

Puvanakopis Mehanathan

AI Intern

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About Me

Software Engineering undergraduate specializing in AI Engineering, Agentic AI Systems, Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), and Full-Stack AI Applications. Experienced in building multi-agent systems, AI-powered assistants, workflow automation solutions, and production-ready AI applications using Python, FastAPI, LangChain, LangGraph, Vector Databases, and modern LLM frameworks. Passionate about transforming cutting-edge AI research into scalable real-world products.

Education

BSc(Hons) Software Engineering 2023 – Present
Sabaragamuwa University of Sri Lanka GPA: 3.37 / 4.00

- Specialization: Artificial Intelligence, AI Agents & Web Development
- Relevant Coursework: Machine Learning, Deep Learning, Natural Language Processing, Web Development, Software Engineering, Generative AI, Data Structures & Algorithms

G.C.E. Advanced Level (Physical Science Stream) Jan 2019 – Feb 2021
BT/PD/Kaluthavalai Maha Vidyalayam (National School)

Experience

Full Stack Developer Feb 2024 – Dec 2024
Fiverr (Freelance)

- Developed responsive full-stack web applications using React.js and Next.js with backend development in Node.js and Express.js.
- Built REST APIs, authentication systems, and scalable digital solutions for modern web platforms.
- Optimized UI performance and delivered client-focused solutions across multiple domains using modern development practices.

Skills

- **Programming Languages:** Python, JavaScript, Java, C
- **Databases:** MySQL, MongoDB, PostgreSQL, ChromaDB, Pinecone
- **AI / ML:** Large Language Models (LLMs), Agentic AI Systems, Retrieval-Augmented Generation (RAG), Prompt Engineering, OpenAI API, LangChain, LangGraph, Hugging Face Transformers, Fine-tuning, Embeddings, Semantic Search
- **Data Science & Analysis:** Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, Data Cleaning, Exploratory Data Analysis (EDA), Classification, Regression, Model Evaluation, Data Visualization
- **Web & API Development:** React.js, Next.js, Tailwind CSS, FastAPI, Nodejs, Express js, Flask, REST APIs
- **DevOps & Tools:** Git, GitHub, Docker, API Integration, Web Scraping, Postman
- **AI Development Tools:** GitHub Copilot, ChatGPT, Claude Code, Cursor, OpenAI Codex, OpenAI API

Projects

iStore — Conversational Shopping Assistant May 2026 – Jun 2026

- Built a full-stack e-commerce platform with an integrated conversational AI assistant that enables end-to-end shopping workflows including product discovery, cart operations, wishlist management, and order tracking through natural language.
- Designed and implemented a LangChain-based multi-agent system featuring a router agent that dynamically delegates user intents to specialized product, cart, order, and wishlist agents via tool-calling orchestration.
- **Tech Stack:** Next.js, FastAPI, MongoDB, LangChain, Groq LLM, Python, Tailwind CSS

CampusEase - University Accommodation & Vehicle Rental Platform

Apr 2025 – Jul 2025

- CampusEase is a full-stack platform that connects verified university students, staff, and property owners for secure accommodation and vehicle rentals within a trusted ecosystem.
- It integrates a Retrieval-Augmented Generation (RAG) AI assistant that leverages platform data to deliver personalized recommendations and contextual user support.
- *Tech Stack:* React.js, Tailwind CSS, FastAPI, MongoDB, ChromaDB, LangChain, Embeddings, Groq API

Smart Data Analysis AI Agent - Multi-Agent AI System

Apr 2026 - May 2026

- Built a multi-agent analytics platform that automates data summarization, insight generation, visualization creation, and report production from uploaded datasets.
- It enables users to instantly explore trends via interactive charts, AI-generated insights, and downloadable professional PDF reports.
- *Tech Stack:* Python, Streamlit, Pandas, NumPy, Plotly, LangChain, Groq API, FPDF

Retail Customer Analytics Dashboard | Business Intelligence & Sales Insights

Jun 2026

- Conducted exploratory data analysis on retail sales, customer, and product data to identify purchasing patterns, revenue drivers, customer segments, and profitability trends.
- Developed interactive business intelligence dashboards and analytical reports that delivered actionable insights on sales performance, discount effectiveness, regional trends, and customer behavior.
- *Tech Stack:* Python, Pandas, NumPy, Matplotlib, Seaborn, SQL, Power BI, Jupyter Notebook

Certificates

- **IBM RAG and Agentic AI Professional Certificate**

Coursera | IBM

Link
 - **IBM AI Developer Professional Certificate**

Coursera | IBM

Link
 - **Google Advanced Data Analytics Professional Certificate**

Coursera | Google

Link
 - **Crash Course on Python**

Coursera | Google

Link

Volunteering

- IEEE Student Branch of SUSL

Active member

Member
- IEEE WIE Student Branch Affinity Group of SUSL (PearlHack)

March 2025

Finance Team
- IEEE Student Branch of SUSL

February, 2025

Program Team Member

References

- B. Gobihanath**
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