Nikhil Garbhana

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SUMMARY

Innovative Data Engineer with over 5 years of experience in designing and implementing scalable, secure, and cost-efficient data solutions. Proven track record of successfully leading over 10 projects through the full development lifecycle, resulting in a 25% reduction in storage costs, a 20% increase in customer satisfaction, and a 60% improvement in time efficiency. Expertise in architecting automated environments, building real-time data pipelines, and leveraging tools such as Snowflake, SQL Server, Selenium, and Python. Adept at working with big data, cloud technologies, and optimizing data processing workflows.

SKILLS

- **SQL Databases:** Snowflake (SnowSQL, Snowpipe, Snow Streaming, Snowpark), SQL Server, SAP HANA, PostgreSQL
- **Programming Languages:** Python (Pandas, NumPy, Selenium, Flask), SQL, PySpark
- **Cloud Platforms:** AWS, Azure
- **Data Management:** ETL Processes, Data Automation, Data Visualization
- **Project Management:** Requirement Analysis, Stakeholder Coordination, Technical Documentation
- **Soft Skills:** Attention to Detail, Critical Thinking, Problem Resolution, Team Collaboration

EXPERIENCE

Data Engineer | Micron Technology | Hyderabad, India | September 2022 - Current

- Designed and implemented scalable data pipelines, reducing processing time by 60%.
- Developed Flask and Python applications to streamline database access and integration.
- Automated ETL processes, achieving 75% reduction in manual data handling and enhancing data quality.

Data Analyst | Innowatts | Gurgaon, India | August 2021 - August 2022

- Analysed client data to generate actionable insights, improving forecasting accuracy and saving 45% in cost.
- Developed and maintained comprehensive reports and dashboards, utilizing MAPE metrics for performance evaluation.
- Optimized data visualization strategies to aid in long-term financial forecasting and strategic decision-making.

Technical Engineer | YES Energy Solutions | March 2020 - July 2021

- Engineered solutions to enhance data processing efficiency and system reliability.
- Assisted in the development and maintenance of data-driven applications and tools.

Software Engineer | KPIT Technologies | July 2019 - February 2020

- Contributed to software development projects focusing on data management and integration.
- Collaborated with cross-functional teams to deliver high-quality software solutions.

EDUCATION

Bachelor of Technology GPA: 7.18
Electrical Engineering, National Institute of Technology, Kurukshetra May 2019

PROJECTS

- Customer Churn Prediction Pipeline
  - **Data Collection:** Set up APIs to ingest transactional and CRM data.
    - Faker to create required data.
  - **Data Ingestion:** Real-time data ingestion from APIs, databases, and streaming sources.
    - APIs and batch ingestion using tools like Airbyte or custom Python scripts
  - **Data Storage:** A centralized data lake and a data warehouse.
    - Raw Data: AWS S3 / GCP Storage as a data lake.
    - **Processed Data:** Snowflake / BigQuery as a data warehouse.
  - **Data Transformation:** ETL/ELT pipelines to clean and transform raw data.
    - Aggregate customer data to generate features like total spending, frequency of logins, and support ticket counts.
  - **Modeling:** Machine learning model for churn prediction.
    - Libraries: scikit-learn, TensorFlow, or PyTorch.
    - Model Deployment: MLflow or FastAPI.
  - **Visualization:** Real-time dashboards for insights.
    - Tableau, Power BI, or Plotly Dash.

- Real-time sales analytics platform
  - **Business Problem:**
    - An e-commerce company wants to:
    - Analyse sales trends.
    - Identify top customers and products.
    - Monitor inventory levels.
    - Visualize regional sales performance.
  - **Technologies:**
    - Database: PostgreSQL or MySQL.
    - ETL Tool: Python (with Pandas and SQLAlchemy)
    - Visualization: Tableau, Power BI, or Matplotlib/Seaborn.
    - Cloud (Optional): GCP BigQuery or AWS Redshift for scalability.