Piyumi Weerarathna

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PROFILE

Computer Science undergraduate at the University of Kelaniya, specializing in **Data Science**. Curious and analytical problem-solver with a strong foundation in software engineering and a growing passion for data-driven innovation. Actively upskilling in data science fundamentals (Python, SQL, statistical analysis) to transition into machine learning engineering. Excited to leverage programming expertise to extract insights, **build predictive models**, and solve real-world challenges. Highly motivated to contribute to data-centric teams while accelerating learning through hands-on experimentation and mentorship.

EDUCATION

BSc(Hons)   Sept 2022 – present

University of Kelaniya, Computer Science Specialization with Data Science
- GPA: 3.27/4.0
- **Coursework:** Computer Architecture, Software Engineering , Object Oriented Programming, Data Structures and Algorithms

Advanced Level (G.C.E) - 2020

Sri Devananda College   Ambalangoda

Physical Science Streem   2019 - 2020

Z-Score: 1.5811

EXPERIENCE

Stacknet, Software Engineer Intern   June 2024 – Jan 2025
- Developed a restaurant web application using the **MERN** stack (MongoDB, Express.js, React.js, Node.js). Restaurant Demo ⬀
- Contributed to the development of a POS system using **ASP.NET**, improving transaction efficiency. Pos ⬀
- Implemented sales prediction models using **ML.NET**, enhancing business decision-making through data driven insights.
- Collaborated with a team in an **Agile** environment, participating in code reviews and feature development.

Rightmo, Web maintainer   Feb 2023 – June 2022
- Maintained and updated websites including maruads.lk, riahub.lk, songhub.lk, and GovDoc to ensure optimal performance.
- Managed content updates, feature enhancements to improve user experience.

PUBLICATIONS

A Review of Natural Language Processing Tools for Sinhala Language   November 2024

Piyumi Weerarathna - ResearchGate

10.1109/TASC.2023.3340648 ⬀

CERTIFICATES

- Supervised Machine Learning authorized by Stanford University & Deeplearning.Ai offered through Coursera Credentials ↗
- React offered by HackerRank Credentials ↗
- Foundation of User Experience Design : authorized by Google offered through Coursera Credentials ↗
- Introduction to Backend Development : authorized by Meta offered through Coursera Credentials ↗
- Programming with Javascript : authorized by Meta offered through Coursera Credentials ↗
- Python for Beginners : offered through University of Moratuwa Credentials ↗

PROJECTS

Movie Recommentation System   movie-recommended-system.git ↗

- Developed a content-based recommendation engine using **cosine similarity** and **Scikit-learn** to suggest movies, achieving 95% relevance in user feedback.
- Integrated the TMDB API to dynamically fetch movie posters and metadata, enhancing user engagement through visual interactivity.
- Tools Used: **Streamlit, Scikit-learn, Pandas, TMDB API**

Potato Disease Classification System   Potato-Disease-Classification.git ↗

- Developed a **deep learning** model using **TensorFlow/Keras** with 98.5% validation accuracy, implementing a **CNN** architecture to classify potato leaf images into three categories: Early Blight, Late Blight, and Healthy.
- Designed end-to-end preprocessing pipelines (**resizing, normalization, data augmentation**) and versioned models using automated workflows, reducing inference latency by 40% through **batch optimization.**
- Tools Used: **Python, Tensorflow, Keras**

MERN Stack Hotel Reservation System   ongoing

- Developed a full-stack hotel booking platform using **React, Node.js, Express, and MongoDB**, featuring user authentication, hotel search/filter, and reservation management.
- Integrated **real-time availability checks**, payment processing via **Stripe API**, and dynamic dashboards for users/hotel owners to manage bookings.
- Implemented RESTful APIs for CRUD operations, **JWT authentication**, and responsive UI with **React Context API** for state management.
- Designed database schema with **Mongoose**, enabling efficient querying of hotel data, pricing, and user reviews.
- Tools used: **MERN**

TECHNOLOGIES

Languages: C, Java, C#, SQL, JavaScript (React), Python

Technologies: .NET, Microsoft SQL Server, SpringBoot, HTML, Tailwind, Django

Data Science Machine Learning: Pandas, Numpy, Tensorflow, Scikit Learn, Seaborn, Matplotlib

Database: MySQL, PSQL, MongoDB

VOLUNTEERING EXPERIENCES

- Computer Science Student's Association (UOK) - Member
- LEO club (UOK) - PR Marketing Coordinator (CyberShield Project) - 2024
- UOK ISACA Student Group - Member