

# SUWAN SANKAJA

## DATA ENGINEER | AI/ML ENTHUSIAST

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### ABOUT ME

I am a passionate and self-motivated individual with expertise in Data Engineering, Data Science, and AI. I enjoy solving challenges and creating innovative solutions that make a real impact. With a focus on growth and delivering meaningful results, I bring curiosity, dedication, and a strong work ethic to everything I do.

### PROFESSIONAL EXPERIENCE

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#### Software Engineer, JahanAI (Pvt) Ltd 2025 June - Present

- Assigned to the "JahanVerse" project, an AI-powered retail and supply chain optimization platform.
- Developed full-stack features using Webix, JavaScript, HTML/CSS frontend with Django backend and PostgreSQL database, deployed on GCP infrastructure.
- Built responsive interfaces and scalable backend systems to support AI-driven demand forecasting, pricing optimization, and inventory management solutions.

#### Data Engineer, Avantrio (Pvt) Ltd 2023 Nov - 2025 Apr

- Assigned to the "Prop-AI" project, a real estate web application.
- Improved data pipeline efficiency by 60% by optimizing existing logic, enabling parallel execution, and automating processes.
- Enhanced system scalability and reliability to handle increasing data volumes.

### PROJECTS

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#### Transformer-Based Natural Language Explanation Generation for APR (Final Year Project) 2024 Jun - 2025 Jun

- Final-year research project focused on developing a transformer-based model for generating natural language explanations and performing automated bug repair.
- The project involves creating a novel dataset containing explanations for buggy code, which serves as a foundation for model training. ([Github](#))
- Tech Stack : LLama 3, LLMs, Python, Jupyter, CUDA, PyTorch, Java**

#### Confinix Stream 2025 July - Present

- Solo project developed to create a cross-platform media streaming application that aggregates movies & TV shows from multiple cloud storage services into a unified library.
- Integrated TMDB API for rich metadata retrieval and implemented seamless video playback with advanced search functionality across Android, iOS, Web, Windows, macOS, and Linux platforms.
- Built support for multiple cloud providers including Koofr, pCloud, and custom WebDAV servers with automated media organization and account management features. ([Github](#))
- Tech Stack: Flutter (Dart), TMDB API, WebDAV protocol**

#### Confinix Exchange Rate Tracker 2025 Jun - 2025 Aug

- Solo data engineering project for automated exchange rate tracking across 9+ banks and 4 currencies.
- Built Python ETL pipeline with Selenium (GitHub Actions scheduled) and responsive dashboard with Node.js APIs.
- Deployed using Docker with Nginx and SSL for production reliability. ([GitHub](#))
- Tech Stack: Python, Selenium, MongoDB, Node.js, Express.js, GitHub Actions, Docker**

Crypto Notifier

2024 Oct - 2024 Nov

- Solo project initiated out of a personal interest in cryptocurrency.
- Designed and developed a comprehensive cryptocurrency alert system to track significant price fluctuations in coin pairs.
- Incorporated automated real-time email notifications to promptly inform users of notable price changes, enhancing decision-making. ([Github](#))
- **Tech Stack: Python, Docker, and Cloud infrastructure (Digital Ocean)**

Medical Chatbot

2023 Jun - 2023 Nov

- Group Project for the Data Science Project in the university.
- Built a multi language medical chatbot with natural language understanding.
- Integrated LLAMA 2 for general query responses. ([Github](#))
- **Tech Stack : React, Tailwind CSS, RASA NLU, PHP, Spring Boot, MySQL**

SKILLS

Technical Fields:

- Data Engineering
- Machine Learning
- Data Science
- ML Ops
- Big Data
- Fullstack Development
- Cloud Computing

Programming Languages:

- Python
- Java
- JavaScript
- Go

Data Engineering:

- Databricks
- Spark
- Airflow
- Kafka

AI/ML:

- LLM
- NLP
- DNN
- RAG

Databases:

- MongoDB
- PostgreSQL
- MySQL

Backend:

- Express
- Node.js
- Spring Boot
- Django

Frontend:

- React
- React Native
- Tailwind

EDUCATION

BSc Eng Hons, Computer Science & Engineering

2021 Jun - 2025 Jun

University of Moratuwa

- Specializing in Data Science & Engineering

Royal College

2016 Jun - 2019 Aug

- G.C.E A/L 2019: AAB Passes (Physical Science Stream)
- G.C.E O/L 2015: 9 A Passes

CERTIFICATIONS

- Machine Learning Specialization - DeepLearning.AI
- Networking Essentials - Cisco
- Introduction to IoT - Cisco
- Introduction to Cybersecurity - Cisco
- Machine Learning Foundations - AWS
- Machine Learning for Natural Language Processing - AWS

HIGHLIGHTS

- Deans List: Semester 5, 6, 7, 8
- SLIIT Bashaway 2023: 2nd Runner up
- [ProjectEuler.net](#): Island 7th (in Sri Lanka Region)
- ACES Coders 2023: 8th place
- Interests: Chess ,Tennis, Karate

REFERENCES

Mr. Suresh Sandirasegaram

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