

# ANKUR ROY

Senior Data Engineer

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## Summary

Data engineer and data science enthusiast with 4 years of working experience in big data engineering, optimizing distributed systems and designing cloud native solutions in the financial and logistic domain.

## Experiences

### Senior Data Engineer at Delhivery Limited | Jan, 2022 - Present

- Architected and developed real-time independent **data mart** with spark streaming and Aurora-Postgres
- Successfully lead the major **migration of data mart** and users from Aurora-Postgres to **TiDB**
- Reduced spark cluster cost by **75% (1.5 Cr)** by optimizing spark, yarn scheduler and implementing **CPU slicing**.
- Developed database maintenance service with airflow to automate partition creation and data cleanup.
- Developed a data observability application to check the health of steaming jobs with prometheus and grafana.
- Extensive experience with **delta file format**, metadata and optimizing techniques with databricks **photon engine**.
- Migrated over **150+** Apache Hudi tables to delta tables with improved overall performance and reduced cost.

### Data Engineer at Infosys Limited | Nov, 2020 - Jan, 2022

- Designed ELT workflow with **Azure** services to manage logistics and financial dataflow for **Kraft Heinz Company**.
- Leveraged **Azure Data Factory** service for orchestrating ELT dataflow pipelines.
- Used **Snowflake** as a data warehousing solution, **Databricks** and **DBT** for data transformation.
- Implemented industry standard designing architecture with virtual networks, key vaults, service principles services
- Developed script to create SQL queries from **SAP HANA** table schema and reduced time consumption by **80%**
- Used **Azure DevOps** for CI/CD, **JIRA** for progress tracking and **Confluence** for documentation.
- **Leading** an off-shore(India) team of 3 data engineers.

### Freelance Mobile Application Developer | Jun,2019 - Oct, 2020

- Developed **AI** enabled native **android** and cross platform **flutter** applications on **MVVM** architecture.
- Developed and integrated REST APIs, firebase database, and firebase analytics with application.
- **Led** a team of **6 developers** and dealt with clients for business.

## Education

### BSc Computer Science (Honours) | University of Delhi | 2020

Minor in Mathematics (Calculus, Linear Algebra, Differential Equations, and Numerical Methods).

Score - **8.16** CGPA

### Senior Secondary Education | Sant Nirankari Public School | 2017

Science Stream with Computer Science.

Score - **88.75** %

## Skills

**Language:** Python, SQL, PySpark, Scala, Java, Dart, Git, Bash, Powershell.

**Database:** Postgres, MySQL, TiDB, SQLite.

**Technologies:** Spark, Databricks, Kubernetes, Springboot, Docker, Delta Lake, Yarn, Flutter, Android.

**Visualization:** Matplotlib, Seaborn, Excel, PowerBI.

**Development Environment :** Linux, MacOS, Windows.

**Cloud:** AWS, GCP, Azure

## Certifications

- Microsoft Certified: [Azure Data Scientist Associate](#), DP-100.
- Microsoft Certified: [Azure Data Engineer Associate](#), DP-203.
- Microsoft Certified: Azure Data Fundamentals, DP-900.
- Microsoft Certified: Azure AI Fundamentals, AI-900.
- Microsoft Certified: Azure Fundamentals, AZ-900.
- Advanced Data Science with *IBM* Specialization, **Coursera**.
- *IBM* Data Science professional certificate, **Coursera**.
- Geospatial Applications for Disaster Risk Management, *Advance Module*, **ISRO and UNOOSA**.
- Geospatial Applications for Disaster Risk Management, *Basic Module*, **ISRO and UNOOSA**.
- Flutter Development Bootcamp with Dart, **Udemy**.

## Achievements and Volunteer Experiences

- Honored with ***Above and Beyond Award*** by Delhivery Limited.
- **Winner** of **Azure-a-thon** organized by Infosys Limited.
- **Speaker** for Flutter Meetup event by Android Developer Club at **Google, Gurugram**.
- Active member of Indian Linux Group Delhi and Android Developer Club Delhi.
- **Rank 31** in DUET 2020, MS Computer Science.
- **Rank 50** in DUET 2020, Masters in Computer Applications.
- **President** of **Physics Society**, Sant Nirankari Public School, 2017.