How to Make the Most of

DATABRICKS Whether you're preparing to deploy Databricks® for

the first time or looking to maximize the impact of your investment, use this checklist to ensure you're taking full advantage of the capabilities, features and tools this technology has to offer.

Are you properly securing your data environment?

Your organization's data is one of its most valuable assets — the consequences unauthorized access can be catastrophic. Make sure to create a highly secure analytics environment by leveraging

Defense-in-Depth (DiD) security principles. Leverage firewalls and network security. Implement ACLs and identity management. Deploy securely at scale with integrated DevSecOps.

Elevate security as one of your core design principles.

engineering and data science teams.

- Reduce your attack surface with a single, unified analytics
- tool like Databricks. Enable secure and transparent collaboration between data
- Are you properly governing 2 Are you proposition 2 your data environment?



privacy, confidentiality, cost controls and data auditability. Leverage table Utilize cluster Apply Data policies to Lakehouse access access control.

Implementing an effective data governance solution can help

your company ensure that effective rules are in place for data

control through manage cost and Use credential enforce security a combination passthrough for and compliance. of security high-concurrency principals and Implement the clusters. carefully applied

ACLs.

Unity Catalog.

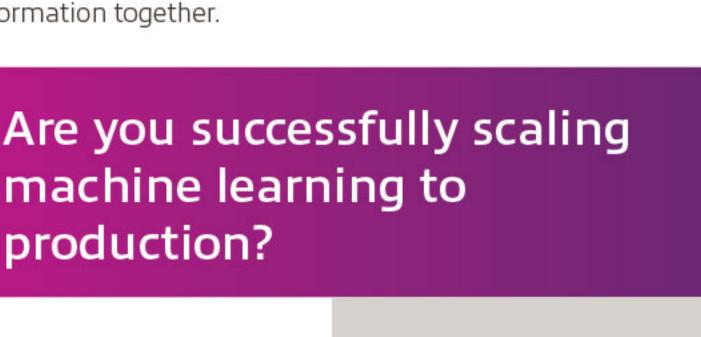
- Take advantage of cluster and workspace access control policies to grant appropriate access to team members.
- Integrate auditing logging into
- your platform and overall development process.
- Do you have observability into the health of your data



practices receive high-quality alerts and log information. Configure Databricks workspaces to send statistics to logging solutions. Enable alerts for critical events (job failure, security violations, etc.).

environment and solution?

 Consistently instrument your notebooks with logging statements. Bring logging and monitoring information together.



Streamline and simplify

your ML pipeline with:

MLFlow

AutoMLTM

The Databricks

Feature Store

Support for Al/

MLOps

sustainable, scalable solution for Machine Learning (ML) is hard work. Organizations need way to quickly

Establishing and maintaining a

validate data to be used for models,

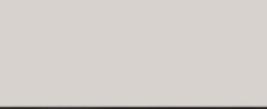
common feature transformations.

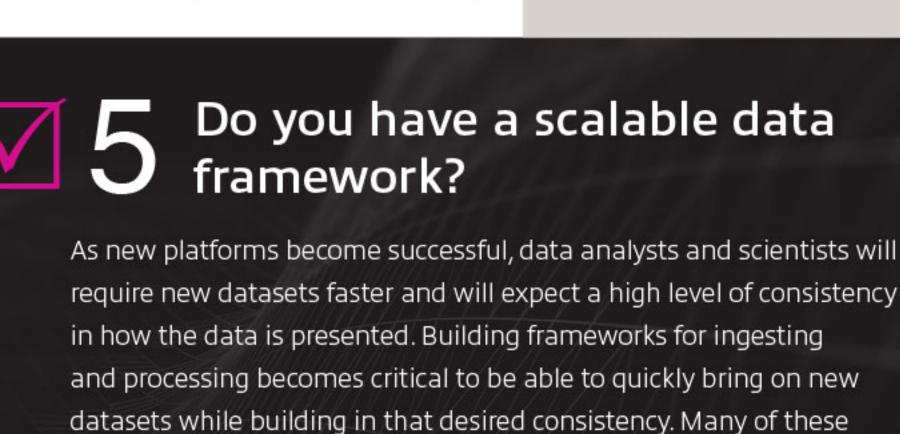
identify and track the best performing

models, deploy to production and reuse

production?

Do you have a scalable data framework?





Provide constancy.

functions vs. native Spark

practices?

continuous integration, make sure that you are

setup for success with your DevOps practices.

Utilize Infrastructure as

Implement CI/CD best

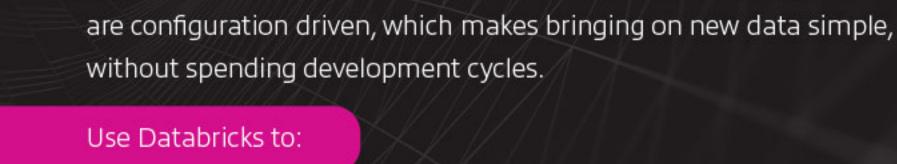
environments.

practices.

Code (IaC) to deploy your

Correctly manage your code.

operations.



Stay configuration driven. Respond quickly to new analytic needs. Expand who can onboard new data.

as you'd like? Simply implementing Databricks should vastly increase the performance of a data solution, but you can do more to increase the performance by utilizing all the features that Databricks makes

6 Is your current Databricks solution performing as well

available. To get the most performance and reduce costs, it's essential to follow best performance practices. Utilize the correct Spark Understand when to use settings and values. Python® vs. Scala. Correctly partition your data. Choose the right storage formats, Understand how to balance Identify the right times to usage of user defined

Are you set up for success

by following proper DevOps

use caching.

Use the best branching

Utilize automated testing.

Follow release management

strategies.

best practices.

- From managing infrastructure and code to continuous deployment, following proper DevOps procedures is critical to any enterprisegrade platform. Your Databricks environment is no different. To ensure a healthy and sustainable solution, while enabling

Are you using all the

development tools and practices at your disposal? When most businesses get started with Databricks, the focus is on development using the web-based notebook environment. Are you sure that you're using all the features and processes available to maximize the value of this environment? Are there new design patterns in the tool that you want to utilize? There may by other processes and tools that can help you get the most out of your investment.

Be sure to explore and evaluate the following development options: Referenceable notebooks **Functions**

 Utilize the state tracking of streaming to prevent batch jobs

With Databricks, stream processing is

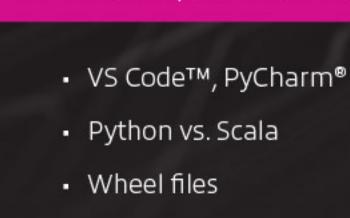
from a queueing service.

Libraries

intelligence. Are you successfully scaling machine learning

from having to track input state.

- to production? Understand the
 - formats. Choose the right compression for your data. Learn how to connect Spark to data storage that



Code management, Git®

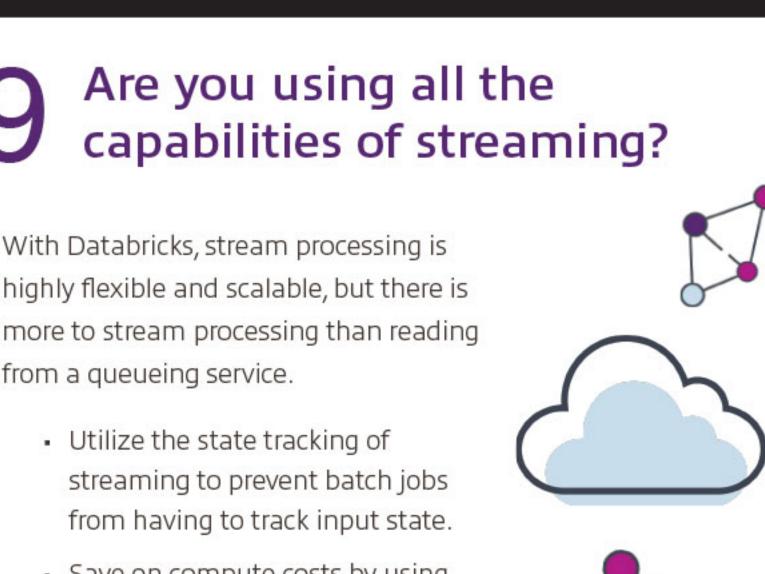
Save on compute costs by using streaming as needed — rather than using it continuously. Stream from cloud files using Auto Loader.

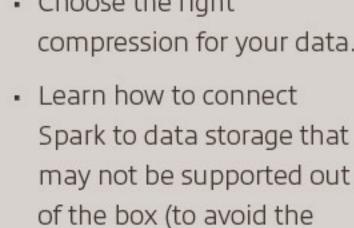
cost of conversion).

- large number of data formats. Using the

Insight.

- advantages and disadvantages of using Delta Lake and other data







- Provide live data to BI tools to provide immediate
 - Are you storing your data in the right formats?
 - right one for the right situation is essential to provide the right flexibility performance that you need.



databricks