSwitch S5224F-ON (10/25GbE)	• DataRobot • VMware ESXi

[1] Dell EMC Case Study, Autonomous Mining, August 2017.

[2] Forrester Study commissioned by Dell EMC, The Total Economic Impact of Dell EMC Ready Solutions for AI, Machine Learning with Hadoop, August 2018.

[3] Dell EMC white paper, Fighting fraud the smart way — with data analytics and artificial intelligence, December 2018.

Resources

- See the Validated Design
- PowerEdge Validated Designs
- Visit a Customer Solution Center
- Explore the Dell Technologies HPC & AI Innovation Lab.

Learn more

delltechnologies.com/ai
delltechnologies.com/hpc

DataRobot and Dell Technologies

Dell Technologies and DataRobot work together to test and tune AI systems built on the knowledge, experience and best practices of the world's leading data scientists and engineers.

DataRobot offers an automated ML platform for data scientists of all skill levels to build and deploy accurate ML models in a fraction of the time.

Dell Technologies enables organizations to modernize, automate and transform their data center using industry-leading converged infrastructure, servers, storage and data protection technologies. Businesses get a trusted foundation to transform their IT and develop new and better ways to work through hybrid cloud, the creation of cloud-native applications and big data solutions.

Intel® Technologies for Analytics and AI

This reference architecture takes advantage of the 2nd Generation Intel® Xeon® Scalable processors with Intel® Deep Learning Boost (Intel® DL Boost).

Access Intel's optimized software libraries at software.intel.com/ai

DataRobot

D&LL Technologies