

# Aditya Bavadekar

[GitHub](https://github.com/adityabavadekar) | [LinkedIn](https://www.linkedin.com/in/adityabavadekar) | [Email](mailto:bvkraditya@gmail.com)

## EDUCATION

**Vishwakarma Institute of Technology**  
*Bachelor of Technology, Computer Science and Engineering (AI)*

*Pune, India 2024 – 2028*  
*CGPA: 9.1*

## PROJECTS

**Agentd** [GitHub](#) [Live Demo](#)

- Built a scalable multi-agent AI system using Python & Google ADK to automate problem-solving workflows.
- Designed sequential parallel agent pipelines for research, planning, and content generation.
- Exposed REST APIs for agent interactions and integrated Image Generation & Google Search tools.
- Backend deployed on Google Cloud Run with containerized workflows and cloud storage.
- **Tech stack:** Python, Flask, Google ADK, Imagen, GCP Cloud Run, Cloud Storage, Google Search APIs

**Hackfinder** [Live Demo](#)

- Developed a hackathon discovery platform with advanced filtering (location, theme) and server-side rendering using Next.js.
- Optimized data handling by reducing redundant queries by 35% with IP-based rate limiting, caching in PostgreSQL, and automated updates via cron jobs.
- **Tech stack:** Next.js, TailwindCSS, PostgreSQL, NextAuth, AWS EC2

**DevNavigator** [Video demo](#)

- Built a full-stack web platform that generates personalized learning roadmaps using LLMs with a **Retrieval-Augmented Generation (RAG)** pipeline and **ChromaDB**.
- Developed **Flask-based backend APIs in Python** and managed user roadmap data using **PostgreSQL**.
- Implemented secure authentication with **NextAuth.js** and deployed a production-grade **Next.js frontend**.
- **Tech stack:** Next.js, TypeScript, Flask, Python, Prisma, PostgreSQL, ChromaDB, NextAuth.js

**NAMASTE-ICD11 Microservice** [GitHub](#)

- Developed a backend using **Node.js, Express, and TypeScript** for EMR and admin portal.
- Implemented secure **OAuth 2.0** authentication for healthcare professionals and admins.
- Built and deployed **RESTful APIs**, integrating Redis for caching/rate-limiting and PostgreSQL for relational data.
- Containerized services with **Docker** and monitored system health via **Prometheus** and **Grafana**.
- **Tech stack:** Node.js, TypeScript, Express, Redis, PostgreSQL, Docker, Prometheus, Grafana, OAuth 2.0

## TECHNICAL SKILLS

- **Languages:** C, C++, Python, Java, JavaScript, TypeScript, Kotlin, SQL, Bash
- **Frameworks:** Flask, FastAPI, ReactJs, Next.js, Zod, Socket.io, Node.js, Express, Bootstrap
- **Tools and Platforms:** Docker, Kubernetes, Git, GitHub, AWS, Google Cloud, Firebase, Linux
- **Databases & ORM:** PostgreSQL, MySQL, Prisma ORM, Room SQLite, MongoDB
- **Libraries:** NumPy, Pandas, NLTK, Matplotlib, Tensorflow

## ACHIEVEMENTS

- Winner – **Hack Attack, Zavion '24 Hackathon**, Christ University, Pune
- Winner – **Software Hackathon, Crescendo, VIT Pune**
- Runner-Up – **TechFiesta International Hackathon, PICT**
- Finalist – **Pentathon 2025 CTF**: National Cyber-Security challenge organized by NCIIPC and AICTE
- Mentor, **Script Winter of Code 2025 (SWoC)**

## VOLUNTEERING

- App Development Coordinator, **Google Developer Student Club, VIT Pune**
- Web Development Coordinator, **Microsoft Learn Student Club (MLSC), VIT Pune**