Nikhil Garbhana

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SUMMARY

Data Engineer with over 5 years of experience specializing in Python-based development, data visualization, and Jupyter platform customization. Expert in building scalable Python solutions for data analysis, visualization, and automation. Proven track record of leading cross-functional teams to solve complex challenges, enhancing developer productivity, and delivering end-to-end technical solutions. Adept at creating Python-powered APIs, optimizing workflows, and integrating advanced visualization frameworks.

SKILLS

- **Programming Languages:** Python (Advanced), SQL, PySpark
- **Visualization Libraries:** Plotly, Matplotlib, Seaborn, Tableau
- **Platforms & Tools:** Jupyter, Flask, FastAPI, Selenium
- **Cloud & Storage**: AWS S3, GCP BigQuery, Snowflake
- **Project Management:** Requirement Analysis, Stakeholder Coordination, Technical Documentation
- **Soft Skills:** Team Leadership, Critical Thinking, Problem Resolution, Agile Methodologies

EXPERIENCE

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

- Spearheaded the design and maintenance of data visualization components, ensuring user-friendly interfaces for data analysis.
- Designed and implemented scalable data pipelines based on python, reducing processing time by 60%.
- Built an web application with Python-Flask for real time, visualization and to perform ETL operations.
- Automated complex workflows, including data processing and visualization, leading to a 40% improvement in productivity.

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

- Built Python-based data visualization tools to improve financial forecasting and strategic planning, reducing errors by 45%
- Developed custom visualization dashboards using Matplotlib and Seaborn for real-time financial analysis.
- Automated reporting processes using Python scripts, reducing manual effort by 60%.

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.