

Drive insights faster with H2O Driverless AI on IBM Power Systems with Spectrum Conductor

Highlights

- Automate data science processes to reduce the time to create AI models.
 - Give your team the tools to build highly accurate, ready-to-deploy models.
 - Use multithreaded processing power to get to insights faster.
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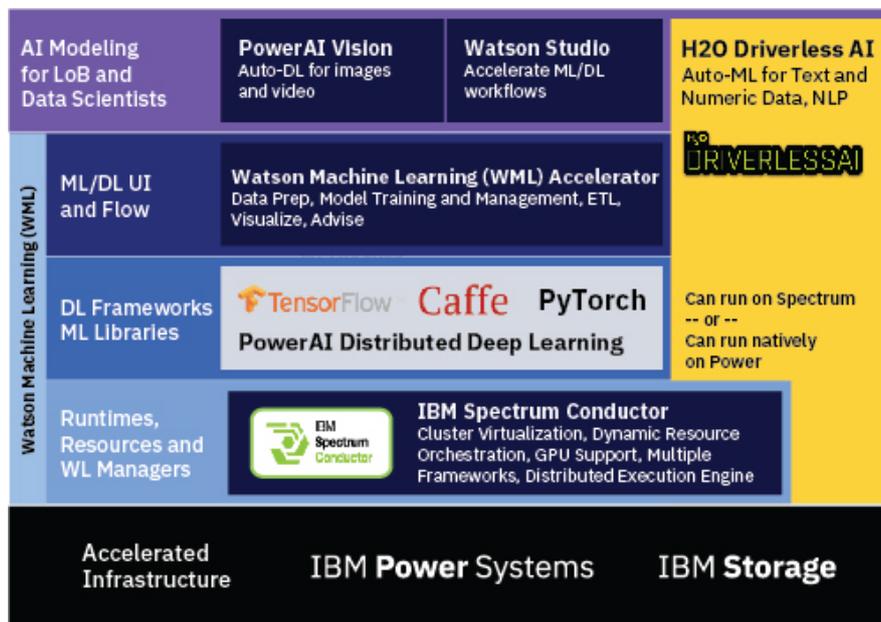
Create AI-driven solutions and put them into production faster

To unlock and scale the promise of delivering on enterprise-ready AI using your proprietary datasets, you need the ability to rapidly deploy data models and the processing power to do it quickly. When it takes billions of data points to uncover the insights that will drive tomorrow's business, what if the most powerful AI products were optimized to run on one of the fastest, heavy-compute-ready systems available?

IBM and H2O.ai have done just that. H2O Driverless AI, IBM® Power Systems POWER9™ servers with GPUs and IBM Spectrum combine to provide you with a powerful hardware and software platform that can reduce modelling time and fast-track your AI projects.

Right now, organizations face two hurdles to accessing fully realized AI insights: a skills gap in data scientists, and the compute power to process new-era big data and artificial intelligence workloads.

H2O Driverless AI on IBM Power with Spectrum Conductor is an automatic machine learning platform that gives you an experienced “data scientist in a box” to create AI-driven products and services to transform your business. The combination delivers increased performance for workloads including the new time series in Driverless AI. That means you can access your proprietary data using automation and state-of-the-art computing power to accomplish in minutes or hours tasks that can take months without acceleration.



Data Science stack - Open Source framework distribution

Automate key data science processes

H2O’s Driverless AI has made automating rote data science processes feasible. You can greatly reduce the time to put AI models into production using Driverless AI’s automatic feature engineering, model validation, model tuning, model selection and deployment, machine learning interpretability, time-series, and automatic pipeline generation for model scoring. Driverless AI can give you a data science platform (Figure 1) that addresses the needs of a variety of use cases for virtually every enterprise in every industry.

Beat the talent gap

Business leaders know that AI is critical to their future but are at a loss to deliver an AI strategy. Finding AI talent can be difficult; AI requires highly specialized skills that can take years to develop. Building AI models can also be slow and time-consuming, which limits the number of problems the business can solve. AI project transparency can limit adoption. If users can't understand the outcomes, they're likely to be uncertain that the methods used can withstand scrutiny from regulators and business stakeholders.

The three top challenges include:

- **Talent:** There aren't enough data scientists to build all the machine learning models needed by businesses.
- **Time:** Machine learning models can take weeks or even months to develop and deploy.
- **Trust:** Business stakeholders and regulators need to know they can trust model results.

Data teams can expand the number of people who can build production-ready machine learning models using H2O Driverless AI. The models can be built in hours or days rather than weeks or months. Finally, the teams get report and documentation automatically generated to help ensure that the business and regulators can trust model results.

About H2O Driverless AI

With Driverless AI, virtually everyone including expert and junior data scientists, domain scientists, and data engineers can develop trusted machine learning models. This next-generation automatic machine learning platform delivers unique and advanced functionality for data visualization, feature engineering, model interpretability and low-latency deployment.

Accelerating H2O Driverless AI with IBM POWER9 and GPUs

The IBM POWER9 processor was built from the ground up for data-intensive workloads like deep learning and machine learning. With industry-exclusive I/O technology, IBM POWER9 includes the next-generation NVIDIA NVLink interconnect for CPU-to-GPU, which improves data movement between the POWER9 CPUs and NVIDIA Tesla V100 GPUs, and is capable of improving the training times of deep learning frameworks allowing enterprises to build more accurate AI applications, faster.

Getting AI to scale with IBM Spectrum Storage

Using H2O Driverless AI on IBM Power systems with Spectrum Conductor puts extreme processing scalability in your hands. You can get at business insights faster because Spectrum Scale can manage data at scale, processing big data and artificial intelligence workloads along with traditional applications while ensuring security, reliability and high performance.

Why IBM?

A winning combination

By running H2O Driverless AI on GPU-equipped Power Linux systems along with Spectrum Storage, you can improve performance of time-series workloads when compared to CPU-only/x86 systems. Time series machine learning looks at data collected over time. This can be used to help predict future sales revenue based on seasonal trends and the current sales pipeline or help to predict equipment failures before they occur based on cascading warning indicators.

Take advantage of this winning combination to provide a boost to your AI solutions.

For more information

To learn more about IBM's partnership with H2O.ai, visit www.h2o.ai/ibm.

To learn more about IBM Watson Machine Learning Accelerator for Enterprise AI, contact your IBM representative or IBM Business Partner, or visit www.ibm.com/us-en/marketplace/deep-learning-platform.

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