Tharindu Abeysinghe

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PROFESSIONAL SUMMARY

Highly disciplined and curious data expert with extensive experience in business data analysis across multiple platforms. Proficient in data wrangling, analysis, and visualization. Completed numerous projects from proof of concept to implementation. Creative thinker and problem solver; enthusiastic learner of new technologies.

TECHNICAL SKILLS AND EXPERTISE

SQL, Python, ETL, Google BigQuery, Microsoft SQL Server, Microsoft Excel, PowerBI, Tableau, GitHub, CI/CD, Agile Method, Microsoft Office Package, Statistical Analysis

WORK EXPERIENCE

Senior Data Analyst (Full-Time)   Nov 2023 – Feb 2025
Federal Reserve Bank of St. Louis, St. Louis, Missouri
- Imported data from multiple data sources (SSRS, Oracle, and Excel sheets) and created a related input data set using SQL and Python to calculate the complexity of reports submitted by financial institutions
- Imported banking data from SQL Server and SharePoint, and visualized data in a PowerBI dashboard. Self-taught basic accounting concepts and selected suitable metrics to visualize banking conditions
- Communicated with stakeholders, broke down problems into separate steps, and developed new Python scripts to automate data quality checks of the reports submitted by banks (Pandas, Numpy, and datetime)
- Troubleshot/ modified Microsoft Excel report analytics tools written in VBA and SQL and saved 20 staff hours quarterly

Business Intelligence Developer (Contractor/ Full-Time)   July 2021 – Feb 2023
Equifax Workforce Solutions, St. Louis, Missouri
- Imported data from external databases (Aha and Jira) using a Python API Pipeline and Cronjobs in Compute Engine into Google Cloud BigQuery tables (Extract, Transform, Load)
- Performed data wrangling using Google BigQuery SQL and Python, created purpose views according to the needs of stakeholders, and deployed to the production environment
- Explored time series financial data, completed Proof of Concept (POC), and built Minimum Viable Product (MVP) for an expense predictions and monitoring system using Tableau Server
- Developed tools in an Agile environment and delivered products on schedule. Partnered with the Product Owner to plan sprints. Reduced testing time by creating clear, detailed documentation
- Wrote/updated technical documentation to propagate knowledge efficiently to new members
- Performed real-time transaction monitoring and reporting to avoid loss of revenue

Data Scientist / Analyst (Freelance)   Dec 2018 – July 2021
SPLIT Remote Sensing, Bowling Green, Ohio
- Performed exploratory data analysis of water quality reflectance measurements using Python libraries and Microsoft Excel
- Performed regression modeling between water quality parameters and satellite data with machine learning techniques using Python (Matplotlib, Scikit-learn, Pandas, and Numpy)
- Explored and selected features to predict water quality distribution using multiple statistical methods

Graduate Research/Teaching Assistant   Jan 2017 – Dec 2018
Bowling Green State University, Bowling Green, Ohio
- Collected reflectance and UAV data in row crops (corn fields), processed images, and performed exploratory data analysis and regression analysis of vegetation and water quality data
- Conducted labs in Statistics and data analysis with Microsoft Excel applications (Regression, Pivot Tables, Charting), ArcGIS, and ENVI Systems for Undergraduate students
- Conducted an introductory field data collection and analysis workshop for students in Huron High School, Ohio (sponsored by USGS and AmericaView)

Geologist   **May 2015 – Dec 2016**
MRL Graphite (Pvt) Ltd., Sri Lanka
- Collected field data of existing graphite mines and created database tables using MySQL and Microsoft Excel (used Pivot Tables, Macros, VLOOKUP, and Formulas)
- Developed MySQL queries to join tables, group, and filter data, and created views using MySQL Workbench
- Extracted data from MySQL database tables into CSV files and created graphite prospecting area maps using ArcGIS to recommend sites to open new graphite mines

EDUCATION
- Master of Science in Geology   Bowling Green State University, Bowling Green, Ohio
- Bachelor of Science in Geology   University of Peradeniya, Sri Lanka

PUBLICATION
- Abeysinghe, T., Simic Milas, A., Arend, K., Hohman, B., Reil, P., Gregory, A., Vázquez-Ortega, A. (2019). Mapping Invasive *Phragmites australis* in the Old Woman Creek Estuary Using UAV Remote Sensing and Machine Learning Classifiers. *Remote Sensing. 11*, 1380. https://www.mdpi.com/2072-4292/11/11/1380