

# Heshal Dissanayake

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36/3,Jinanandagama Road, Hindagoda Badulla

## PROFILE

Data Science undergraduate specializing in machine learning, data analytics, and production-ready ML systems. Experienced in building and deploying ML models via FastAPI, orchestrating microservices, and integrating data-driven intelligence into full-stack applications. Strong foundation in Python, SQL, cloud platforms, and containerized deployments. Seeking a Data Analyst / Data Scientist / ML Engineer related role.

## TECHNICAL SKILLS

### Programming & Query Languages

Python, SQL, R, Java, C, C++, JavaScript

### Frameworks & Libraries

scikit-learn, pandas, NumPy, FastAPI

### Web & APIs

React, Node.js, Express, REST APIs, JWT

### Data Science & Machine Learning

Data Cleaning & EDA, Feature Engineering, Supervised Learning, Model Evaluation, NLP, Probability & Statistics

### Data Engineering & Cloud

Docker, Hadoop, AWS, Azure

### Databases

MongoDB ,SQL

## PROJECTS

### Cuisinise | Python, FastAPI, NLP, Machine Learning, React, Node.js, MongoDB, Docker

2025

- Built an agent-based food intelligence platform integrating 6 ML microservices for real-time food discovery and recommendation.
- Designed a FastAPI coordinator to orchestrate parallel model calls based on inferred user intent.
- Integrated LLM-based summarization to aggregate insights from multiple data sources.
- Implemented a MERN backend with JWT authentication and persistent chat storage.

### RainCheckAUS | Python, scikit-learn, XGBoost, FastAPI, React, Docker

2025

- Developed a machine learning system to predict rainfall probability for Australian cities using historical weather data.
- Trained and evaluated Logistic Regression and XGBoost models with feature engineering and performance comparison.
- Deployed trained models via a FastAPI inference service and integrated predictions into a full-stack application.
- Containerized the system using Docker Compose for reproducible deployment.

### CeylonTopGuide | React, Node.js, Express, MongoDB

2025

- Designed and developed a tourism and travel discovery platform providing curated destination information across Sri Lanka.
- Implemented backend APIs to manage destination data, user interactions, and content retrieval.
- Integrated dynamic data fetching and filtering to improve content discoverability and user experience.
- Deployed a full-stack web application with scalable architecture and persistent data storage.

## EDUCATION

### Bsc.(Hons) Information Technology Specializing in Data Science (2023 - Ongoing)

Undergraduate - Sri Lanka Institute of Information Technology  
GPA: 3.66

### G.C.E A/L – 2022

S.Thomas' College Bandarawela (2009 - 2022)  
Physical Science Stream  
Results : 3 S Passes

## CERTIFICATIONS

- AWS Certified Cloud Practitioner
- Microsoft Azure Cloud Fundamentals

## ADDITIONAL SKILLS

Adobe Photoshop, Premiere Pro, After Effects, Audition, Ableton, TouchDesigner

## REFERENCES

### Piumini Ranasinghe

Software Engineer, WSO2, Sri Lanka

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### RM Nandawathi

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