

Vedant Lahane

vedantanillahane@gmail.com | 7447335096 | github.com/vedantlahane | linkedin.com/in/vedant-lahane
vedantlahane.vercel.app

Projects

QnA (Multi-Agent Q&A System using LLMs)

July 2025 – Present

- Built an **async backend** using **FastAPI** to process **natural language queries** across **SQL, CSV, and document** sources using a modular API structure.
- Integrated **LangChain** and **LangGraph** to implement **multi-agent query routing** powered by **GPT-4** for structured and unstructured data.
- Designed **vector search** flow using **OpenAI embeddings** and **ChromaDB** with support for **similarity search** over tabular and document data.
- **Containerized** and **deployed** backend on **AWS** using **Docker**, ensuring **reproducibility and scalability** in production-like environments.
- **Technologies used:** FastAPI, Python, SQLAlchemy, SQL, LangChain, LangGraph, OpenAI, ChromaDB, Docker, AWS

ShoeMarkNet (E-commerce Platform with CI/CD and Containerization)

March 2024

- Engineered **modular backend** using **Node.js** and **Express** with **JWT authentication, RBAC, and secure routes** for users, products, and orders.
- Automated **CI/CD pipeline** with **Jenkins** and **Docker Compose**, orchestrating **multi-service deployment** to staging and production environments.
- Integrated **Redux Toolkit** in the frontend with **async thunks** and toast-based UX tied to API states for cart, wishlist, and order flows.
- Designed and implemented a **robust product catalog management system** in the backend, allowing for efficient addition, modification, and categorization of products.
- **Technologies used:** Node.js, Express.js, MongoDB, JWT, React.js, Redux Toolkit, Jenkins, Docker, Docker Compose, Tailwind CSS

Skills

Programming Languages:	Java, JavaScript, TypeScript, Python, SQL, HTML, CSS
Frameworks & Libraries:	React, Node.js, Express.js, Angular, Redux, Shadcn, Tailwind CSS
AI/ML & LLM Technologies:	Prompt Engineering, RAG, Tensorflow, ChromaDB, LangChain
Cloud & DevOps:	AWS, Docker, Docker Compose, Jenkins, CI/CD, GitHub Actions, Puppet, Ansible
Development Tools:	Git, GitHub, Postman, Vite, Vercel, Render, Linux
Databases & Systems:	MongoDB, MySQL
Soft Skills:	Problem-solving, Teamwork, Adaptability, Creativity

Achievements

- Solved **300+** Data Structures & Algorithms problems on **LeetCode** and **GeeksForGeeks**.

Certifications

Udemy - Deep Learning with TensorFlow 2	July 2025
NPTEL – Cloud Computing	October 2024
Coursera – Generative AI with Large Language Models	April 2024
GeeksForGeeks – Data Structures and Algorithms	August 2023

Education

Lovely Professional University , B.Tech in Computer Science and Engineering CGPA: 7.89	Sept 2022 – July 2026 Jalandhar, Punjab
Vivekananda Junior College , Class XII Percentage: 92.00%	June 2019 – May 2021 Nagpur, Maharashtra
Gurukul Public School , Class X Percentage: 84.20%	June 2017 – May 2019 Paratwada, Maharashtra