

Snehalatha Tuniki

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SKILLS

Python, Java, Bash shell scripting, MSSQL, Oracle, SQLite, Teradata, Snowflake, SingleStore, ETL, Data Warehousing, Big Data, Machine Learning, NLP, Data Analysis, Airflow, Autosys, Fast API, Apache Kafka, HTML, CSS, JavaScript, Bootstrap.

WORK EXPERIENCE

EZOFIS, Toronto, Canada

May 2024 – August 2024

AI Intern

- Led end-to-end development of a Random Forest classifier for client demo, encompassing data preprocessing, feature engineering, model building, and deployment using Streamlit and FastAPI.
- Conducted POC for SingleStore implementation, integrating Azure pipelines and evaluating ML model performance across platforms.
- Engineered secure import/export functionality with dynamic table definition generation, encryption, and decryption processes, streamlining data transfer across systems.
- Boosted Ticketing system performance by 30% through query and table structure optimizations.
- Streamlined a unified view across 15 databases, implementing advanced indexing and partitioning strategies to enhance multi-database search efficiency.
- Developed python scripts to identify modified columns in history tables and retrieved changes as JSON objects.

Tata Consultancy Services (Apple Inc.), Hyderabad, India

July 2020 – November 2022

Data Engineer

- Gained proficiency in Data Analytics by employing complex SQL queries and procedures. Increased data processing speed by 30% by optimizing SQL queries.
- Developed Bash shell scripts for extracting metadata, conducting business validations, and triggering PL/SQL stored procedures to populate database tables. Created test cases and test suites to enable test-driven development.
- Independently did the bidirectional data transfer between Teradata, Snowflake, and Oracle, leveraging AWS as the intermediary. Established and maintained disaster recovery pipelines from one Teradata system to another using Kafka, ensuring data synchronization.
- Successfully migrated from on-premises infrastructure to AWS + Snowflake Cloud Data Platform. Utilized Apache Airflow for seamless connection to Snowflake and implemented Snowflake's data processing layer with Python.
- Demonstrated expertise in the entire software development lifecycle, encompassing requirement analysis, data pipeline design, coding, various testing phases, and deployment.

MAQ Software, Hyderabad, India

August 2019 - December 2019

Data Analyst Intern

- Worked on live projects based on Business Intelligence involving technologies like T-SQL, Power BI, and Git.

EDUCATION

Ontario College Graduate Certificate in Artificial Intelligence and Data Science

January 2023 – August 2024 (expected)

Loyalist College, Ontario, Canada

GPA: 3.4/4.0

B. Tech Computer Science

August 2016 – May 2020

CVR College of Engineering, Telangana, India

CGPA: 9.75/10.00

PROJECTS

Sentiment Analysis of Geospatial Data regarding usage of Renewable Energy

Performed sentiment analysis on COP28-related tweets to evaluate worldwide opinions on renewable energy utilization. Utilized Snsrape for gathering data, SQLite for data management, Linear SVM for classification with an accuracy of 89%, Figma for designing the dashboard layout and Streamlit for visualization through dashboards.

Hospitality Performance Analysis & Optimization

Utilized Power BI to analyze prominent hospitality firms' historical data to gain insights into revenue trends and operational inefficiencies. It involved detailed trend analysis by day/week/month, identifying critical loss points, and recommending actionable strategies to bolster business performance.

CERTIFICATIONS

- Querying Microsoft SQL Server (70-461)
- Infosys Certified Software Programmer

ACHIEVEMENTS

- **Performance Excellence Award**, TCS - Apple, 2022: Awarded for successfully migrating 70% of our application from Teradata to Snowflake.
- **Special Achievement Award**, TCS - Apple, 2021: Awarded for implementing a Disaster Recovery pipeline utilizing Kafka for a substantial table by overcoming size limitations.