

MANOJ ABERATHNA

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PROFILE

BSc (Hons) Information Technology undergraduate specializing in Artificial Intelligence, Machine Learning, and Data Science. Experienced in designing and deploying end-to-end AI solutions including image classification systems, intelligent chatbots, and automated data analysis platforms. Strong proficiency in Python, SQL, FastAPI, Streamlit, and deep learning frameworks, with a solid foundation in data preprocessing, model optimization, and system integration. Passionate about building scalable, data-driven applications that solve real-world problems.

EDUCATION

BSc (Hons) in Information Technology (Undergraduate) – Horizon Campus, Sri Lanka (2022 - 2026)

G.C.E. Advanced Level – Technology Stream (2020) 1 Credit Pass, 2 Simple Passes

PROJECTS

- **Vehicle Damage Identification & Repair Shop Recommendation System**
AI-based system to detect vehicle damage from images and recommend nearby repair shops, improving decision-making and reducing user effort.
Tools & Technologies: Python, TensorFlow, Keras, Flask, Flutter, React Native
- **ConveneAI – Automated AI Meeting Assistant**
AI assistant that automatically joins meetings, transcribes conversations, generates summaries and action items, and delivers PDF reports via email.
Tools & Technologies: Python, OpenAI Whisper, OpenRouter, Selenium, SMTP, PDF Generation
- **AI Chatbot with OpenRouter**
Real-time conversational AI chatbot supporting contextual and personalized interactions using LLM APIs.
Tools & Technologies: Python, Flask, OpenRouter API, HTML, CSS

- **DataSense AI – Automated Data Analysis & AutoML Platform**

End-to-end platform for automated data preprocessing, visualization, ML model training, and natural language querying for faster insights.

Tools & Technologies: Python, Pandas, Scikit-learn, AutoML, Streamlit.

- **Other Projects:**

- Image Classification & Auto-Labeling System (Deep Learning)
- AI Job Application Assistant – Streamlit App
- DevOps CI/CD Pipeline (Jenkins Automation)
- Email Assistant Automation (n8n)
- Boston Housing Price Prediction
- Career Prediction System
- PetCare – Full-Stack E-Commerce Website
- Supermarket Billing & Inventory System
- Fitness Mobile App (Android Studio)
- Library Management System (Java)

PROFESSIONAL QUALIFICATIONS

- TryHackMe – Cybersecurity learning paths and badges
- HackTheBox – Completed offensive rooms and badges
- Kaggle – Data science and machine learning competitions
- Oracle - AI Foundations Associate, Fusion AI Agent Studio Certified
- Coursera - Microsoft AI & ML Engineering, AI Foundation (IBM)
- Simplilearn - Data Analytics with Generative AI, Prompt Engineering with Google Copilot

SKILLS

- **Programming Languages:** Python, Java, Kotlin, C, JavaScript
- **Web & App Development:** HTML, CSS, JavaScript, PHP, Flask, React Native, Flutter
- **Database & Cloud DB:** MySQL, SQL Server, Oracle, Supabase, Firebase
- **Automation & Tools:** n8n, FastAPI, Streamlit
- **Soft Skills:** Communication, Creativity, Leadership, Attention to detail

REFERENCES

Mr. Daminda Herath
Senior Lecturer,

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