

SAHAN SILVA

✉ sahansilva.main@gmail.com | 📞 +94 76 241 1576 | 📍 Piliyandala, Sri Lanka | 🌐 sahan-silva | 🐙 SahansilvaDev | 🌐 sahansilva | 📧 sahansilva

Certified AI Engineer at IBM with expertise in Artificial Intelligence, Machine Learning, Deep Learning, and NLP. Proficient in Python, Java, C, Dart, Flutter, PHP, HTML, CSS, and JavaScript. Skilled in developing and deploying scalable AI solutions for automation, document processing, and data-driven optimization. A results-driven professional passionate about leveraging technology to solve complex challenges and enhance business performance.

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, multilingual call translation systems, 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, Microsoft Azure AD and Google Authentication, Copilot Studio, Blender, 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 Microsoft Azure AD and 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 Platform** | Open AI GPT Models, Flask, React, Azure Speech Services
Integrated with developed Recruitment AI Agent, and the project comprehensive recruitment management system designed to streamline the hiring process. Integrating advanced technologies like Azure Speech SDK for continuous voice input and face-api.js for facial recognition. The platform supports automated CV extraction, interview panel management, and real-time data processing, making it an innovative solution for modern recruitment needs.
- Recruitment AI Agent** | AI Agent SDK, Azure Ai Foundry, Hugging Face LLM Models, Python Libraries, Mistral Ai, Open AI GPT Models
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.
- Call Translation AI to Sinhala** | Opensource AI tools Whisper for speech-to-text, Google translation for translation, text-to-speech, Azure
Developed a multilingual call translation system that integrates speech-to-text, text-to-text translation, and text-to-speech processes to support Sinhala language. Utilized opensource tools to ensure efficient real-time communication. And also integrate input using microphone and backend work with azure speech services in multilingual.

Software Engineering Intern May 2024 – November 2024
Interwave Solutions (Pvt) Ltd

- Contributed to the development of a web application tailored for organizational internal and external use, focusing on enhancing operational efficiency and user experience.

EDUCATION

BSc (Hons) in Data Science (First Class Honours – 3.71) (Batch Top - 2025B Batch) 2021 – 2025
Sri Lanka Technology Campus (SLTC)

IBM AI Engineering Professional 2025
IBM - New York, United States

IBM Data Science Professional 2023 - 2024
IBM - New York, United States

PROJECTS

Neural Network-Based System for Early Detection & Intervention of Dysgraphia in Children July 2024 – October 2025
TensorFlow, PyTorch, Flask, Python, React, Neural networks, Transformers, Weighted average Algorithms (**Final Year Research Project**)

- This project aims to develop a gamified multiplatform app using neural networks to detect and enhance the language and numeric skills of Sinhala-speaking children with dysgraphia. Recognized with A+ (Highest Grade) for Innovation and Technical Excellence.

Mental Health 3D Avatar Chatbot | Python, React, Azure Speech services, Open Ai, Blender, Three.js, Firebase Personal - July 2025

- Developed an AI powered assistant integrating advanced mental health support features, including Retrieval-Augmented Generation (RAG) for document-based knowledge enhancement, Azure Speech for voice input/output, and a visually engaging 3D avatar interface and provide evidence-based mental health information, crisis detection, and user-friendly interaction.

Job Application Pipeline Automation 🔄 | Python, Google Cloud | [demo](#) 🌐 Personal - Mar 2025

- This project automates the processing of job application submissions by integrating a live web form with Google Sheets, Google Drive, and external APIs. It streamlines the process of collecting candidate data, processing CV links, triggering webhook notifications, and scheduling follow-up emails.

Azure AI Agent Creation Project 🔄 | Python, Azure AI Services, Azure Cloud | [demo](#) 🌐 Personal - Feb 2025

- Created intelligent agents including recruitment AI agents for candidate screening and a Retrieval-Augmented Generation (RAG) agent for enhanced information retrieval. Leveraged Azure Cognitive Services, Azure Ai Foundry, Azure Storage, and Azure Search for scalable, data-driven decision support.

Text to Image Generation Flux with LoRA 🔄 | Python, FLUX Dev model, LoRA | [demo](#) 🌐 Personal - Dec 2024

- Developed using FLUX Dev to develop custom LoRA for generate your own images what you desire.

Technical Skills

Programming Languages: Python, JavaScript, C, Java, SQL, PHP, Dart, HTML, CSS, R
Frameworks & Libraries: TensorFlow, PyTorch, Scikit-learn, React, Next.js, Tailwind CSS, Flutter, Laravel, Angular, MERN Stack, NumPy, Pandas, OpenCV, Django, Flask, face-api.js
AI/ML & NLP Tools: OpenAI GPT Models, Hugging Face Transformers, Mistral AI, Azure AI Foundry, Whisper, Azure Cognitive Services, Bot Framework, AI Agent SDK
Cloud & DevOps: Microsoft Azure, Azure Speech Services, Azure Active Directory (AD), Google Authentication, Docker, Kubernetes, Linux (Ubuntu)
Databases: SQL, MongoDB
UI/UX Design: Figma, WordPress (CMS), Copilot Studio
3D & Immersive Tech: Blender, Three.js, 3D Avatar Integration
Data Visualization: Power BI, Tableau
Specializations: Machine Learning, Deep Learning, Prompt Engineering, Generative AI, Real-time AI Agents, Voice & Text-based AI Interfaces

Soft skills

Communication, Critical Thinking, Coordination, Creativity
Team collaboration, Time Management, Teamwork, Event Planning, Leadership
Presentation skills, Project Management, Public Speaking, Solution Oriented Problem Solving
Adaptability, Active Learning, Innovation mindset, Strong analytical skills, Ability to work with cross-functional teams

Extra-Curricular Activities

Vice President in Business Development AIESEC in SLTC	2023 – 2025
<ul style="list-style-type: none">Nominated for Best Performing initiative Group Vice President Award for 2024Management Board AIESEC in SLTCLeader Board in Business Development	

Certification

- Fundamentals of Robotics & Industrial Automation - L & T EduTech (2026)
- Gen AI Foundational Models for NLP & Language Understanding - IBM (2025)
- Deep Learning with Keras and Tensorflow - IBM (2025)
- Generative AI Language Modeling with Transformers - IBM (2025)
- Python for Data Science, AI & Development - IBM (2024)
- Databases and SQL for Data Science with Python - IBM (2024)
- Professional Diploma in Project Management - Project Management Institute (2024)
- Docker Foundations Professional Certificate – Docker.Inc (2024)
- PHP and MySQL for Web Application and Web Development - Udemy (2024)
- Introduction to Large Language Models - Google (2024)
- Programming Foundations Software Testing QA - LinkedIn (2024)
- Software Architecture from Developer to Architect - LinkedIn (2024)
- Business Development Foundations - LinkedIn (2024)
- Machine Learning with Python - IBM (2023)
- Cybersecurity and the Internet of Things - KENNESAW STATE UNIVERSITY (2023)

Awards & Achievements

Dean's Award for Academic Excellence – Faculty of Computing & IT (2025B Batch) Recognized for outstanding academic excellence within the Faculty of Computing & IT for the 2025B batch.	2025
Gold Medal for Academic Excellence in Data Science (2025B) Awarded by the Faculty of Computing & IT for achieving the highest academic performance in the BSc (Hons) in Data Science program.	2025

Publications

Conference Papers

- G. V. S. C. Silva**, A. G. C. S. Bandara, M. W. P. Maduranga, M. Imran Uvais “Developing a Comprehensive Handwriting Dataset for Early Detection of Numeric Dysgraphia Across Sri Lanka” accepted for 119th IESL Annual Research Symposium, Srilanka, 2025

References

Charith Epitawatta Senior Lead Software Engineer at IFS Phone: +94 71 616 1793 Email: dilancharith@rocketmail.com	Dr MWP Maduranga Senior Lecturer (Grade I) Department of Electrical and Electronic Engineering University of Sri Jayewardenepura Phone: +94 771 417 275 Email: pasanm@sjp.ac.lk
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