

Pinil Dissanayaka

Data Scientist

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Summary

Motivated Data Scientist with a strong foundation in Artificial Intelligence, Machine Learning, and Data Engineering. Skilled in building AI systems, designing and training machine learning models, developing APIs, and constructing end-to-end data infrastructure. Experienced in deploying AI solutions on cloud platforms. Known for problem-solving, analytical thinking, and a collaborative approach to driving innovation and achieving goals. Passionate about leveraging AI to solve real-world challenges and create impactful solutions.

Education

Bachelors of Science (Hons) Computing and Information Systems	Feb 2021 – Feb 2024
<ul style="list-style-type: none">Sabaragamuwa University of Sri Lanka BelihuloyaGPA: 3.47/4.0	
G.C.E Advanced Level	Feb 2009 – Sep 2020
<ul style="list-style-type: none">President's College Sri Jayawardhanapura - Kotte	

Work Experience

- Machine Learning Engineer** | AbsolX Core AI
- Worked Under CodeGen International, utilizing Stable Diffusion for image generation and optimizing AI agents.
 - Collaborated with teams to integrate scalable AI models into production systems.
 - Conducted ongoing research to integrate the latest AI advancements, optimizing model accuracy.
- AI Developer** | NoLoopTech
- Specialized in large language model fine-tuning, building AI agents, and chatbots.
 - Collaborated with cross-functional teams to integrate scalable AI models into production systems.
 - Led ongoing research to implement the latest AI advancements, optimizing model accuracy and performance.

Skills

Languages: Python, Java, JavaScript, PHP
Databases: MySQL, Microsoft SQL Server, PostgreSQL, MongoDB, Neo4j
Libraries: Numpy, Pandas, Statsmodels, Matplotlib, Seaborn, Plotly, NLTK, Scikit-learn, OpenCV, MLflow, Transformers, React
Frameworks: TensorFlow, PyTorch, LangChain, LangGraph, CrewAI, LlamaIndex, Flask, FastAPI, Django, Laravel
Tools & Technologies: GitHub, Git, Docker, Power BI, AWS, Apache Airflow, Apache Spark, Apache Kafka

Achievements

- Finalist, IEEE AI-Driven Sri Lanka 2024** – Selected for developing innovative AI-driven solutions in Sri Lanka president election.
- 2nd Runner-Up, Data Odyssey 2024** – Awarded for designing the Agri-Connect system.
- 1st Runner-Up, TADHack 2023** – For innovative contributions to the AI-powered Agri-Connect app.

Projects

AI Chatbot with Dynamic Tool Integration: Developed for NoloopTech

- Built an intelligent AI chatbot for NoloopTech featuring a modular, agent-driven architecture capable of retrieving, rewriting, and generating responses in real time.
- Integrated dynamic tools for sending automated emails and fetching data from databases, enabling seamless customer support and business automation.
- Designed a flexible plugin-style system for tool integration, allowing easy expansion to services like CRM, APIs, and internal platforms.
- Tools and Technologies : Python, LangChain, LangGraph, and FastAPI.

Jan 2025 – Mar 2025

 [AI Chat Agent](#)

Rise Construction AI Agent: Developed for Rise Tech Village

- Designed and developed "Rise Construction AI Agent", a chat-based, intelligent multi-role platform for the construction industry.
- Enabled users to handle construction-related inquiries, resource rentals (machines and labor), and project management seamlessly via chat.
- Built scalable, AI-driven solutions to simplify construction workflows and enhance operational efficiency through chat interactions.
- Tools and Technologies : Python, LangChain, LangGraph, Unstructured, Flutter and Transformers.

Dec 2024 – Feb 2025

 [Rise Construction](#)

Paddy Doctor: Automated Paddy Disease Classification System

- Designed and developed a system that uses image processing and convolutional neural networks (CNN) to classify more than 10 diseases of the paddy crop with an accuracy of 98%.
- Tools and Technologies : Python, Flask, TensorFlow, Keras, and OpenCV

Jun 2024 – Aug 2024

 [Paddy-Doctor](#)

Glova: Revolutionizing Skincare with AI-Powered Personalization

- Implemented advanced facial recognition technology to analyze skin types and conditions with 98% classification accuracy. Enabled precise assessments as a foundation for personalized skincare routines.
- Developed AI models to create tailor-made skincare plans achieving 95% user satisfaction based on feedback.
- Tools and Technologies : Flutter, Python, Flask, TensorFlow, Keras, OpenCV, and LangChain.

Sep 2023 – Feb 2024

 [Glova](#)

Agri Connect: AI-Powered Crop Recommendation and Disease Prediction System



- Designed and implemented a Crop Recommendation Tool using long- and short-term memory (LSTM) models, achieving 98% precision in predicting optimal crops based on location, soil, and climate conditions.
- Developed a solution recommendation system using RAG architecture, leveraging local data sources to generate context-specific real-time treatment solutions for predicted diseases.
- Tools and Technologies : ReactJS, Python, FastAPI, TensorFlow, Keras, OpenCV, LangChain, and scikit-learn.

Aug 2023 – Sep 2023



 [Agri-Connect](#)

References

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