Anurag Singh

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Summary

Results-driven Data Engineer with expertise in building scalable data pipelines and optimizing workflows using Snowflake, AWS, Python, and SQL. Spearheaded ETL processes at Cognizant, improving operational efficiency by 30%, and automated workflows with Airflow, reducing manual effort by 40%. Developed data pipelines at TELUS Digital using GCP BigQuery, enhancing data processing speeds by 25%. Committed to creating data solutions that drive business insights and impactful outcomes.

EXPERIENCE

ITC Infotech (Fidelity International) — Aug 2025 - Present
Data Engineer — *Gurugram (Onsite)*

- Built and optimized ETL pipelines in Snowflake using SQL and Python, improving data processing efficiency and reliability
- Designed scalable data models to support analytics and reporting, enhancing data accessibility and decision-making processes
- Automated workflows using Control-M, reducing manual intervention and increasing operational efficiency
- Integrated AWS services (S3, Lambda) for data storage and processing.
- Implemented CI/CD pipelines with GitHub for seamless code deployment, ensuring faster and more reliable software releases
- Applied data validation, error handling, and performance tuning.
- Facilitated end-to-end data engineering solutions for Fidelity stakeholders by leveraging ETL processes and data warehousing, enhancing data accessibility and decision-making

Telus Digital — Dec 2024 - Aug 2025
Data Engineer — *Noida*

Data Pipeline Development and Automation

- Designed and implemented an end-to-end ELT data pipeline using Airflow, Cloud Functions, and Workato to automate data extraction, transformation, and loading.
- Ingested data from external APIs and efficiently loaded it into BigQuery, ensuring optimized query performance and cost-effective storage in GCS.
- Developed Python-based automation scripts to handle data extraction, schema validation, and error handling, reducing manual intervention by 90%.
- Built scalable BigQuery tables to store and process large datasets, ensuring seamless integration with downstream analytics and visualization teams.
- Optimized SQL queries to improve data retrieval performance, reducing query execution time by 30%.
- Worked closely with business stakeholders and visualization teams to ensure seamless data availability for reporting and analytics.
- Designed data workflows that efficiently distribute transformed data to multiple visualization platforms, ensuring real-time insights for decision-making.
- Utilized data modeling and database design to structure and organize project data efficiently, ensuring scalability, consistency, and optimized query performance.

Cognizant — Jul 2022 - Dec 2024
Data Engineer — *Noida*

ETL and Data Ingestion

- Developed and maintained robust data products (CTEs, Procedures, Views, Tables, Streamlit dashboard) in Snowflake for Bayer, ensuring efficient and cost-effective solutions.
- Automated data ingestion processes from Amazon S3 to Snowflake and optimized workflows, resulting in a 20% reduction in processing time.
- Utilized AWS Athena for querying data efficiently, enhancing data analysis capabilities and improving decision-making processes
- Ingested data from various sources into S3 using GLUE pipelines, improving data accessibility and integration
- Implemented a comprehensive data quality framework, achieving a 95% reduction in data errors and ensuring high standards of data integrity.
- Conducted rigorous testing and validation processes to enforce data security and compliance with regulatory requirements.
- Collaborated closely with cross-functional teams and stakeholders to understand business requirements and deliver actionable insights through data products.
- Utilized data modeling and database design to structure and organize project data efficiently, ensuring scalability, consistency, and optimized query performance.

Cognizant — Jan 2022 - Jul 2022
Internship — *Noida*

Data Engineering Intern - MSBI tools and Data Analytics

- Utilized MSBI tools like SSIS, SSRS, and SSMS to automate and streamline data integration and reporting processes.

- Developed and deployed ETL pipelines using SSIS, ensuring efficient data extraction, transformation, and loading from multiple data sources.
- Built interactive dashboards and visual reports in Power BI, leveraging DAX to perform advanced data calculations and analysis.
- Wrote complex SQL queries for data manipulation, extraction, and report generation.
- Integrated Python scripts within ETL processes to automate data cleaning and transformation.
- Designed and implemented data models to optimize querying and enhance reporting accuracy.
- Collaborated on end-to-end data warehousing projects, ensuring data integrity and accessibility across systems.

HACKATHON

Code Generation and Documentation   **Apr 2022 - Jun 2022**
Hackathon   *Noida*
- Led a hackathon project to develop a Code Generation and Documentation Tool, utilizing Python and Streamlit technologies.
- Integrated GitHub for code management and Confluence/Azure DevOps for streamlined documentation upload processes.

SKILLS

- **Programming Languages**: SQL (Structured Query Language), PL/SQL, Python, Pyspark, Spark
- **Tools**: Snowflake, Airflow, ADF, Azure Synapse, SSIS (SQL Server Integration Services), Glue, Talend, Informatica, SDLC/CICD, Kafka, Data Bricks
- **Business Intelligence**: Business Intelligence (BI), Big Data, Data Analysis, Dashboard Development, OLAP
- **Cloud**: Azure, AWS, GCP (Google Cloud Platform)
- **Data Management**: Data Governance, Data Quality, Data Transformation, ETL (Extract, Transform, Load), Data Warehousing, Data Modeling, Database Management, Data Integration, Data Engineering, Data Pipeline Design and Implementation, Data Modeling (Relational, Multi-dimensional), Data Architecture, Performance Tuning/Optimization, Large-scale System Engineering, Real-time and Batch Data Processing
- **Soft Skills**: Problem Solving, Analytical Skills, Critical Thinking, Decision Making, Adaptability, Collaboration, Teamwork, Communication, Project Management, Leadership, Time Management, Strategic Planning, Quality Assurance, Risk Management, Process Improvement

EDUCATION

Galgotias University   **2018 - 2022**
Bachelor of Technology, Electronics and Communication Engineering   *Greater Noida*
- **GPA:** 9.1
- **Achievements:** Awarded the Silver Medal for academic excellence, Published a research paper titled "Plant Disease and Disorder Detection using Image Processing"

Varanasi Public School   **2016 - 2017**
Class 12th, CBSE board   *Varanasi*
- **GPA:** 7.2
- **Coursework:** Physics, Chemistry, Maths

Varanasi Public School   **2014 - 2015**
Class 10th, CBSE board   *Varanasi*
- **GPA:** 8.4
- **Coursework:** All Subjects

CERTIFICATIONS

- **SnowPro Core Snowflake:** July 2024
- **AZ900 - Microsoft Azure Fundamentals:** March 2023
- **AZ204 - Developing Solutions for Microsoft Azure:** June 2024
- **DP203 - Data Engineering on Microsoft Azure:** June 2024