Amplifying Timeseries Analytics The Synergy of Seeq and Databricks

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The Presenters

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Performance by design. Caring by choice.[™]



10,000+ global customers

Inventor of the lakehouse & Pioneer of generative

\$1.5B+ in revenue



databricks

The data and AI company

\$4B in investment

Gartner-recognized Leader

Database Management Systems Data Science and Machine Learning Platforms

Creator of



mlflow











Why Databricks for Machine Learning?

What does Databricks bring to the table that amplifies Seeq's capability?





Performance by design. Caring by choice."

Example: CPChem's Digital Rheometer

Real-world Seeq/Databricks ML Application





Digital Rheometer Architecture





Why Databricks as a Data Source?

What are Databricks strengths? What are Seeq strengths?

You have **unconventional** timeseries data, or **IIoT** data that is not integrated with your process control network that you need to analyze. You need to store it and serve it.



COH



Performance by design. Caring by choice.[™]

Example: Ethylene Real-time Optimization

Moving edge network information to the cloud for analysis...















Performance by design. Caring by choice."

Example: Enterprise Mfg Data Reporting

Deliver larger amounts of manufacturing data to traditional business intelligence tools.







Manufacturing Data Enterprise Reporting Architecture





Conclusion: Seeq & Databricks

Better...Together ©



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The Best Timeseries Analytics UI Out There



Simplifies Access to Hard-to-Connect Data Sources

Excellent for "Gridding" Timeseries for Machine Learning Purposes



Formula Language Suitable for Signal Processing and Training Periods

databricks

IIoT Ingestion, Storage, Retrieval Power

Elastic, Distributed Computing Capacity for ML and Data Processing



MLOps: Model Track & Trace and Governance through Unity Catalog

Scaled Data Servicing for Business Intelligence Platforms

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