Sahan Bhanuka Bandaranayake

(Data Science – Internship)

Kandy, Sri Lanka ✉ sahanbhanuka10@gmail.com 📞 0778988024 Bahuka10 in Bhanuka Bandaranayake Bhanuka 🔗 portfolio

PROFILE

Motivated BSc (Hons) Computing and Information Systems undergraduate with a strong specialization in Data Science, Machine Learning, and AI-driven solutions. Proficient in Python, Scikit-Learn, Pandas, NumPy, and TensorFlow, with hands-on experience in data preprocessing, feature engineering, model building, model evaluation, and deploying real-world ML applications. Skilled in data visualization using Matplotlib, Seaborn, and Power BI, combined with solid knowledge of SQL and database management. Passionate about extracting meaningful insights from complex datasets, developing intelligent data-driven systems, and applying analytical and predictive modeling techniques to solve real-world challenges.

EDUCATION

BSc (Hons) in Computing and Information Systems   2023 – Present | Belihuloya
Sabaragamuwa University of Sri Lanka

Diploma in English   10/2022 – 05/2023 | Kandy
SIBA Campus

G.C.E. Advanced Level (Physical Science Stream)   2018 – 2020 | Kandy
Dharmaraja College

PROJECTS

Personalized Learning Web & Mobile Application (Group) 🔗   02/2025 – 05/2025
(React.js, Firebase, Gemini API, YouTube API, Git, Figma)
- Developed a personalized learning application with AI integration and a chatbot to recommend tailored courses and track user progress.
- Contributed by building a responsive React.js front-end, managing the Firebase backend, integrating the YouTube API for educational content, implementing progress tracking, and incorporating AI/ML algorithms for personalized recommendations, while collaborating via Git/GitHub and following Agile methodologies.

Laptop Price Predictor(Individual) 🔗   11/2025 – 11/2025
(Pandas, NumPy, Matplotlib, Scikit-learn,Flask,HTML,CSS)
- Laptop Price Predictor is a Flask-based web application that predicts laptop prices using machine learning. It analyzes specifications like RAM, storage, processor, and brand to estimate price. The model was built with Pandas, NumPy, Matplotlib, and Scikit-learn, and integrated with an HTML/CSS frontend for real-time predictions.

Text-Preprocessing Project(Individual) 🔗   11/2025 – Present
(Pandas, NumPy, Matplotlib, Scikit-learn,Flask, HTML, CSS, Deep learning)
- A project focused on implementing core text-preprocessing techniques for natural language data. It covers tasks such as cleaning raw text, tokenization, stop-word removal, stemming/lemmatization, and preparing data for downstream machine-learning or deep-learning workflows.

Hostel Management System (Group) 🔗   05/2025 – 09/2025
(Laravel, Blade, Bootstrap, MySQL, Git)
- Developed a web application to manage hostel operations, including room allocation, student registration, and fee tracking.
- Contributed by building a responsive front-end with Blade & Bootstrap, developing the Laravel & MySQL backend, and implementing search, reporting, and notification features to improve operational efficiency.

Movie Explorer Web Application (Individual)   06/2025 – 07/2025
(React.js, JavaScript, REST API, Git)
- Developed a responsive web application to search, explore, and save the latest movies with real-time data.
- Contributed by building the React.js front-end, integrating a movie API for dynamic search and content, and collaborating with the team using Git.

Expense Tracker Web Application (individual) 🔗   09/2025 – 10/2025
(MERN: MongoDB, Express, React.js, Node.js)
- Developed a responsive web application to add, manage, and track daily expenses with category-wise summaries and visual charts for better financial insights.
- Contributed by building the React.js front-end, developing the Node.js & Express backend, integrating MongoDB for data storage, implementing charts for data visualization, and collaborating using Git.

TECHNICAL SKILLS

Programming Languages: Python, Java, C, JavaScript, PHP

Frameworks and libraries: PyTorch, Scikit-Learn, Pandas, NumPy, Matplotlib, Seaborn, Flask, TensorFlow, Laravel,

Databases: MySQL, MongoDB, Firebase

Cloud & Development Tools: AWS, Docker, Postman, Git, Figma, VS Code, IntelliJ IDEA, Jupyter Notebook(Machine Learning)

Core Concepts: Deep Learning, Machine Learning, Object-Oriented Programming (OOP), Agile Development

SOFT SKILLS

- Problem-solving
- Leadership
- Communication Skills
- Critical Thinking
- Teamwork & Collaboration
- Adaptability & Quick Learning
- Creativity & Innovation
- Decision Making

ACHIVEMENTS

Semi-finalist at HackX 10.0   10/2025
Department of Industrial Management   Faculty of Science
University of Kelaniya
(Developed a cross-platform AI chatbot that detects emotions from text and voice to provide empathetic, personalized support)

CERTIFICATES

AI/ML Enginner - Centre for Open and Distance Education - SLIIT ⊘
This comprehensive course provided a strong foundation in machine learning concepts and hands-on experience with real-world projects and datasets.

AI/ML - HP LIFE online course ⊘
This was a fantastic course that went beyond the basics, offering great insights into the ethical implications of AI and why data is so crucial to the technology.

Data Science and Analytics - HP LIFE ⊘
This course provided practical knowledge in:Leading data science and analytics practicesModern tools and methodologies used in the fieldThe benefits and challenges of using data-driven approaches in businessEssential skills to pursue a career in data analytic

Python- (CODL) Department of Computer Science & Engineering Moratuwa University
Completed a Python programming course covering fundamental concepts such as variables, data types, loops, conditional statements, functions, file handling, and error handling. Gained hands-on experience in writing scripts, creating simple projects, and applying Python to solve real-world problems.

VOLUNTEERING EXPERIENCE

Society of Computer Sciences – 33rd Fortnight Meetup ⊘   06/2025
Host
Feeling incredibly honored to have hosted the 33rd Fortnight Meetup organized by the Society of Computer Sciences, Faculty of Computing – Sabaragamuwa University of Sri Lanka.

STEMUP Educational Foundation   02/2025
Volunteer
Created a Python programming video in English, enhancing skills in communication, teaching, and knowledge sharing.

ICARC 2025 ⊘   02/2025
Host
Machine Learning for Next-Generation IoT Applications" – ICARC 2025. Attended a key learning session on applying machine learning techniques to IoT, covering wireless indoor localization, signal processing, and practical Python based implementations for real-world IoT applications.

REFERENCES

Miss. S. Adeeba, *Lecturer (Probationary),*
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