8197723170 suprithvasista829@gmail.com

LinkedIn

Portfolio

Senior Data Engineer with over 3 years of experience designing and scaling robust data pipelines, modernizing data warehouses, and implementing secure data governance frameworks. Skilled in building distributed systems using **Python** and **Scala**, and proficient in data engineering tools and platforms including **Snowflake**, **Google Cloud Platform(GCP)**, **Cloudera Data Platform (CDP)**, and **Kafka**. Proven track record in developing multitenant, high-scale solutions for real-time and batch processing across diverse data sources. Strong understanding of **RESTful API** design, and hands-on experience with databases like **OracleSQL**, **PostgreSQL** and **HBase**. Experienced in collaborating with cross-functional teams to deliver scalable, customer-facing analytics solutions that support real-time and historical data analysis. Passionate about leveraging data to drive smarter strategies and business outcomes

## **EXPERIENCE**

# MBB Labs Private Ltd Senior Data Engineer Universal Data Lake

Bengaluru, India June 2022 – Present

- Optimized distributed data processing engines using PySpark by enhancing incremental load and Slowly Changing Dimensions (SCD) utilities, improving historical data accuracy and reducing SLA execution time by 45%
- Migrated legacy Oracle procedures to a scalable, Spark-based Data Quality (DQ) framework, significantly accelerating real-time data validation and cutting job execution time by over 92%, as part of a broader data governance initiative
- **Built and maintained robust ETL/ELT pipelines** to support large-scale data integration and migration between **Snowflake** and the **Universal Data Lake**, enabling cross-platform data accessibility and consistency
- Led the performance tuning and optimization of high-volume data pipelines, achieving a 30% reduction in runtime through effective troubleshooting and scalability improvements
- Lead the **migration to Cloudera Data Platform (CDP)** from on-prem infrastructure, ensuring minimal downtime and improved operational scalability for future growth.
- Communicated effectively with product engineers and cross-functional teams to deliver a backend reconciliation framework aligned with customer requirements
- Developed **automated SSH configurations using shell scripting**, streamlining secure server connectivity processes and reducing setup overhead for engineering teams by 95%

#### **Profitability Management**

- **Designed and optimized high-throughput database solutions** in Oracle, processing over 100 million records in under 2 minutes, significantly improving system performance and reliability at scale
- Engineered a scalable data delivery mechanism using SPOOL, managing up to 300 million records across 34 files within 40 minutes, ensuring timely and accurate data availability
- Implemented CI/CD pipelines with Jenkins, automating deployment workflows and minimizing production downtime
- Developed a **secure password encryption framework** leveraging symmetric cryptography to safeguard sensitive application credentials and align with security best practices

#### **Net Zero Carbon Cities**

- Analyzed business requirements and built scalable ODI pipelines with configuration-driven logic, enabling reusable and future-ready data solutions for cross-country rollouts
- Built SQL queries and integrated reporting logic into configuration modules, ensuring automated, seamless generation of carbon compliance reports across regions like Malaysia, Singapore and 11 Overseas Countries

#### **Basel Committee on Banking Stabilization**

- **Designed and deployed data integration pipelines** using Oracle Data Integrator (ODI) to consolidate multi-source data and generate 14 regulatory reports, supporting business compliance initiatives
- Used **Infogram** for building **custom data visualizations**, enhancing decision-making with interactive reporting dashboards

- **Automated critical workflows** for software installer preparation and reconciliation using Python, reducing manual effort by over **80%** and increasing operational efficiency
- Developed a **proof-of-concept ODI integration**, streamlining metadata extraction workflows and optimizing internal data handling and reporting processes

### **TECHNICAL SKIILLS**

- Programming Languages: Python, Scala, SQL, PL/SQL, HQL, Shell Scripting
- **Big Data & Cloud Platforms:** Apache Spark (PySpark), Hadoop, Hive, **Snowflake**, Cloudera Data Platform (CDP), Google Cloud Platform (GCP), Google BigQuery, Oracle Big Data Appliance, Azure, Databricks, Teradata, Data Lake, Data Warehousing, Data Modeling
- Databases & Storage: Oracle Database, MongoDB, PostgreSQL, NoSQL
- **Data Integration & Workflow:** Apache **Kafka**, Apache **Zookeeper**, Apache Oozie, Oracle Data Integrator (ODI)
- DevOps & Automation: Jenkins, CI/CD Pipelines, Shell Scripting, Kubernetes
- APIs & Data Access: REST API design and integration
- Security & Governance: Key Management Systems (KMS), Data Governance, Encryption Standards

#### **EDUCATION**

• BE in Computer Science and Engineering AUG-2022 from VTU

#### **PROJECTS**

Portfolio Generator and Enhancer

Developed and deployed a web application on Streamlit Cloud that generates user portfolios based on the **Flutter** framework with a single button click. Integrated a custom **CI/CD** pipeline for deployment on **Vercel** and added **Gemini** for dynamic project section rewriting. Utilized **Google Big Query API** for seamless data updates.

• Recursive Job Matching

Developed and deployed a web application on Streamlit Cloud that delivers customized resume feedback by leveraging data from job portals and the **Google Gemini Pro API** for enhanced job alignment

• Data Consolidation Utility

Developed and deployed a data consolidation utility in Python to the **PyPI community** 

• Custom File Loader Widget

Created a custom Streamlit file uploader widget that delivers upload paths for metadata-focused use cases, contributing it to the **Streamlit community** for enhanced functionality

### TRAINING AND CERTIFICATION

Machine Learning with Python from E & ICT Academy, Indian Institute of Technology (IIT) Kanpur

#### **ACHIVEMENTS**

- Earned membership in the prestigious **Google Cloud Innovator Club** by excelling in a competitive Google **hackathon** focused on **Generative AI**, demonstrating innovative problem-solving and technical expertise
- Top Candidate in the LLM Agents Hackathon, organized by UC Berkeley RDI in collaboration with the LLM Agents MOOC
- Recognized as Star Performer in multiple sprints for exceptional contributions
- Awarded "Most Dependable Developer" for consistently delivering reliable, high-performance data solutions across multiple sprints