



CHAMUDITHA WANNINAYAKE

DATA SCIENCE UNDERGRADUATE



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PROFILE SUMMARY

An undergraduate specializing in Data Science, eager to gain industry exposure and apply theoretical knowledge to real-world challenges. Looking for an opportunity to develop practical skills in data analysis, machine learning, and business insights, while contributing to impactful projects and advancing my career.

WORK EXPERIENCE

Data Science Intern | Feb 2025 – Aug 2025

Sri Lanka Telecom - Research and Development Department

Led the AI intern team (Aisle Pod) and contributed to multiple Generative AI projects, including enterprise knowledge bases, and intelligent AI agents (recruitment assistant, customer support, personal assistant, and 3D avatar receptionist). Key contributions include developing the Agent Store (Flask, React, Azure Speech Services) with secure authentication, real-time chatbot interactions, and 3D avatar integration, and building a recruitment platform that automated CV processing and AI-powered interview workflows and Call Translation AI to call translation with multilingual to customer and agent. Delivered impactful AI solutions using OpenAI GPT, Hugging Face, Mistral AI, and Azure tools, while contributing to server-side architecture, business planning, and AI value chain strategies for the telecom sector.

- Agent Store | Flask, React, Azure Speech Services, Google Authentication, Copilot Studio, Three.js, RESTful APIs

Web based platform designed and developed to provide users with access to specialized AI agents for various tasks, including digital lab assistance, HR support, internship placement, and more in copilot studio. the system integrates Google Authentication for secure authentication and role-based access control. It features a modern UI with 3D avatars for interactive communication, real-time chatbot functionality powered by Bot Framework, and a scalable architecture deployed on a cloud environment. The platform ensures a seamless user experience with advanced AI capabilities tailored to enterprise needs.

- Recruitment AI Agent | AI Agent SDK, Azure Ai Foundry, Copilot Studio

Developed and implemented a recruitment process for identifying and presenting the top 10 candidates for available positions at SLTMOBITELE, ensuring alignment with job descriptions to facilitate efficient decision-making for the HR team.

EDUCATION

Sri Lanka Institute of Information Technology | October 2022 - Present

- BSc. (Hons.) in Information Technology specializing in Data Science
- CGPA: 3.5 (up to semester 6)

CERTIFICATIONS

AWS Academy Cloud Foundation | July 2024

Python for Data Science - Offered by IBM | June 2024

PyTorch: Tensor, Dataset and Data Augmentation - Offered by IBM | December 2024

Data Analysis with Python - Offered by IBM | December 2024

PROJECTS

Anti-Malaria Campaign (Final Research Project)

August 2025 - Present

- Developing an intelligent system that automates blood smear slide quality evaluation and malaria parasite detection using computer vision and deep learning techniques. The project improves diagnostic accuracy through smear origin detection, slide shape analysis, and AI-driven parasite identification.
- Technologies and tools : Python, OpenCV, TensorFlow/PyTorch, CNN/YOLO models, Google Colab

Skill-Sharing & Learning Platform Web Application

May 2025

- Developed a full-stack social learning platform where users can join communities, follow courses, complete quizzes, and share their achievements. Implemented features such as user authentication, interactive feeds, community enrollment, progress tracking, and a follow system to enhance user engagement and skill development.
- Technologies and tools : TypeScript, React, Java Spring Boot, Spring Security (OAuth 2.0), REST API, MySQL, Git & GitHub

Road Traffic Accident Severity Prediction Web Application

September 2024

- Developed a machine learning system for predicting road traffic accident severity and integrated it into a web application using Stream-lit for real-time predictions and improved road safety analysis.
- Technologies and tools : python, Stream-lit

End-to-End Text Summarization and Analysis System

September 2024

- Developed a text analysis system that provides concise summaries, identifies sentiments, extracts key information, and uncovers underlying topics from large text datasets.
- Technologies and tools : python, Flask

The Communication and Stationery Management System

May 2024

- Designed and implemented a system to streamline communication and manage inventory for a stationary shop
- Technologies and tools : MongoDB, Express, React JS, Node JS

The Stock Management System

October 2023

- Developed a stock management system to optimize stock levels and improve overall operational efficiency by contributing to better inventory control and decision-making.
- Technologies and tools : HTML, CSS, JavaScript, Java (JSP servlet), Apache Tomcat, Eclipse IDE

TECHNICAL SKILLS

- **Programming Languages:** Python, R, Java, C++, C, Kotlin
- **Cloud Computing:** AWS, Azure
- **Machine Learning:** TensorFlow, Keras, Scikit-learn, PyTorch
- **Data Visualization:** Matplotlib, Tableau, PowerBi
- **NLP Techniques:** Basic understanding and implementation
- **Databases:** MongoDB, MySQL
- **Web Development:** HTML, CSS, Php, JavaScript
- **Microsoft Applications:** Word, Excel, PowerPoint

SKILLS

- Teamwork and Collaboration
- Problem Solving and Analytical Thinking
- Time Management
- Effective Communication
- Leadership
- Fast Learner and Adaptive Learner

REFERENCES

Mr. Samadhi Chathuranga Rathnayake

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