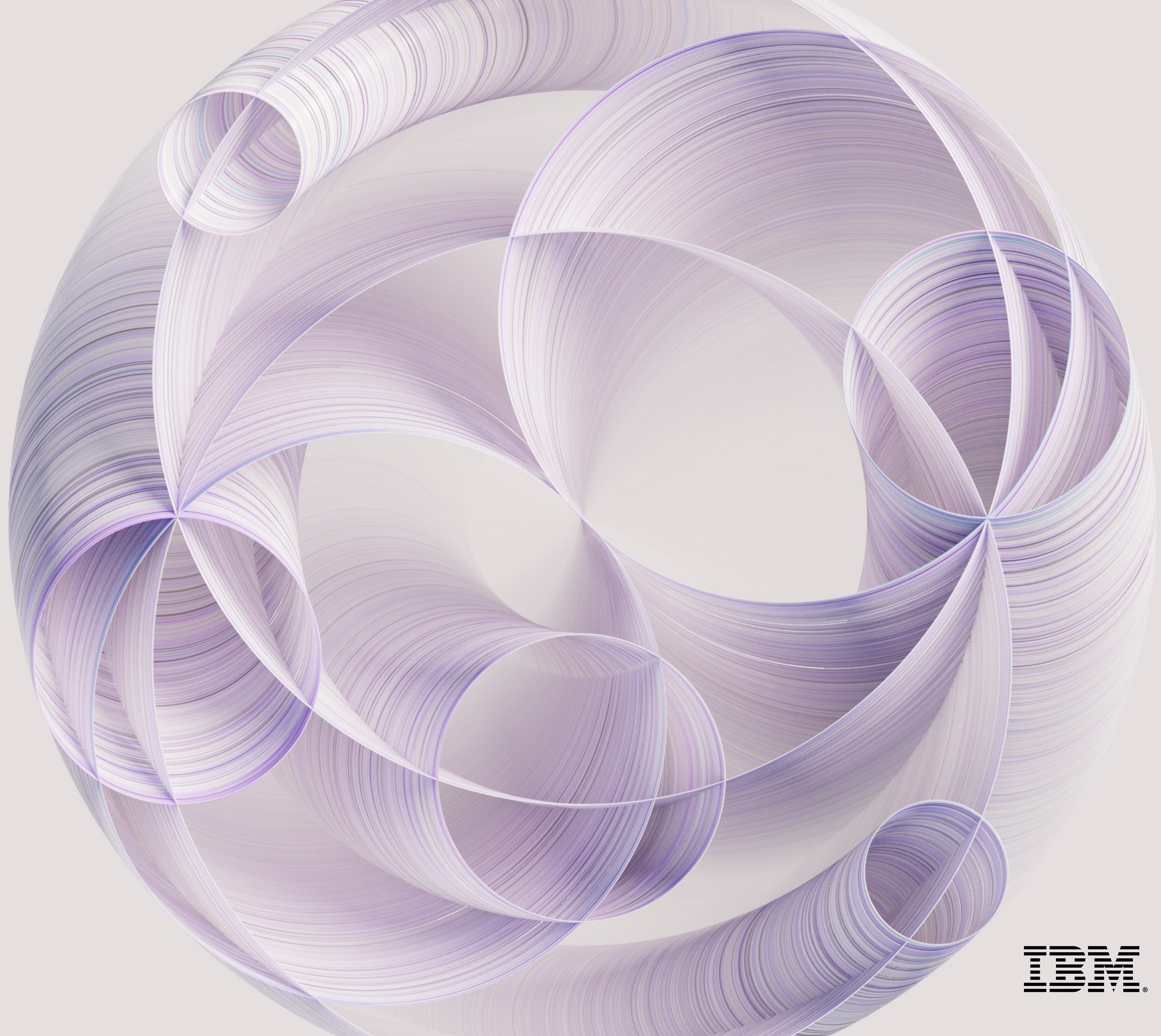


watsonx

Scale and
accelerate the
impact of AI with
trusted data



A new era for AI

We are in one of those rare moments in history, when a new technology innovation arrives that radically transforms business and society.

Artificial intelligence is that technology today.

The majority of AI in production today is based on machine learning (ML). IBM has one of the most comprehensive portfolios to deploy ML in business.

Now, generative AI and foundation models are making massive AI scalability possible.

A foundation model is an AI model that trains on large amounts of general data, which can be adapted easily to new scenarios and use cases.

With each use, foundation models amortize the initial work of AI development.

By 2025, we expect foundation models to power a third of AI within enterprises.

Introducing...

watson**x**

The platform
for AI and data

watsonx

Scale and
accelerate the
impact of AI with
trusted data.

watsonx.ai

Train, validate, tune and
deploy AI models

A next generation enterprise studio
for AI builders to train, validate, tune,
and deploy both traditional machine
learning and new generative AI
capabilities powered by foundation
models. It enables you to build AI
applications in a fraction of the time
with a fraction of the data.

watsonx.data

Scale AI workloads, for all
your data, anywhere

Fit-for-purpose data store optimized
for governed data and AI workloads,
supported by querying, governance
and open data formats to access and
share data.

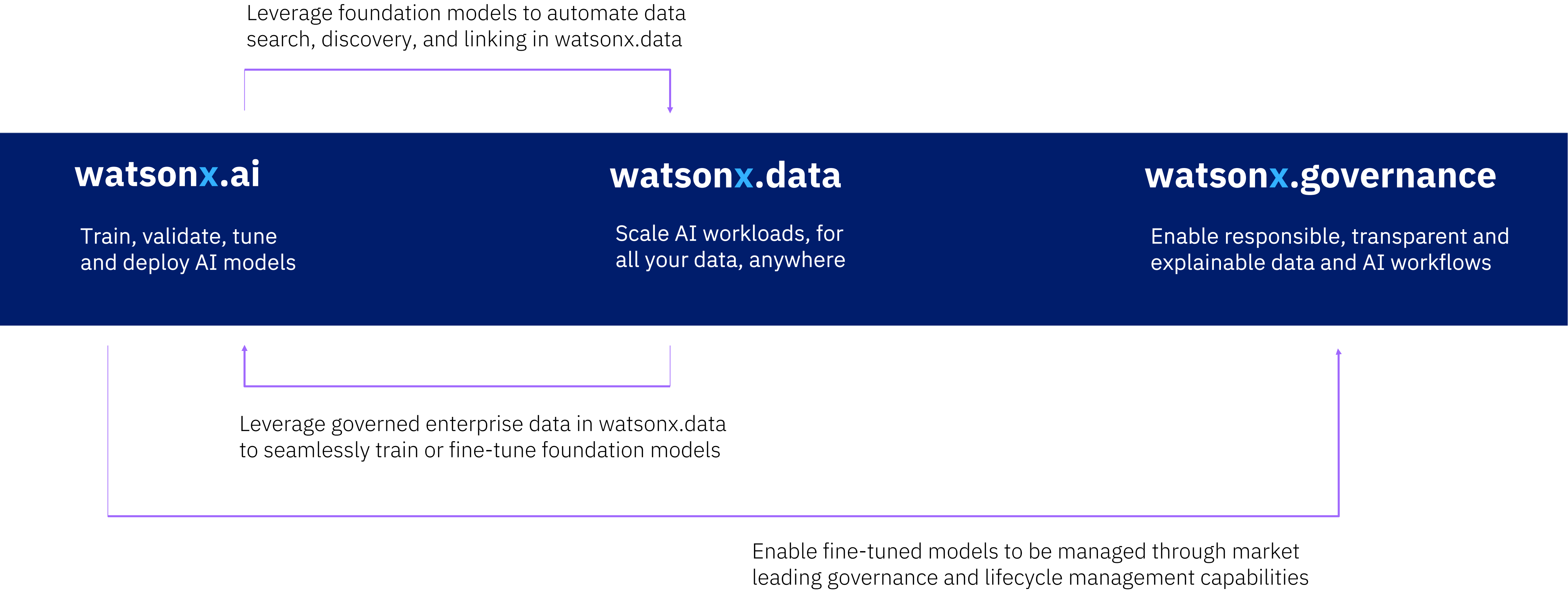
watsonx.governance

Enable responsible,
transparent and explainable
data and AI workflows

End-to-end toolkit encompassing
both data and AI governance to
enable responsible, transparent, and
explainable AI workflows.

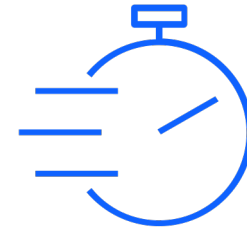
Put AI to work with **watsonx**

Scale and accelerate the impact of AI with trusted data.



Train, validate, tune and deploy AI models

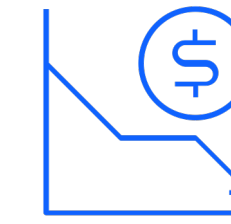
A next generation enterprise studio for AI builders to train, validate, tune and deploy both traditional ML and new generative AI capabilities, powered by foundation models



Leverage foundation models and generative AI with a fraction of the data, in less time leveraging advanced prompt-tuning capabilities, full SDK and API libraries.



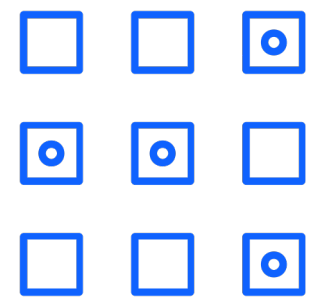
Bring together AI builders using open-source frameworks and tools for code-based, automated, and visual data science capabilities – all in a secure, trusted studio environment.



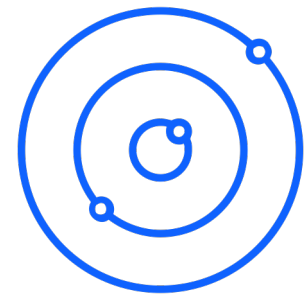
Accelerate the full AI model lifecycle with all the tools and runtimes in one place to train, validate, tune and deploy AI models.

Leverage foundation models and generative AI

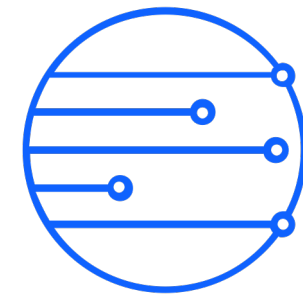
Build AI applications in a fraction of the time with a fraction of the data.



Foundation model Libraries:
Easy access to IBM-proprietary and open-source Foundation Models



Prompt Lab:
Experiment with zero/few-shot learning for enterprise tasks



Tuning Studio: Tailor pre-trained Foundation Models for complex downstream tasks on enterprise data

+ AI Builder API / SDK Toolkit

Workbench tooling and models can be used via GUI or APIs that integrate directly into enterprise applications

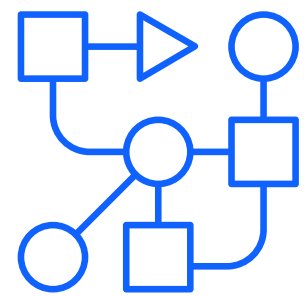
Use cases:

- Generate customized marketing emails
- Summarize Webex meeting transcripts
- Classify customer complaints without labeled data
- Translate code from markdown to html
- Extract key facts from unstructured financial documents

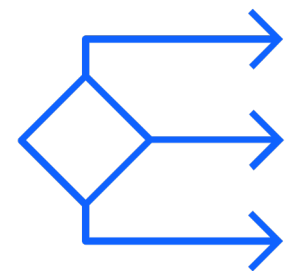
Bring together AI builders using open-source frameworks and tools

A studio for Machine Learning and foundation models to build faster models that brings disparate tools together.

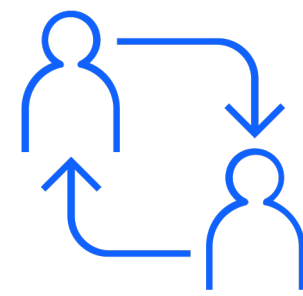
Build predictive and prescriptive models using open source or low/no-code data science tools to improve decision-making.



ModelOps



Automated
Development



Team
Collaboration



Decision
Optimization

Use cases:

- AI based predictions and recommendations
- Pattern and anomaly detection
- Real world business applications e.g., hyper-personalization, production or price optimization, product classification, 10-K classification, SEC, etc.

Accelerate the full AI model lifecycle with all the tools and runtimes in one place

End-to-end orchestration of ML and foundation model workflows in a consistent, repeatable, and automated way.

Automatically analyze tabular data and generate candidate model pipelines customized for a predictive modeling problem.

Unify processes, tools and talent to drive faster return on investment.

Gain efficiency in:

- Data science, ML and AI benefits ranging from \$1.2 million to \$3.4 million in cost savings.
- Container management efficiencies ranging from \$12.5 million to \$14.4 million.

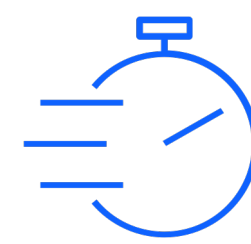
Source: [Forrester's Total Economic Impact on Cloud Pak for Data](#)

Scale AI workloads,
for all your data,
anywhere

A fit-for-purpose data
store, based on an open
lakehouse architecture,
for governed data and
AI workloads



Access all your data
through a single point of
entry across all clouds
and on-prem
environments.



Get started in minutes
with built-in
governance, security
and automation.

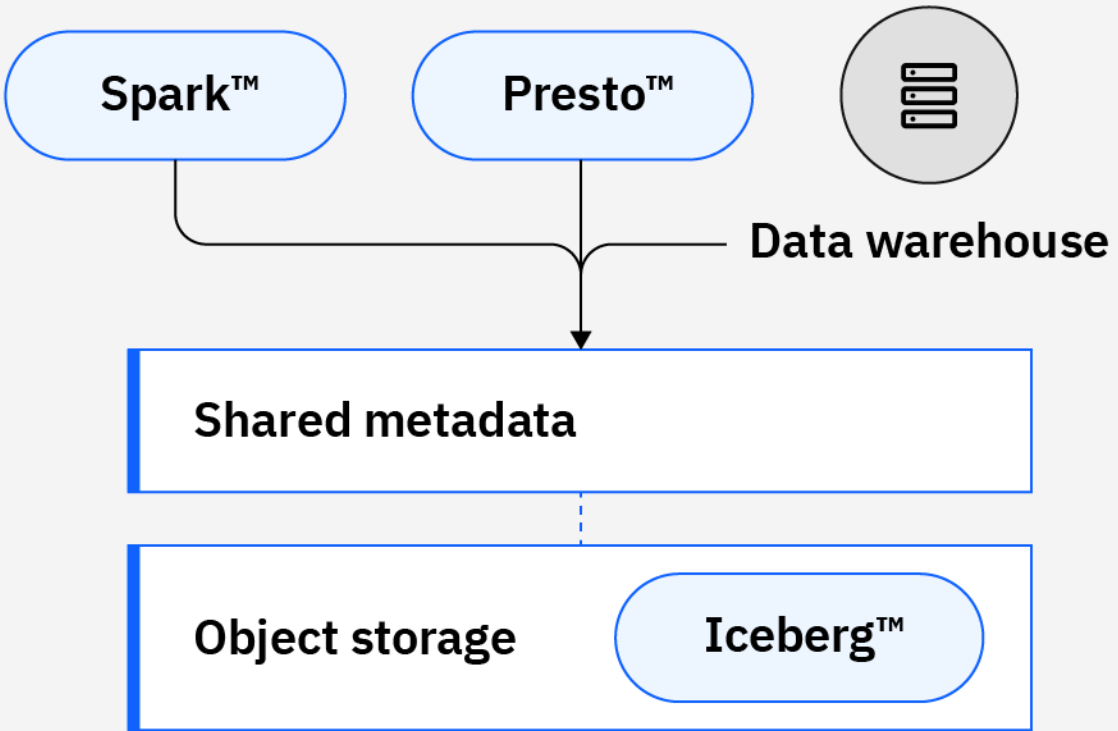


Reduce the cost of
your data warehouse
by up to 50%*
through workload
optimization across
multiple query
engines and storage
tiers.

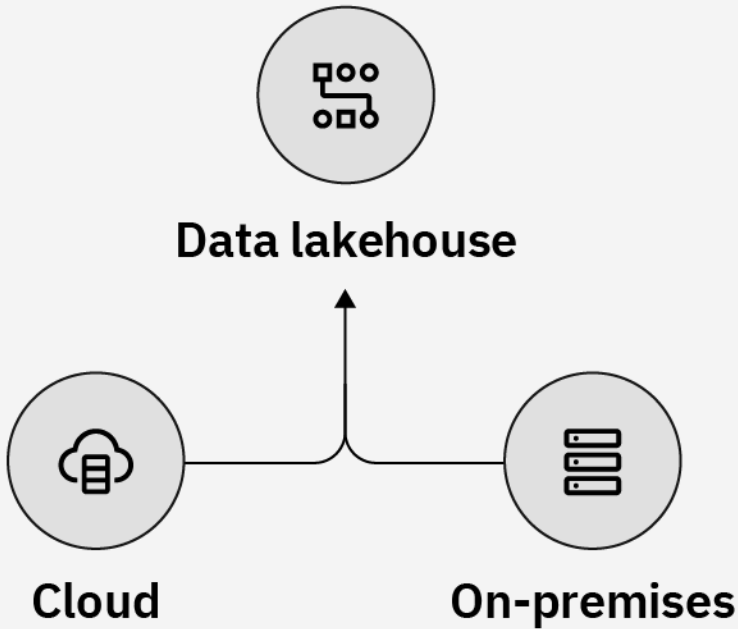
Access all your data across hybrid-cloud through a single point of entry

An open data store built for hybrid deployment of your analytics and AI workloads

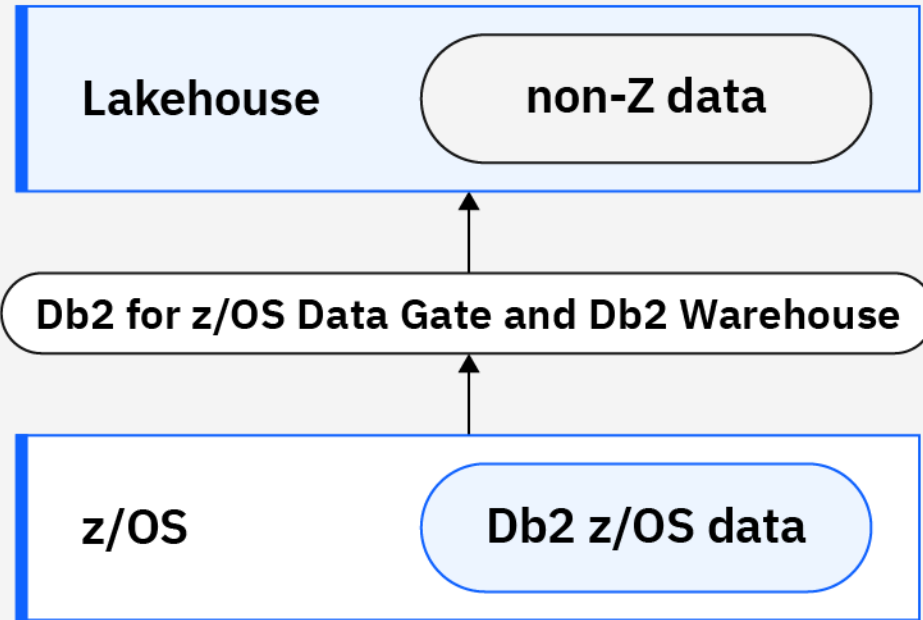
- 1 Share a single copy of data with tools that can read open data formats to minimize data duplication



- 2 Connect to and access data remotely across hybrid-cloud with the ability to cache remote sources



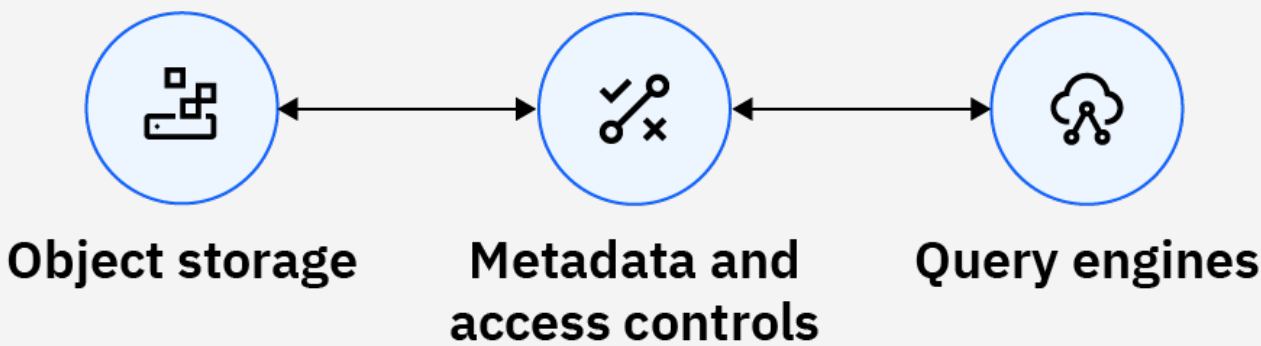
- 3 Synchronize and incorporate Db2 for z/OS data for lakehouse analytics.



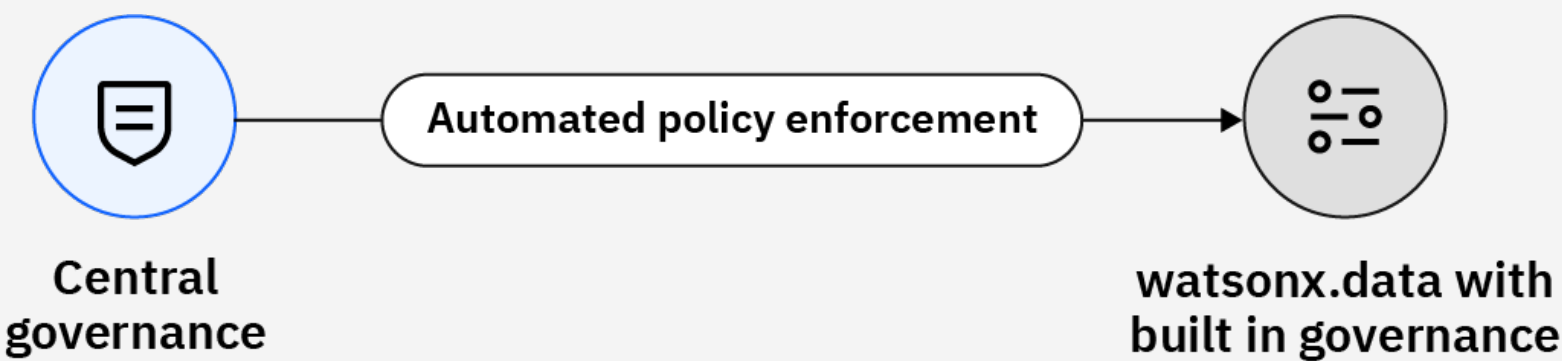
Get started in minutes with built-in governance, security and automation.

Accelerate time to trusted analytics and AI

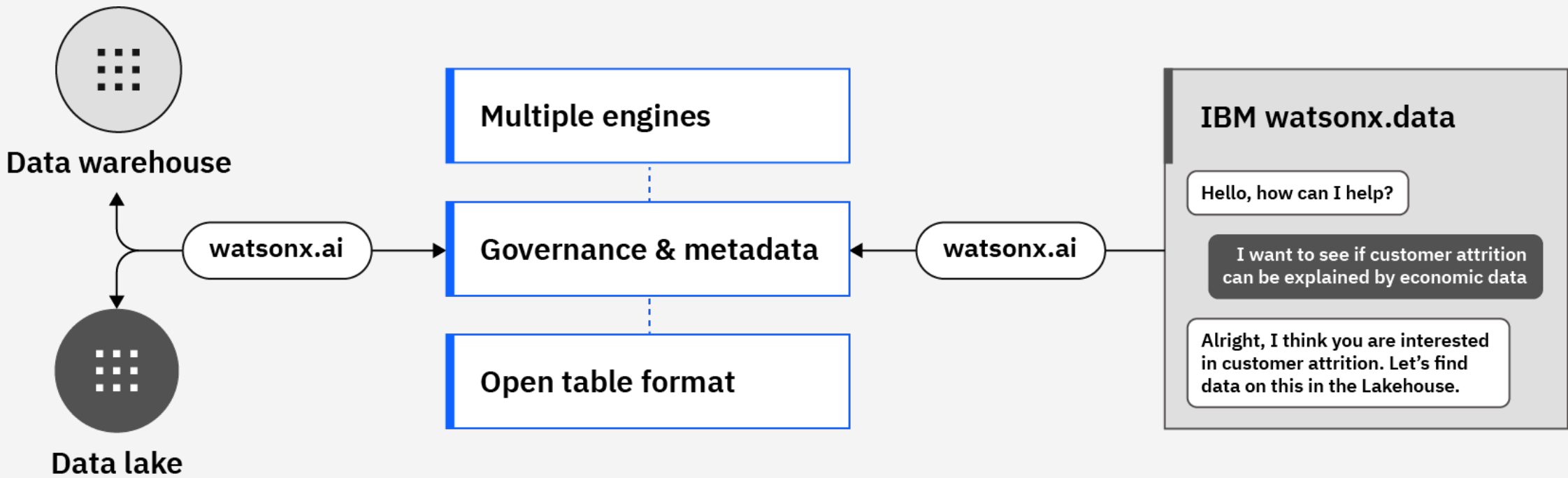
Connect to your existing analytics data and deploy fit-for-purpose engines in minutes



Address enterprise compliance and security using built-in centralized governance across your data ecosystem



Use foundation models to discover, augment, refine, and visualize watsonx.data data and metadata

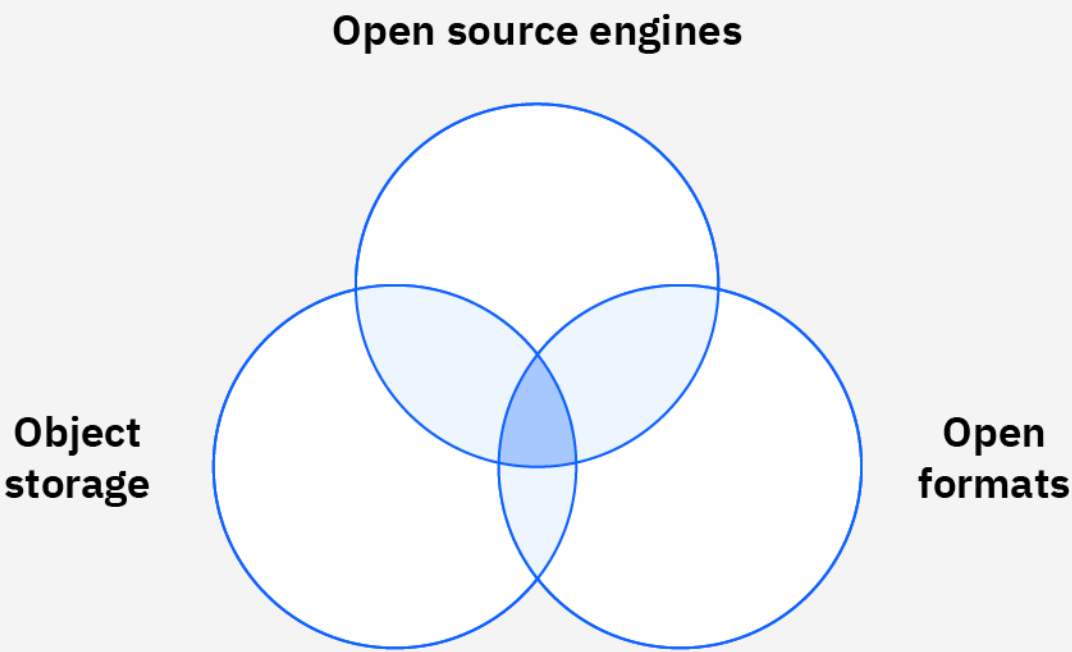


Reduce your data warehouse costs by up to 50%* by optimizing workloads

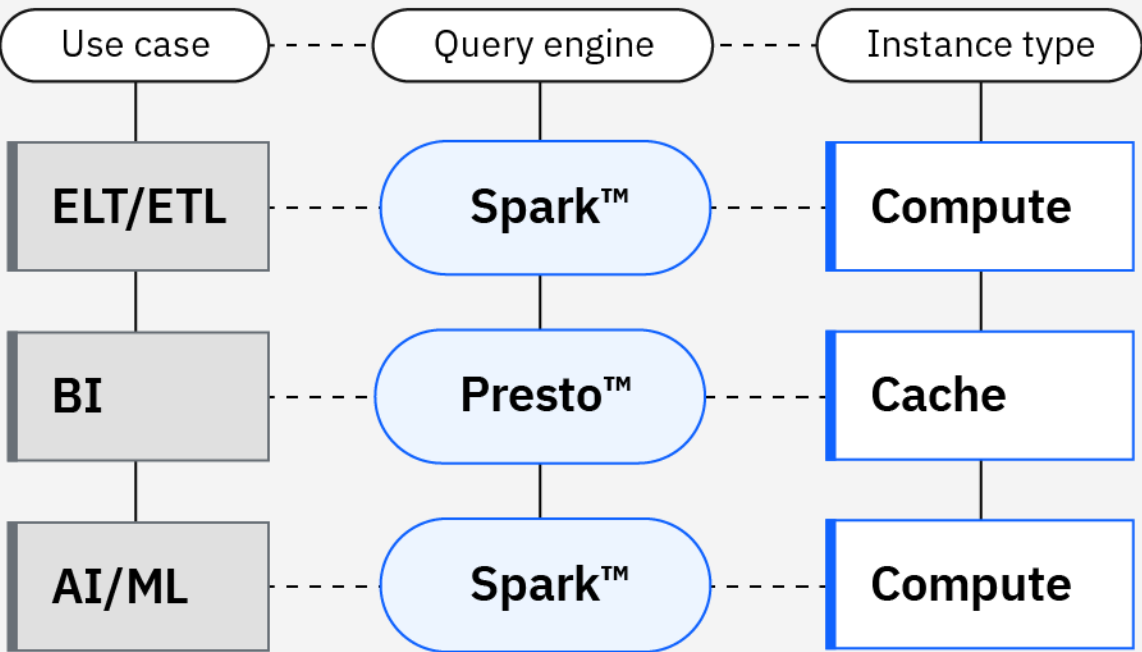
Optimize workloads from your data warehouse when you take advantage of low-cost object storage and fit-for-purpose query engines

*When comparing published 2023 list prices normalized for VPC hours of IBM watsonx.data to several major cloud data warehouse vendors. Savings may vary depending on configurations, workloads and vendors.

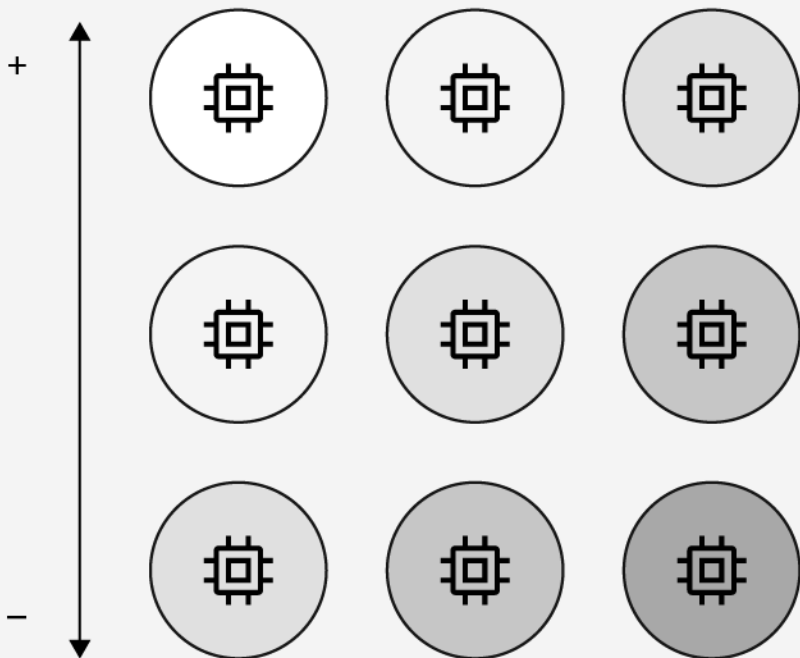
- 1 Share data between multiple analytics engines



- 2 Use fit-for-purpose compute and cache-optimized instances

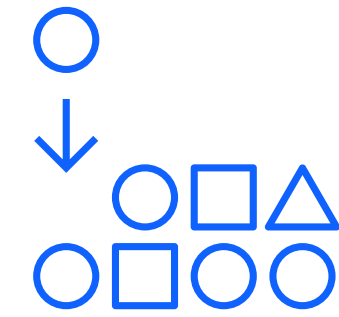


- 3 Scale up and scale down automatically

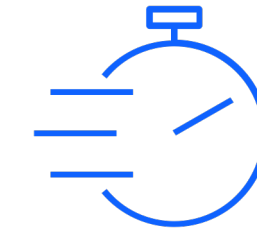


Enable responsible, transparent and explainable data and AI workflows

An end-to-end toolkit encompassing both data and AI governance



Govern across the entire AI lifecycle by automating and consolidating multiple tools, applications and platforms while documenting the origin of data sets, models meta data and pipelines.



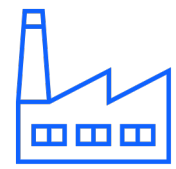
Manage risk and protect reputation by automating workflows to better detect fairness, bias and drift.



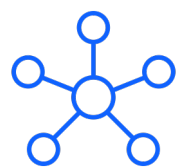
Adhere to regulatory compliance by translating growing regulations into enforceable policies.

Govern across the entire AI lifecycle

Operationalize AI using automated GRC tools for scalability, transparent processes and explainable model outcomes.



Automate AI governance activities



Integrate and augment your existing ML development and deployment with governance

- Increase scalability by replacing time consuming, disparate, manual tools with an automated GRC toolkit spanning the AI lifecycle
- Support the governance of models built and deployed using 3rd party tools.
- Automate metadata/lineage capture through Python notebooks

Manage risk and protect reputation by automating workflows to better detect fairness, bias and drift

Ensure that AI models are behaving with fairness, accuracy and providing ethical outcomes to avoid loss of reputation, audits or fines.

IDEAS

Algorithmic bias isn't just unfair — it's bad for business

If it's not deployed wisely, artificial intelligence can turn consumers off.

By Kalinda Ukanwa Updated May 23, 2021, 3:00 a.m.

YouTube sued for using AI to racially profile content creators

inst black users

RETAIL OCTOBER 10, 2018 / 4:04 PM / UPDATED 2 YEARS AGO

Amazon scraps secret AI recruiting tool that showed bias against women

- Proactively detect and mitigate model bias and drift in runtime using automated GRC tools that trace and document the techniques that trained each model, the hyperparameters used, and the metrics from testing phases
- Decrease the time to model deployment using automated collaborative tools to shorten approval times and eliminate costly human errors
- Provide visibility into metrics and data to help data scientist to further trouble shoot issues and to provide explainable AI insights for stakeholders, stockholders and customers

Adhere to regulatory compliance by translating growing regulations into enforceable policies

Automate the translation of AI regulations into enforceable standards and policies for audit and compliance.



Sarbanes-Oxley Act



- Automate monitoring bias and drift to avoid costly fines and audits associated with noncompliance due to errors involved with manual processes and spreadsheets.
- Provides a single repository of obligation management, that can classify complex regulations and enable stakeholders across the enterprise to more efficiently process large volumes of regulatory data.
- Uses dynamic dashboards and collaborative tools to report on performance metrics to ensure management's need to be informed on compliance to regulations

watsonx

Built on Red Hat OpenShift.
It runs anywhere.

With **watsonx**,
clients and partners
can create unique
business value.

Competitive differentiation and
unique business value will be
increasingly derived from how
customized an AI model can be to an
enterprise's unique data and domain
knowledge.

With **watsonx**, clients have access to
the toolset, technology,
infrastructure, and consulting
expertise to build their own or fine-
tune and customize available AI
models and deploy them at scale for
business success.

An AI and data platform, on hybrid cloud

AI and data platform	<div>watsonx</div> <div>watsonx.ai</div> <div>watsonx.data</div> <div>watsonx.governance</div> <div></div> <div>Cloud Paks</div>
Hybrid cloud platform	<div>Red Hat</div> <div>OpenShift</div> <div>Enterprise Linux</div> <div>Ansible Automation Platform</div>

Unleash the intelligence in your business

AI products	Digital Labor Watson Orchestrate Watson Assistant Planning Analytics	IT Automation Turbonomic Instana	Security QRadar MaaS360	Sustainability Envizi EIS Maximo	Application Modernization API Connect	Software and SaaS partners
AI and data platform	<div>watsonx watsonx.ai watsonx.data watsonx.governance</div> <hr/> <div>Cloud Paks</div>					
Hybrid cloud platform	<div>Red Hat OpenShift Enterprise Linux Ansible Automation Platform</div>					

