

# VISHAL S

Coimbatore, India

+91 8825580595 ✉ [vishalatmadurai@gmail.com](mailto:vishalatmadurai@gmail.com) [linkedin.com/in/vishalthehuman](https://www.linkedin.com/in/vishalthehuman) [github.com/vishalthehuman](https://github.com/vishalthehuman)

## Education

### B.Tech in Computer Science and Engineering (Artificial Intelligence)

CGPA: 8.76

Amrita School of AI, Amrita Vishwa Vidyapeetham, Coimbatore

2022 - Present

### High School Diploma

SSLC: 99.2% , HSC: 94.16%

S.E.V Matriculation Higher Secondary School, Madurai

2017 - 2022

## Work Experience

### Cisco ThingQbator (Nasscom Foundation)

10/2023 - 03/2024

Software Developer Intern - Smart Agro Solutions (Part-time)

Coimbatore, Tamil Nadu

- Developed **regression models** (XGBoost, Decision Tree, Random Forest) for **predicting water needs** in **Coconut plantations**, achieving a MAE of  $\pm 1.5$  liters per acre and  $R^2$  of **0.87**, reducing water wastage by **18%**.
- Designed a user-friendly mobile application allowing farmers to **remotely monitor coconut growth** and receive **real-time alerts**, increasing field management efficiency by **300%**.

## Projects

TaxEase.AI | Google Cloud, Vertex AI Agent, Python, Next.js, Selenium, Flask

[Video](#) | [Github](#)

- Built an **AI assistant** for **US tax filing** with **Vertex AI** and a Datastore knowledge base on **Google Cloud**, reducing **IRS** tax form completion time by **70%** and improving compliance by **25%**.
- Created **interactive Q&A** and **form-filling features** with **OpenAPI** and **Gemini-1.0-Pro-001**, achieving a very high data retrieval accuracy.

AssetBlock: Asset Management System | Firebase, PostgreSQL, Python, Streamlit

[GitHub](#)

- Developed **AssetBlock**, securing **asset tracking** with **SHA-256 encryption** and **Firebase authentication**, reducing unauthorized access incidents by **40%**.
- Crafted a **user-friendly interface** that facilitated seamless **asset transfers** and streamlined **management and tracking** for clients and administrators.

LeetPath: Personalized LeetCode Question Recommender | Next.js, Flask, Go, MongoDB

[Live Demo](#) | [GitHub](#)

- Engineered a **graph-based recommendation system** utilizing Markov Random Fields and Gibbs Sampling to analyze user interactions and question similarities, resulting in a **25%** improvement in problem-solving efficiency.
- Developed an **interactive dashboard** displaying user statistics and personalized question recommendations, leading to a **20%** reduction in time spent searching for relevant problems.

## Achievements

- Finalist in AI Hackathon with Meta Llama by Meta.** Participated in **20+ Hackathons**.
- Solved over **850+ problems** on LeetCode with a max contest rating of **1779**. Profile: [leetcode.com/VishalTheHuman/](https://leetcode.com/VishalTheHuman/)
- Secured **43rd Position (Top 0.2%)** in **Amazon ML Challenge 2024** among **22,000+ teams (74,840 participants)**.
- Selected for **Amazon Machine Learning Summer School 2024**, among **2,800** chosen out of **83,000** applicants.

## Technical Skills

**Programming Languages:** Python, Java, C++, Go, HTML, CSS, SQL, Javascript

**Frameworks / Libraries:** ReactJS, NextJS, Flask, FastAPI, NodeJS, JavaFX, Selenium, Pytorch, Gin, Huggingface

**Technologies:** Firebase, Google Cloud, PostgreSQL, GitHub, Qdrant, AWS, MongoDB, Figma

**Others:** Git, DSA, OOPs, Linux, Generative AI, Machine Learning, Computer Networks

## Positions of Responsibility

- Technical : Co-Head** | IETE Amrita October 2024 - Present
- Technical : Co-Head** | TEDx Amrita University May 2024 - Present
- Public Relations : Co-Head** | Anokha Techfest December 2023 - October 2024
- Web and Technical Team : Member** | Amrita Model United Nations Society [🔗](#) March 2024 - July 2024

## Certificates

- Python For Everybody - Specialization** | [University of Michigan](#) [🔗](#) October 2023
- Data Scientist Professional with Python** | [Datacamp](#) [🔗](#) August 2023
- Generative AI with Large Language Models** | [DeepLearning.AI](#) [🔗](#) January 2024