

Personal information

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Summary:

As a professional specializing in Data vertical, I bring ~3 years of experience in developing scalable Data Engineering and Analytics solutions. Experienced in integrating large heterogeneous datasets and translating analyses into operational insights. I thrive at accelerating data processing to empower businesses with informed decision-making.

Professional Experience:

- Sep 2025 – Present** **Digital Infrastructure Intern**
GIZ - Deutsche Gesellschaft für Internationale Zusammenarbeit
Bonn, Germany (On-Site)
- Migrating **on-prem** relational databases into **Airtable** to establish centralized data foundations with interfaces and **RBAC** for Global Energy Transformation programs.
 - Designing **KPI systems** and reporting cadences in **Power BI** to enable data-driven performance monitoring.
- Aug 2025 – Present** **Data Management Assistant**
Institut für Biomedizinische Informatik, Uniklinik Köln
Bonn, Germany (On-Site)
- Processed and curated **large-scale clinical datasets** within the **Research** team, ensuring statistical soundness and reporting-ready quality.
 - Designed and deployed ~3 interactive BI dashboards in **Python (Flask, Plotly)** integrating predictive analytics for clinician decision support.
 - Experimented with **5+ ML/LLM** models (**classification, regression**) to uncover patterns in patient data and benchmarked explainability techniques.
- Sep 2022 – May 2025** **Data Engineer**
Teradata – HQ: California, USA (Remote)
- Built and optimized end-to-end data lifecycle solutions using On-prem (**SSIS/Informatica**) and **cloud platforms** (Azure/AWS) delivering reliable analytics for **Retail & Automotive** clients across **North America & Europe**.
 - Collaborated with **product owners** to convert **10+** business needs into *data models* and **SQL/Python** transformations to deliver ML-ready datasets and clear analyses for market monitoring and compliance.
 - Improved platform reliability via orchestration best practices (alerts/retries, SLAs) while partnering cross-regionally to prioritize data needs and enforce data-quality rules and schema standards.
 - Developed **15+** data pipelines (**ETL/ELT**) to integrate data across **landing** → **staging** → **core** → **semantic layers** to support **self-service** dashboards and model reusability.
 - Documented **runbooks/SOPs** and data access guidelines (**governance/RBAC**) to enable faster onboarding and safer production changes.
 - Managed version control with **Git** and **laC (Terraform)** with **CI/CD** pipelines (**Jenkins/Azure DevOps**) that reduced deployment errors by ~40%.

Education:

- Apr 2025 – In Progress** **Master of Science – Computer Science**
University of Bonn, Bonn – Germany.
- Spatiotemporal Data Analysis, Natural Language Processing, IT Security
- Aug 2018 – Jun 2022** **Bachelor of Science – Computer Science**
FAST NUCES, Islamabad – Pakistan.
- Dean's List of Honors for Academic Excellence (2018 to 2022)

Technical skills:

Domains	Big Data, Data Warehousing/Management/Analysis, Statistical Analysis, ML/AI
Programming Languages	SQL, Python , Java, PL/SQL, T-SQL , C++, Shell Scripting
Frameworks	Pandas, PySpark , NumPy, Scikit-Learn , Regex, TeradataML , Matplotlib, Dash, plotly
Cloud	Azure: Databricks, Data Factory, ADLS Gen2, MS Fabric, AWS: S3, Glue, Data Catalog, Kinesis, Lambda
Tools/DevOps	Azure DevOps, Terraform, Git, Jenkins , Informatica, Power BI, Airflow
Databases	Teradata , Snowflake, MySQL, SQL Server , PostgreSQL

Consulting Assignments:

Volvo Cars, Sweden (Remote) – **Cloud Data Engineer**

Supported data platforms powering connected-car safety, predictive maintenance, and global supply-chain intelligence.

- Built a multi-cloud analytics layer by unifying vehicle telemetry and service **datasets** to deliver predictive-maintenance alerts and vendor dashboards, that transformed repairs from reactive to proactive service planning.
- Replaced pilot-phase manual telemetry ingestion with **scheduled ADF pipelines**, cutting latency **~40%** and enabling consistent analytics access via Lakehouse datasets.
- Improved query speed **~35%** by tuning **PySpark** jobs (**caching, partitioning**) in Fabric & Databricks, enabling faster decisions and smoother data delivery.

Federated Co-operatives Limited (FCL), Canada (Remote) – **Informatica Developer**

Sustaining and scaling the Retail EDW through targeted engineering.

- Designed and delivered 30+ ETL workflows (Teradata & Informatica) and optimized **15+ SQL reports**, cutting execution times by **~30%** to provide faster, high-availability, reporting-ready datasets for dashboards and analysis.
- Partnered with Finance, Logistics, and Marketing on ad-hoc analytics while maintaining data quality: triaged **P1/P2** pipeline issues to meet **SLAs** and provided **24/7 incident support** during a cyber event to validate sales data and minimize downtime.

Academic Projects:

Hate Speech classification and Explainability, AIM Lab – **Research Assistant**

- Developed hate speech detection tool using machine learning and deep learning models to classify and explain text label in layman's terms.
- Emphasized explainable AI techniques to **interpret** and **explain** classifications, including a **Twitter use case** with interpretable features.

Certifications

- [Teradata Vantage Data Engineering](#)
- [AWS Cloud Practitioner](#)
- [Teradata Vantage Associate](#)
- [Microsoft Azure Cloud & Data Fundamentals AZ-900, DP-900](#)

Awards and Achievements

- Teradata Spot Award (March 2024 & 2025 | September & May 2023)
- Teradata Quarterly Excellence Award (Q1 2024)