ABHISHEK KARKOLA

Contact Details

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Professional Summary

- Experienced Data Automation Engineer with a proven track record at **Legal and General Group Data Finance team**. Passionate about driving business value through data-driven strategies, improving system performance, and fostering team development.
- Proficient in data warehousing with Snowflake and SQL Server, as well as data integration using Wherescape.
- Skilled in SQL and Python for programming and scripting, and experienced with version control and CI/CD through GitHub Actions.
- Familiar with cloud platforms and services like AWS S3, EC2, and RDS.
- Strong ability to understand and adapt to business needs, ensuring effective and efficient data solutions.
- Committed to delivering high-quality results and continuous improvement in dynamic environments.

Education

- Master of Science in Gravitational Wave Physics, Cardiff University, Cardiff (2021 - 2022)
- Bachelor of Engineering in Electronics and Communication, PES University, Bangalore, INDIA (2016-2020)

Experience

Legal and General, Cardiff, UK
Data Automation Engineer
September 2023 - Present

- Developed and implemented **ETL pipelines** on **Snowflake and Wherescape**.
- Experienced in **Data Quality, Data Profiling and Data Integration tools.**
- Designed **data governance frameworks, including data masking and retention policies**, ensuring sensitive data protection and regulatory compliance.
- Delivered robust data solutions, including Snowflake RBAC models and automated key Snowflake tasks like database creation, role/user management and alerting.

- Experienced in **documenting test plans, writing test cases, automation and bug reporting**.
- Experienced with **SQL Server** to extract and transform data.
- Used **Python** to automate data validation tasks.
- Worked on building an independent **testing framework** to perform **regression testing**, **functional testing** across all databases in Python
- Basic Experience in writing **Powershell scripts**.
- Managed **AWS S3, EC2, and RDS instances**.
- Worked on **automating the deployment process in Python** specific to the business requirements.
- Experience in **requirement gathering**.
- Experience with **Agile and Waterfall methodologies**.

Cardiff University, Research Intern

November 2022 - April 2023

- Worked on Machine Learning Techniques to extract gravitational wave signals.

Teaching Assistant at Cardiff University
Jan 2022 – May 2022

Job: Taught Computational Physics using Python for Physics Undergrad students

- To give instruction on and provide practice in the use of computers to develop basic data handling skills required by physics scientists (e.g., graphing and data analysis skills).
- To develop the basic numerical computing skills required by physics scientists.
- To develop proficiency in problem-solving by working through a series of examples which relate to the experimental and taught physics modules.

Apprenticeship at Indian Space Research Organisation (ISRO)
Jan 2019 – Jul 2019

Project: Garbage volume estimation using multi-view photos

- Implemented **segmentation algorithm with 72% accuracy**, to draw **bounding box** and blur out the background.
- Implemented scripts to scrape images for the data set from google images.
- Deployed the trained model and provided a documented API endpoint.

Skills

Data Warehousing: Snowflake, SQL Server

Data Integration and ETL tools: Wherescape, Snowflake

Programming and Scripting: Python, SQL, PySpark

Version Control and CI/CD: Github Actions

Cloud Platforms and Services: AWS S3, EC2, RDS