SHUBHAM SUNIL HINGU

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EDUCATION

University of Texas at Arlington, Arlington, Texas   August 2023 - May 2025
Master's in Computer Science   GPA: 4.0/4.0
Courses: Data Analysis & Modeling Techniques, Design & Analysis of Algorithms, DBMS Model & Implementation Techniques, Data Mining, Machine Learning, Software Engineering, Web Data Management, Cloud Computing & Big Data.

Universal College of Engineering, Mumbai University, Mumbai, India   August 2017 - July 2021
Bachelor's of Engineering in Computer Engineering   GPA: 3.76/4.0

WORK EXPERIENCE

Accenture   July 2021 - July 2023
Application Development Analyst

- Designed and implemented optimized PL/SQL stored procedures and functions for database upgrades, reducing manual intervention and improving system reliability by up to 80%.
- Tuned complex SQL and PL/SQL queries, including the use of window functions, common table expressions (CTEs), and index-based optimization, to efficiently process client requests on CRM databases, enhancing customer experience for a major telecom client in the UK and Ireland.
- Managed and maintained critical PL/SQL subsystems, continuously enhancing their performance, scalability, and data processing accuracy.
- Developed and maintained a data pipeline to process client request logs and service data using PL/SQL procedures, integrating the output into business-facing dashboards that improved client resolution tracking and trend analysis.
- Accountable for handling high-priority client issues, performing data corrections and integrity checks to reduce escalations and maintain seamless service delivery.
- Led proactive data quality initiatives, identifying and resolving real-time data inconsistencies in production to unblock client operations and ensure long-term integrity across customer accounts.

The Sparks Foundation   October 2020 – November 2020
Data Analyst Intern

- Conducted dataset pre-processing using Python libraries like Seaborn and Matplotlib, ensuring data integrity and enabling data-driven business decisions through insightful visualizations.
- Developed a data analysis tool using Python's NumPy, Matplotlib, and Seaborn to identify biases, handle missing values, and generate insightful visualizations. This tool enabled SDMs, customers, and PMs to make more informed business decisions based on data-driven insights.

PROJECTS

MEDIC: Smart Healthcare AI Assistant | Android Studio, TensorFlow Lite, Natural Language Processing

- Built a comprehensive Android application using Android Studio that integrates a TensorFlow Lite-based image classification model to identify medicines from images and retrieve essential details such as adverse reactions and dosage guidelines for both adults and children.
- Developed an integrated chatbot within the app to interpret user-reported symptoms, predict basic illnesses, and suggest suitable medications and dosages, enhancing healthcare accessibility and real-time decision-making.

Automated Weather Intelligence Pipeline with Interactive Dashboards | AWS Lambda, RDS (PostgreSQL), S3, SQL, Python, Dash, Plotly, OpenWeather API

- Engineered a serverless data pipeline using AWS Lambda to extract daily weather data from the OpenWeather API, transform and clean the data in Python, and load it into a PostgreSQL database hosted on Amazon RDS.
- Integrated AWS S3 for intermediate data staging and ensured high availability and scalability of the pipeline using AWS-native tools and IAM-based access controls.
- Developed an interactive web dashboard using Dash and Plotly to visualize temperature, humidity, and weather conditions with real-time filters for time range and location—offering a Power BI–like user experience.
- Leveraged SQL for querying historical weather patterns and analytics; followed best practices in data modeling, validation, and automated ETL orchestration on the cloud.

SKILLS

- **Languages:** SQL, NoSQL, Python (NumPy, Seaborn, Matplotlib, TensorFlow, PyTorch), R, C, Java, Oracle PL/SQL, Scala, HiveQL, SparkSQL, DDL, MDX, KornShell.
- **Software:** Excel, Word, PowerPoint, MS Project, MS Outlook, Android Studio, Oracle PL/SQL Developer, Jira, Microsoft Power BI, Tableau, Confluence, Keras, Scikit-learn.
- **Relevant Skills:** Data Engineering, Data Modeling, Warehousing, ETL Pipelines, Version Control, Machine Learning, Data Visualization, Data Mining, Cloud Computing, Business Acumen, Problem Solving, Statistics, DBMS.
- **Big Data & ETL:** Apache Spark, Hadoop, Hive, EMR, Informatica, ODI, SSIS, BODI, Datastage, SnowFlake.