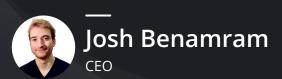
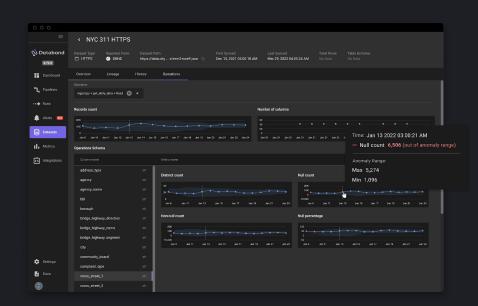


Data Pipeline Reliability





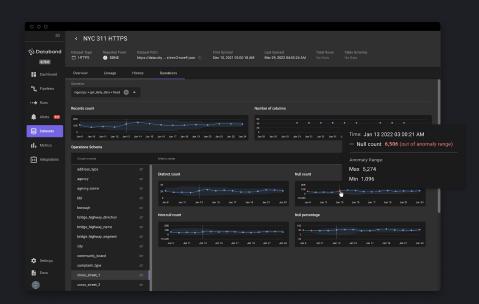
11

Data pipeline reliability means that data is delivered **complete**, **accurate**, **and timely**. It is the foundation for building data quality and trust across the analytics and data science organization.





Data Pipeline Reliability



Process Quality

- Are queries and jobs running efficiently?
- Are pipelines running on time?
- Pipeline Execution Is data flowing?

Data Quality

Data Content Are there significant changes or issues within the data?

- Data Structure Is the data shape valid and complete?
- Data Freshness
 Is data arriving on time?

Our solution Data Monitoring & Incident Response

1. Automatically collect metadata

From all key solutions in the modern data stack.









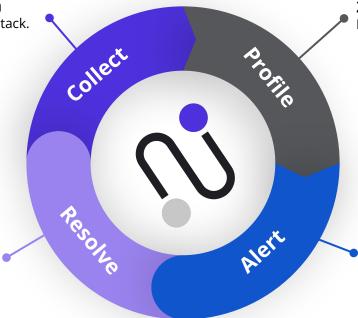






4. Resolve through automation

Create smart workflows to remediate data quality issues and keep SLAs on track



2. Build historical baseline

Based on common data pipeline behavior.



3. Alert on anomalies and rules

Based on deviations or breaches.

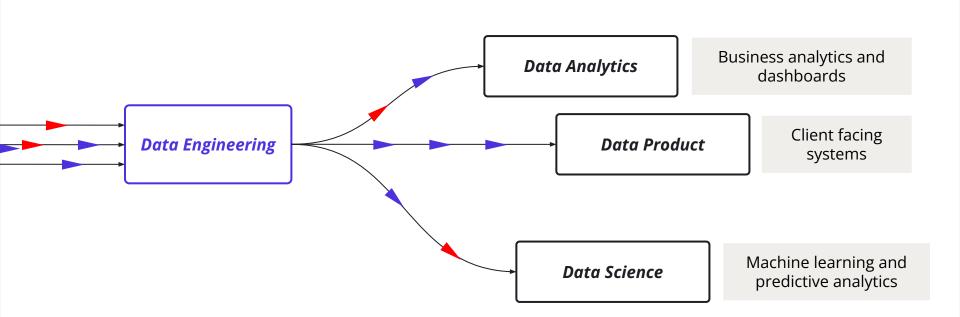


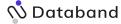
HIGH Alert for a Pipeline: service_311_get_data

- Summary: Duration > 76.39938569068909 seconds or < 6.
- Alert Trigger Time: Feb 02, 2022 8:11:41AM
- Run Start Time: Feb 02, 2022 8:10:06AM
- · Triggerd by: Databand
- Affected Datasets:
 - Writes into dataset BO Hourly Data



Data reliability starts at data platform & engineering





Process Quality Control



Data Quality ____ **Control**



Data Platform SLA

