JANANGI SENARATHNA

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About Me

Experienced Lecturer and IT Professional with over 4 years of academic experience and 2 years of industry experience in software development and technology. Passionate about sharing knowledge, building practical solutions, and continuously learning. Seeking an opportunity to contribute my technical expertise, teaching experience, and problem-solving skills to support organizational growth while further developing my professional career.

Technical Skills

Programming: Python, Java, C, JavaScript, R, SQL, Bash/Shell Scripting

AI/Machine Learning: Machine Learning, Deep Learning, Scikit-learn, TensorFlow/PyTorch, Data Preprocessing, Model Evaluation

Data & Analytics: Pandas, NumPy, Power BI, Data Visualization, Statistical Analysis

Web & development: HTML, CSS, JavaScript, REST APIs, Node.js (basic)

Databases: MySQL, PostgreSQL, MongoDB

DevOps & Cloud: Git, GitHub/GitLab, Docker, Kubernetes (basic), CI/CD Concepts, Linux

Tools & Technologies: Figma, Postman, Microsoft Office, Notion, SupaDemo

Software Engineering Practices: Agile, Scrum, User Stories, Use Cases, Test Cases UX & Research

UX & Research: User Research, Prototyping

Professional Experiences

Learning experience designer
AppVentory
2025 – 2026

- Designed and developed engaging training materials, including presentations, guides, and instructional content to support employee learning and development.
- Created and edited training video contents and digital learning resources for internal knowledge sharing and onboarding programs.
- Collaborated with subject matter experts to understand training requirements and translate them into structured learning content.
- Organized and maintained learning materials on internal platforms to ensure easy access for employees.
- Contributed to improving training effectiveness by incorporating feedback and enhancing content clarity and engagement.

Academic Lecturer
Edith Cowan University Sri Lanka
2024 – 2025

- Delivered lectures and conducted practical sessions in computing and IT-related subjects, supporting students in developing both theoretical knowledge and hands-on technical skills.
- Prepared lecture materials, tutorials, and assessments aligned with curriculum standards and learning outcomes.
- Evaluated student performance through assignments, presentations, and examinations, providing constructive feedback to support academic progress.
- Mentored and guided students on academic projects, encouraging critical thinking, research, and problem-solving abilities.
- Collaborated with academic staff to enhance course content, teaching methods, and overall student learning experience.

Academic Instructor
Sri Lanka Institute of Information Technology (SLIIT)
2021-2024

- Conducted practical and lab sessions in R, Python, Power BI, Java, and Kotlin, delivering hands-on guidance to support student learning and technical skill development.
- Guided students in software design and development concepts, including use case creation, user stories, wireframing, and basic application design.
- Assessed student performance through continuous evaluations, assignments, and final examinations, ensuring academic standards and timely feedback.
- Mentored students on project work and problem-solving approaches, fostering analytical and practical thinking skills.

Professional Skills

Problem Solving

Analytical Thinking

Communication

Team Collaboration

Problem Solving

Self-Learning

Education

MSc in Advanced Software Engineering

University of Westminister | IIT
2022-2024

**BSc (Hons) in Information Technology
Specializing in Information Technology**

Sri Lanka Institute of Information Technology (SLIIT)
2017-2021

G.C.E (A/L) Examination | Biology

Central College Bandarawela
2016

Languages

English Fluent
Sinhalease Native

Associate Consultant   2021-2022

Altria Consulting (Pvt) Ltd

- Developed and maintained SSRS reports using SQL stored procedures to support business reporting requirements.
- Designed and generated interactive Power BI dashboards and reports for data analysis and decision-making.
- Contributed to the preparation and documentation of Business Requirement Documents (BRDs) by gathering and organizing functional requirements.
- Collaborated with stakeholders to understand reporting needs and translate them into technical solutions.

Trainee Software Engineer   2018-2019

Dialog Axiata PLC

- Assisted in the design, development, and testing of software components under the guidance of senior engineers.
- Supported debugging, troubleshooting, and resolving basic application issues to ensure system stability and performance.
- Participated in requirement analysis, documentation, and implementation of small-scale features and enhancements.
- Worked with databases to write basic SQL queries for data retrieval, validation, and reporting tasks.
- Contributed to testing activities, including unit testing and documenting test cases to improve software quality.
- Collaborated with cross-functional teams in an Agile environment, gaining exposure to the software development lifecycle and best practices.

Publications

Supermarket Retail - Based Demand and Price Prediction of Vegetables - Publication Link

Inventory Management with Origin Tracing Using LSTM and Blockchain - Publication Link

Major Academic Projects

MSc Final research

Multimodal Emotion Recognition & Emoji Generation System

- Built an intelligent web application capable of detecting human emotions using facial expressions and vocal inputs.
- Applied Convolutional Neural Networks (CNN) to recognize emotional states and generate corresponding emojis for mental health awareness and monitoring.
- Focused on integrating multiple input modalities to improve emotion detection accuracy.

Technologies: Python, Machine Learning, Deep Learning, CNN

BSc Final research

Supermarket Retail Demand & Price Prediction for Vegetables

- Developed a web-based application to forecast future demand and price trends of retail vegetables using predictive analytics.
- Implemented machine learning and deep learning models to analyze historical sales and pricing data for accurate predictions.
- Designed an interactive frontend to visualize insights and support data-driven decision-making.

Technologies: Python, Machine Learning, Deep Learning, React