WASEEK LAREEF

BSC (HONS) IN INFORMATION TECHNOLOGY SPECIALIZING IN DATA SCIENCE

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SUMMARY

Recent graduate with hands-on experience in Python, SQL, data analysis, and automation. Skilled in data visualization, handling large datasets, and developing scripts to streamline workflows. A strong problem-solver with a passion for supporting data platforms in fast-paced environments. Quick learner and collaborative team player, committed to continuous improvement and exploring cloud technologies.

PROFESSIONAL EXPERIENCE

Data Analyst (Commercial Bank PLC) **Jun 2024 - March 2025**

- Designed and developed interactive dashboards using Tableau, Power BI, and Looker Studio to analyze and visualize financial data effectively.
- Contributed to the development of a Retrieval-Augmented Generation (RAG) system.
- Applied Python development skills for automation, and system optimization tasks.
- Utilized SQL with ODBC connections to extract, transform, and load (ETL) data from various sources for reporting and analysis.
- Gained hands-on experience in data preprocessing, trend analysis, and performance tracking to support business intelligence initiatives.

EDUCATION

BSc (Hons) in Information Technology Specializing in Data Science **Jun 2021 - Sep 2025**
Sri Lanka Institute of Information Technology.

GCE Advance Level (Physical Science) **2018 - 2020**
Ranabima Royal College

SKILLS & TECHNOLOGIES

Programming & Frameworks

- Python (Pandas, NumPy, SciPy, scikit-learn, PyTorch, TensorFlow), R , Java, JavaScript (Node.js, React.js), PHP, C, C++, Streamlit, Jupyter Notebook

Data Engineering & Cloud

- Databricks , Apache Spark, Airflow , Hadoop MapReduce, ETL/ELT Pipelines, Data Warehousing (SQL, SSIS), Docker, AWS, Azure, PostgreSQL, MongoDB, MySQL

Machine Learning & AI

- Supervised & Unsupervised Learning, Deep Learning, Natural Language Processing (NLP), Model Evaluation , Computer Vision , Statistical Modeling

Data Analytics & Visualization

- Exploratory Data Analysis (EDA), Tableau, Power BI, Looker Studio, Data Preprocessing & Feature Engineering

Mathematics & Statistics

- Probability, Hypothesis Testing, Regression & Classification Algorithms (SVM, Random Forest, Decision Tree, Linear Regression)

Software Development & Tools

- Git/GitHub, RESTful APIs, Workflow Orchestration, Full-Stack Development (MERN), Team Collaboration, Agile Practices

PROJECTS

Retail Sales Data Platform (Personal Project)

- Built an end-to-end data platform with real-time + batch ETL pipelines, applying partitioning and incremental loads for analytics-ready marts.
- Deployed in a Dockerized environment with workflow orchestration (Airflow) to support scalable ETL pipelines. ***Github***
- Tools: Kafka, Spark, Airflow, dbt, BigQuery, PostgreSQL, Docker

Explainable AI Decision Support for NSCLC (Research Project)

- Developed an AI system integrating multi-omics data, improving tumor detection, TNM classification, and recurrence prediction.
- Applied Vision Transformers, Cox Regression, and XAI techniques for transparency and clinical trust. ***Github***
- Tools: Python, TensorFlow, PyTorch

Data Warehousing with SQL & SSIS

- Consolidated multi-source data into a centralized warehouse using SQL Server & SSIS packages.
- Enabled streamlined reporting and advanced analytics for business intelligence.
- Tools: SQL Server, SSIS, Visual Studio

AirGuard – IoT-Based Air Quality Monitoring

- Designed a real-time IoT data pipeline using ESP32 sensors to collect and stream time-series air quality data, which triggered automated safety actions via relays.
- Integrated Firebase & MongoDB, visualized insights in Power BI, and applied Prophet for forecasting. ***Github***
- Tools: ESP32, Node-RED, Firebase, MongoDB, Power BI, Prophet, Hadoop MapReduce

CO_2 Emission Prediction App

- Built a predictive ML app to estimate vehicle CO_2 emissions using multiple regression and classification algorithms.
- Designed an interactive UI with Streamlit for user-friendly analysis and reporting. ***Github***
- Tools: Python, scikit-learn, Streamlit, Jupyter Notebook

Chatbot for Retail Shop

- Implemented an NLP-based chatbot to automate customer inquiries and enhance service efficiency.
- Trained using machine learning models for intent recognition and response generation. ***Github***
- Tools: Python, NLP, scikit-learn

ACCOMPLISHMENTS

- Supervised Machine Learning: Regression Classification - DeepLearning.Ai ***View Certificate***
- Data Analysis with Python IBM - Coursera ***View Certificate***
- Data Analysis with python - freeCodeCamp ***View Certificate***
- Introduction to Big Data - UC San Diego ***View Certificate***
- Power BI - Simplelearn ***View Certificate***
- SQL(Basic) - Hackerank