

# MANOJ ABERATHNA

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## Summary

BSc (Hons) Information Technology undergraduate specializing in Artificial Intelligence, Machine Learning, and Data Science. Experienced in developing end-to-end AI solutions such as image classification systems, intelligent chatbots, Predictions and automated data analysis platforms. Proficient in Python, SQL, FastAPI, and Streamlit, with strong skills in data preprocessing, model optimization, and system integration for real-world scalable intelligent applications.

## Education

<b>Horizon Campus, Malabe</b> <i>BSc. (Hons) in Information Technology</i>	2022 – Present
<b>U.B Wanninayaka Navodya School , Balalla</b> <i>GCE Advanced Level – Technology Stream</i>	2017 – 2020

## Professional Skills

- **Programming Languages:** Python, Java, C, JavaScript
- **Machine Learning:** AI/ML model development, Supervised & Unsupervised Learning, Deep Learning
- **Frameworks & Libraries:** TensorFlow, Keras, scikit-learn, Pandas, Matplotlib
- **Web Development:** React, HTML, CSS, Tailwind CSS, Node.js, Express.js
- **Databases:** MongoDB, MySQL, Firebase,supabase
- **Mobile App Development:** Android (Java)(kotlin)
- **UI/UX:** Figma
- **Project Management:** Jira Software
- **Tools & IDEs:** Android Studio, VS Code, Anaconda, Jupyter Notebook, NetBeans
- **Others:** Git, GitHub,Postman, Docker, Jenkins, Hugging Face

## Certifications

- **AI/ML Engineer Course (Stage 1), SLIIT, Sri Lanka (2025)**
- **Intro to Deep Learning, Kaggle (2024)**
- **Microsoft AI & ML Engineering, AI Foundation (IBM) (Coursera 2025)**
- **AI Foundations Associate, Fusion AI Agent Studio Certified (Oracle (2025))**
- **Java Development Workshop (2024)**
- **Python Programming and Introduction to Programming Using Python, Udemy (2024)**
- **Data Analytics with Generative AI, Prompt Engineering with Google Copilot (Simplelearn 2025)**

## Projects

- **Vehicle Damage Identification & Repair Shop Recommendation System**
  - *Technologies: Python, TensorFlow, Keras, Flask, Flutter, React Native*
  - *AI-based system to Detects vehicle damage from images and recommends nearby repair shops, improving decision-making and reducing user effort.*

- **ConveneAI - Automated AI Meeting Assistant**

- *Technologies: Python, OpenAI Whisper, OpenRouter, Selenium, SMTP, PDF generations*

AI assistant that automatically joins meetings, transcribes conversations, generates summaries and action items, and delivers PDF reports via email.

- **AI Chatbot with OpenRouter**

- *Technologies: Python, Flask, OpenRouter API, HTML, CSS*

Real-time conversational AI chatbot supporting contextual and personalized interactions using LLM APIs.

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

- *Technologies Python, Pandas, Scikit-learn, AutoML, Streamlit*

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

- **Automated P2P Data Exfiltration & Secure Recovery Payload**

- *Technologies Bash Scripting, PowerShell, Croc (P2P), Linux (Termux), AES-256 Encryption.*

Developed a stealth-oriented data exfiltration tool designed to autonomously identify and extract sensitive media from Android environments without manual intervention.

## **Other Projects**

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- SecureVault - Zero-Knowledge Encryption Tool (Cybersecurity & AES-256)
- 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)

## **Strengths**

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- Problem-solving and analytical skills
- Teamwork, leadership, and collaboration
- Creativity, visual thinking, and time management

## **Leadership**

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Actively contributed to team projects, collaborating with peers to deliver AI/ML solutions.

## **References**

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**Mr. Daminda Herath**

Senior Lecturer, Horizon Campus Malabe

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