

NISHAKA JAYALATH

Aspiring Data Scientist & Analyst

Matara, Sri Lanka | nishakamahesh2020@gmail.com | +94 76 942 7719
www.linkedin.com/in/nishaka-mahesh/ | uhdnmjayalath.github.io/my-portfolio/

PROFESSIONAL SUMMARY

Recent BSc graduate with a combined academic foundation in Computer Science, Statistics, and Mathematics, supported by hands on experience in data analysis, dashboard development, machine learning projects, and business focused software solutions. Completed an Industrial Engineering Intern at Ansell, applying Power BI, Excel based performance tracking, capacity analysis, and operational data interpretation in a manufacturing environment. Currently pursuing an Msc in Data Science and Artificial Intelligence at the University of Peradeniya. Brings working knowledge of Java, Python, SQL, Power BI, React.js, and Spring Boot, with practical exposure to dashboard design, REST based application development, RAG powered document chatbots, computer vision solutions, and process improvement initiatives. Seeking an opportunity in Data Analysis, Data Science, Business Intelligence, or Software Engineering where analytical thinking and technical versatility can add value.

PROFESSIONAL EXPERIENCE

Industrial Engineering Intern Ansell Textiles Lanka, Seeduwa

Jan 2026 – June 2026

- Conduct comprehensive capacity analysis to evaluate production capabilities and support more efficient manufacturing planning decisions.
- Designed and maintain an individual efficiency tracking system in Power BI, performing monthly data updates to support operator development and real time performance monitoring.
- Analyze changeover data to identify bottlenecks and develop real time tracking approaches that help reduce machine downtime, and calculate line wise PPH (Pieces Per Hour) to monitor production velocity.
- Designed and maintained employee skill matrices to support strategic workforce allocation and line flexibility.
- Maintain and update Standard Minute Value (SMV) databases in Advanced Excel to improve capacity forecasting accuracy and production planning visibility.
- Integrated Power BI, Excel, and Power Automate workflows to build automated, data driven tracking and reporting solutions for manufacturing performance.

EDUCATION

- **MSc in Data Science and Artificial Intelligence (Reading)** 2026 – Present
Postgraduate Institute of Science (PGIS), University of Peradeniya
- **BSc in Computer Science, Statistics, and Mathematics** 2022-2025
Faculty of Science, University of Peradeniya

CORE COMPETENCIES & SKILLS

- **Data Analysis & BI** - Power BI, DAX, dashboard development, data modeling, KPI reporting, drill down analysis, dynamic filters, operational reporting, and business insights generation.
- **Programming & Data Science** - Python, Java, SQL, R, JavaScript, Pandas, Scikit learn, machine learning fundamentals, data preprocessing, and model based problem solving.
- **Software Engineering** - Spring Boot, React.js, REST APIs, HTML, CSS, MySQL, Postman, Git, OOP, SDLC, and practical application development across academic and personal projects.
- **Analytics in Operations** - capacity analysis, efficiency tracking, changeover analysis, SMV database maintenance, manufacturing data interpretation, and performance improvement support.
- **Tools & Platforms** - IntelliJ IDEA, VS Code, GitHub, Power BI, Postman, and portfolio based project presentation.
- **Professional Skills** - teamwork, problem solving, communication, time management, leadership, adaptability, and continuous learning.

SELECTED PROJECTS

- Stock Trend Prediction Dashboard** **2026**
Python, Flask, TensorFlow/Keras, Scikit-learn
- Built a full-stack stock analysis dashboard integrating deep learning, machine learning, and technical indicators to predict market trends and support data-driven investment insights.
- Sales Performance Dashboard** **2025**
Power BI, DAX
- Developed an interactive dashboard to analyze sales trends, order patterns, and regional performance using data modeling, DAX measures, and drill down features for improved business insight.
- Meta Ad Performance Dashboard** **2025**
Power BI, DAX
- Built a marketing performance dashboard to analyze funnel metrics from impressions to purchases, using a star schema and dynamic KPI calculations such as ROAS and conversion rate.
- LumiDoc AI - Chat with PDF** **2025**
Python, Streamlit, LangChain, FAISS
- Developed an intelligent RAG based chatbot that answers questions from multiple PDF documents, strengthening skills in retrieval workflows and user focused AI applications.
- Vehicle Speed Detection System** **2025**
Python, OpenCV, YOLOv8, Pandas
- Created a real time computer vision solution to detect vehicles and estimate speed from video footage using object detection and custom tracking logic.
- Hostel Management System** **2025**
Java Spring Boot, MySQL
- Contributed to a system that automated hostel operations including room allocation, student eligibility filtering, fee handling, and complaint tracking for university use.

Sentiment Analysis Web Application

2025

Flask, Machine Learning

- Built a web based sentiment analysis application using a trained logistic regression model to classify user comments and reviews.

Arduino CNC Plotter

2024

Arduino Uno, C++, Robotics

- Developed a low cost automated CNC plotter for lettering and artistic drawing, focusing on hardware software integration and accessibility for educational use.

CERTIFICATIONS

- Python Project for Data Science - IBM (Coursera), 2026.
- Python for Data Science, AI & Development - IBM (Coursera), 2026.
- Data Science Methodology - IBM (Coursera), 2026.
- Tools for Data Science - IBM (Coursera), 2026.
- What is Data Science? - IBM (Coursera), 2026.
- Career Essentials in Data Analysis - Microsoft & LinkedIn Learning, 2026.
- Career Essentials in Generative AI - Microsoft & LinkedIn Learning, 2026.
- Introductory Computer Programming (Python) - University of Peradeniya.

EXTRACURRICULAR ACTIVITIES

- Member - University Karate Team, University of Peradeniya.
- Member - Computer Society, University of Peradeniya.
- Member - Data Science Society, University of Peradeniya.
- Member - Statistics Circle, University of Peradeniya.

LANGUAGES

- English - Professional Proficiency
- Sinhala - Native