NAVINDU BALASOORIYA

Data Scientist & AI Engineer

Kottawa-Srilanka, 10230 · (+94) 768-854-960 · navindukb@gmail.com · Linkedin

PROFILE

Graduated with Second Class Honours in Artificial Intelligence and Data Science from Robert Gordon University. Skilled in software development, AI, and data science, with strong analytical and technical abilities, Committed to staying updated on IT industry trends.

WORK EXPERIENCE

Baker Tilly Edirisinghe & Co.   **2024 - Present**
IT Intern | Software Engineering & AI

- Developed AI agents using both coding-based and no-code approaches for marketing and content creation.
- Designed and built applications to resolve business conflicts and analyze audit processes.
- Utilized Alteryx for data preparation, analysis, and business intelligence, enhancing decision-making efficiency.

Technology Stack: Python, Alteryx, SQL, Power Apps, Power Automate, OpenAI

Mobitel(Pvt) Ltd   **2022 - 2023**
Intern Big Data & Data Science

- Developed and enhanced data processing pipelines, focusing on data analytics and integration tasks in the telecommunications domain.
- Applied machine learning techniques to extract insights from large datasets, contributing to decision-making processes.
- Collaborated with senior engineers to implement solutions that optimize data workflows and big data analytics.
- Conducted research and development to apply AI methodologies in predictive analytics.
- Contributed to the R&D efforts in the Information Systems Division by exploring new technologies and proposing innovative solutions for data challenges.

Technology Stack: Python, Hadoop, Apache Kafka, TensorFlow, SQL, Big Data Analytics, R&D

PROJECTS & RESEARCH

Business Application Development & Compliance Tools   **2024 - Present**
Built and optimized internal tools to streamline operations, compliance, and HR processes. Key projects included:
BT Conflict Check App, Timesheet Management System, Debtors Schedule System, IT Support App, Asset Tracking App, Easy Acknowledge App, HRMS System, Engagement Letter App, and Employee Database App.

Appliance Energy Prediction – Deep Learning Project   **-2025**
Built an energy consumption forecasting system using LSTM and baseline models on time series data. Engineered temporal features, applied Random Forest-based feature selection, and visualized predictions and residuals. Achieved an MAE of ~28 Wh, optimizing for real-world energy monitoring.

Agentic Research Assistant (RAG) – AI-Powered Research Tool   **-2025**
Developed a document-based research assistant using LangChain, FAISS, and OpenAI's GPT models. Integrated a Gradio UI for users to upload PDFs, ask research questions, and receive structured answers with reasoning steps, streamlining document analysis for researchers and students.

AI Content Generation Agent – No-Code Automation (n8n Platform)   **-2025**
Developed an AI agent for automated content writing and post generation using the n8n no-code workflow platform, streamlining digital content creation without manual intervention.

Optimizing Breast Cancer Prediction Models through Advanced Feature Selection Techniques FYP   **-2024**
Developed a machine learning model for breast cancer prediction using advanced feature selection techniques like PCA and graph-based models. Integrated mammography data to enhance early detection and improve diagnostic accuracy.

Natural Language Processing (NLP) Techniques and Text Classification Model   **- 2024**
NLP techniques to analyze textual data, including tokenization, feature extraction, and text classification, and comparing different approaches to improve performance

Integration of Explainable Artificial Intelligence (XAI) in the Financial Industry (Group Project)   **- 2024**
Explored the impact of XAI on fraud detection, credit scoring, and stock market analysis in the financial sector.

Developed a E-commerce Supply Chain Management -2024

Addressed logistics and profitability challenges in the e-commerce supply chain with digital integration and last-mile delivery solutions.

IoT and Edge AI for Home Automation - 2023

Integrated IoT and Edge AI for smart home automation with features like intrusion detection and object recognition.

Mobile Price Prediction Model Using TensorFlow TensorFlow - 2023

Created a TensorFlow model to predict mobile prices based on specifications and market trends.

Red Listed Plant Detection Application - TensorFlow - 2022

Developed a TensorFlow-based web app that identifies Red Listed plants using leaf photos.

SKILLS

Programming Languages: Python, Java, HTML, JavaScript, PHP, MySQL, R
Technologies: TensorFlow, Docker, Neo4j, RASA, AWS, Apache Kafka, Jupyter Notebook, Hadoop,OpenAI, Alteryx, Power Apps, Power Automate
Tools: Intellij IDEA, Pycharm, VS Code, Apache Flink

EDUCATION

2020 - 2024

University of Robert Gordan, Scotland, United Kingdom
BSc(Hons) Artificial Intelligence and Data Science
Key subjects: Machine Learning, Data Engineering, Computational Intelligence, Deep Learning, AI, and Data Science.

- 2020

ANANDA COLLEGE COLOMBO - 10
G.C.E. Advanced Level in Physical Science Stream (Sinhala Medium)
Results:
Combined Mathematics - S | Physics - C | ICT (English Medium)-

- 2017

DHARMAPALA VIDYALAYA PANNIPITIYA
G.C.E. Ordinary Level (Sinhala Medium)
Results:
- Results: 9A's

EXTRACURRICULAR ACTIVITIES

ANANDA COLLEGE COLOMBO - 10 : *Ananda College, Colombo: Asst. Treasurer, Science Society; Asst. Secretary, ICT Society; Vice President, Marine Association; Chairperson, 'PULZ' ICT Convention (2019-2020)*

DHARMAPALA VIDYALAYA PANNIPITIYA : *Dharmapala Vidyalaya: Senior Prefect (2016-2017)*

INFORMATICS INSTITUTE OF TECHNOLOGY (IIT) : *Communications & Media Secretary of Sports Council (2024), House Captain of GAMINI House (2024), Treasure of IIT Parade Committee (2023), Cricket Coordinator of IIT Cricket Team (2023-2024), Vice Captain of GAMINI House (2023), Secretary of the ' LEO LEAGUE'22 ' cricket tournament organized by LEO Club (2022), Chairperson of the 'එව නැඹෙ ' Charity project organized by LEO Club(2021), Candidate Of Student Union Election (Asst Secretary) (2021/22), Member of IIT Cricket Team (2021 - Present), Member of Interact Club (2021), Member of IIT(University) Leo Club (2021), Member of IIT(University) Rotaract Club (2021)*

AWARDS
- 1st Place (90m Beach Sprint) – 30th National Life Saving Intermediate Championship 2019
- 2nd Place (90m Beach Sprint) – 32nd National Life Saving Intermediate Championship 2019
- 3rd Place (90m Beach Sprint) – 31st National Life Saving Intermediate Championship 2018
- 3rd Place – International Livestock and Poultry Expo 2011 Art Competition organized by Ministry of Livestock & Rural Community Development
- Junior Champion of State Children's Art Festival 2014 organized by the Ministry of Buddhasasana, Religious and Cultural Affairs
- Obtain Top 3 positions in ART Competitions (School & Parama Dhamma School)
- Obtain Top 3 positions in Swimming and Athletic Events (School & University Levels)

REFERENCES

Roshan Watawala
0773647023
Director of Marketing
News first MTV/MBC Capital
5/3, Maharaja Group
Braybrooke Street, Colombo-02
roshan.w@cmg.lk

Chandima Rajaguru
0717678221
Senior Manager - Big Data & Data Science
chandimar@mobitel.lk
No 148/15, Lesley Ranagala Mawatha, Baseline Road, Colombo 8

Pooja Withanage
0717093120
Associate Quality Engineering Lead
Sysco LABS Technologies (Pvt) Ltd
55A, Dharmapala Mawatha, Colombo 03
pooja.sathsaranee@gmail.com