Kasun Perumbuli Mudalige

Data Scientist

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SUMMARY

Data Scientist with a solid foundation in machine learning, statistical analysis, and data visualization. Skilled in Python, SQL, and tools like TensorFlow and scikit-learn for model building, data preprocessing, and analysis. Aiming to leverage data science expertise to drive business insights and further career growth in the field.

TECHNICAL SKILLS

Tools & Technologies
Python •SQL • TensorFlow • scikit-learn • Pandas • NumPy • Jupyter Notebooks • Matplotlib • Tableau • Power BI • Git

Processes
Machine Learning • Data Preprocessing • Feature Engineering • Statistical Analysis • Predictive Modeling • Data Visualization • Model Evaluation • Data Cleaning • ETL Processes • A/B Testing

Soft Skills
Problem Solving • Communication • Analytical Thinking • Collaboration • Time Management • Adaptability • Critical Thinking • Detail-Oriented

TRAINING & CERTIFICATIONS

- Master Certificates from Simplilearn in Data Science (Training)
- AWS Certified Machine Learning – Specialty (Feb 2025)
- Python for Data Science IBM (Oct 2023)
- Applied Data Science with Python (Training)
- Deep Learning (Training)
- SQL for Data Science (Training)
- Machine Learning (Training)
- Tableau (Training)
- Artificial Intelligence Foundations: Neural Networks- LinkedIn (Training)
- SQL for Data Analysis – LinkedIn (Training)
- Python for Data Science and Machine Learning – Udemy (Training)
- Complete SQL bootcamp (PostgreSQL) – Udemy (Training)
- Analyze Open data sets with Python – IBM (Training)

EXPERIENCE

Data Scientist (Trainee – Hybrid) **Oct 2025 – Present**
Fortray Global Services Limited | UK

- Transformed and integrated large datasets using SQL, Python (Pandas), and Excel, improving data quality and ensuring seamless analysis.
- Built and optimized high-performance ETL pipelines, automating data workflows and reducing manual processing time by 30%.
- Developed complex SQL queries for fast and efficient data extraction, significantly improving reporting speed and data accuracy.
- Utilized advanced Excel functions (pivot tables, VLOOKUP, conditional formatting) to uncover actionable insights that influenced key business decisions.
- Designed and deployed interactive dashboards and data visualizations in Tableau and PowerBI, empowering stakeholders to make informed, data-driven decisions.
- Ensured data integrity and optimized database performance through effective management, indexing, and regular updates to SQL databases.

Sourcing Senior Engineer **Oct 2021 – Sep 2022**
Michelin | Sri Lanka

- Analyzed purchasing data for 500 vendors and 200,000+ engineering materials using Python visualization tools, uncovering cost-saving opportunities.
- Developed and maintained a comprehensive engineering materials database, streamlining product selection, improving quality, and ensuring accurate specification matching.
- Collaborated with the plant engineering team to transfer technical engineering requirements into actionable supply chain business profiles.

Process Engineer **Jun 2019 – Oct 2021**
Michelin | Sri Lanka

- Collected, cleaned, and pre-processed raw data to analyze and visualize machine performance, driving process improvements.
- Developed a machine learning model to accurately assess sand mold quality, enhancing product consistency and reducing defects.
- Evaluated production line performance by analyzing machine receiving data, identifying areas for optimization and efficiency gains.

PROJECTS

UAV Propeller Performance Analysis
Objective: Developed a framework to predict UAV propeller performance.

- **Tools & Technology:** Python, XGBoost, SQL, Tableau
- **Process:** Analyzed propeller geometry and UAV performance, engineered features, and built predictive models.
- **Result/Impact:** Improved propeller design and operational efficiency, with a Tableau dashboard to track key metrics.

Mercedes-Benz Test Bench Optimization
Objective: Reduced car test bench time while maintaining quality standards.

- **Tools & Technology:** Python, XGBoost, Dimensionality Reduction
- **Process:** Conducted data preprocessing, feature engineering, and built a predictive model using XGBoost.
- **Result/Impact:** Decreased test bench time, improving production efficiency.

Sentiment Analysis on FIFA World Cup 2022 Tweets
Objective: Analyzed public sentiment from Twitter about the FIFA World Cup 2022.

- **Tools & Technology:** Python, NLP, Twitter API
- **Process:** Collected and preprocessed tweets, applied NLP techniques for sentiment classification.
- **Result/Impact:** Provided insights into fan sentiment, aiding marketing strategies during the event.

EDUCATION

University of the West of England
Master's degree in Data Science | England, UK *Sep 2022 – Sep 2023*

University of Peradeniya
Bachelor's in Manufacturing Engineering | Peradeniya, Sri Lanka *Jan 2011 – Nov 2016*

REFERENCE

It will be available on request.