

MANAS BAGUL

☎ +91-7595961008 ✉ manas.m.bagul@gmail.com 🔗 LinkedIn 🐙 GitHub

Education

Vishwakarma Institute Of Technology, Pune

B.Tech in Computer Engineering (AIML)

2023 – Present

CGPA: 8.81/10

Experience

Passion Infotech Pvt. Ltd., Pune

Jan 2025 – July 2025

Software Developer Intern

- Built an AI-powered simulation platform using FastAPI, LLaMA3, ChromaDB, and Retrieval-Augmented Generation (RAG).
- Implemented production-grade backend APIs, authentication, and data pipelines; integrated evaluation/scoring (KALKI) for generated content.

Projects

UrbanFlow — Smart Traffic Management System [GitHub]

June 2025

- Full-stack system built with Next.js, React, GraphQL, Node.js, Sequelize, and MongoDB to optimize traffic signal timing and monitor flows.
- Implemented Apollo GraphQL server with session-based authentication, real-time dashboards, and analytics-driven route optimizations.

AI-based Inventory Management System [GitHub]

May 2025

- Developed a Django-based B2B inventory platform with role-based access control, product/sample workflows, expiry alerts, and quotation generation.
- Engineered REST APIs, scheduled background jobs for alerts, and admin analytics dashboards to track stock, expiry, and supplier quotations.

Cultural Bridge Game (AI Industry Project) [GitHub]

July 2025

- Built FastAPI backend integrating LLaMA3 + ChromaDB to implement RAG-based interactive story simulations for cultural learning scenarios.
- Designed evaluation pipelines with ethical-reasoning modules and KALKI scoring; collaborated with industry partners on deployment and testing.

Technical Skills

Languages: C++, Python, JavaScript, TypeScript

Frontend: React, Next.js, TailwindCSS

Backend: Node.js, Express.js, Django, FastAPI

Databases: MongoDB, PostgreSQL, MySQL

Tools: Git, Docker, Postman, Linux

Concepts: Data Structures & Algorithms, System Design (SDE-1), RBAC

Awards & Achievements

- **Winner — InnoHack 2.0** (National-level hackathon)
- **Bajaj Finserv HackRx 2025** — All India Rank **130**
- **LeetCode:** Contest Rating: **1687**
- **CodeChef:** Highest Rating: **1452 (3* Coder)**
- **CodeForces:** Rating: **1274 (Pupil)**

Research & Publications

Document Verification using Convolutional Neural Networks	ICIVC
Traffic Management and Signal Manipulation system using ML	IEEE
UrbanFlow - An Integrated Smart Traffic Management System	IEEE ASIANCON 2025

Position of Responsibility & Volunteering

ICON Club	Aug 2024 – Present
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Project Unit Secretary

- Managed and coordinated industry–academia collaborative projects; facilitated mentor–student communication and milestone tracking.
- Oversaw documentation, resource allocation, and technical-review sessions to ensure timely delivery.

Student Developer Program Club, VIT Pune	Jan 2025 – Present
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Event Coordinator

- Organized developer-focused workshops, hackathons, and speaker sessions; handled logistics, registrations, and volunteer coordination.

Google Developer Student Club, VIT Pune	May 2024 – Present
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AI/ML Team Member

- Collaborated on AI-driven solutions, led peer workshops, and mentored students on ML/DL fundamentals.