

BISHAKH DUTTA

Azure Databricks Engineer | Data Governance & Platform Administration | Unity Catalog • PySpark

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PROFESSIONAL SUMMARY

Associate Software Engineer at Accenture on an enterprise Azure Databricks platform team, focused on data governance, access control and usage monitoring. Implements Unity Catalog governance and least-privilege access with Entra ID and Azure RBAC, and builds ADF and Synapse pipelines with PySpark and Delta Lake. Built a Databricks Genie (GenAI) usage and cost tracker with automated weekly reporting through Azure Logic Apps. Combines platform administration with hands-on data engineering and analysis to keep the lakehouse secure, well governed and cost-transparent.

Data Governance • Access Control & Least Privilege • Lakehouse Administration • ETL / Data Pipelines • Cost & Usage Monitoring • Data Security & PII Protection • Automation • Dashboards & Reporting

TECHNICAL SKILLS

Databricks: Unity Catalog (metastore, catalogs, schemas, grants, row filters, column masks, lineage), Workspace Administration, AI/BI Genie, AI/BI Dashboards, Databricks SQL, Delta Lake, Databricks SDK

Azure: Azure Data Factory (ADF), Azure Synapse Analytics, ADLS Gen2, Azure Logic Apps, Microsoft Entra ID (Azure AD), Azure RBAC, Azure Key Vault

Languages: SQL, Python, PySpark, C++, JavaScript DevOps & Tools: Git, GitHub, GitHub Actions (CI/CD), Jira

PROFESSIONAL EXPERIENCE

Associate Software Engineer | Accenture Jan 2026 – Present
Azure Databricks Platform Administration & Data Governance

Usage & Cost Monitoring

- Built a Databricks Genie usage tracker that monitors token consumption and SQL warehouse usage per user and per workspace, giving stakeholders clear visibility into GenAI adoption and cost.
- Automated a weekly usage report with Azure Logic Apps, delivered to the team every Monday with no manual effort, and built an interactive Databricks dashboard for user- and workspace-level drill-down.

Data Governance & Access Management

- Implemented data governance in Unity Catalog: managed catalogs, schemas and table-level grants, and applied row/column-level security so users see only the data they are authorised for.
- Enforced least-privilege access using Microsoft Entra ID groups and Azure RBAC mapped to Databricks permissions; managed access provisioning and user/group onboarding across workspaces.
- Secured credentials with Azure Key Vault-backed secret scopes, removing hard-coded secrets from notebooks and pipelines.

Data Engineering & Analysis

- Developed and maintained ETL pipelines in Azure Data Factory and Azure Synapse that load data into the lakehouse on ADLS Gen2.
- Wrote PySpark notebooks and jobs on Delta Lake, and ran SQL analysis on platform and business data to answer stakeholder questions and resolve data issues.

Software Developer Intern | CuriousJr (Remote) Oct 2021 – Jun 2022

- Built web applications and educational games in JavaScript (Phaser, P2 physics engine) used in student coding courses; earned an early promotion and mentored new interns.

PROJECTS

Unity Catalog Access Governance Automation | Databricks, Python, Databricks SDK, SQL, GitHub Actions 2026

- Built a policy-as-code tool that applies Unity Catalog grants from version-controlled YAML via the Databricks SDK, with every access change reviewed through a CI/CD pull-request pipeline.
- Added permission drift detection that flags excess or orphaned grants against the declared policy.
- Applied row filters and column masks to PII data and built a Databricks SQL audit dashboard showing who accessed which data and when.

EDUCATION

B.Tech, Computer Science & Engineering | Haldia Institute of Technology | CGPA 8.69/10 2021 – 2025