

# Vinayak Mohanty

9324889443 | [vinayak97696@gmail.com](mailto:vinayak97696@gmail.com) | [linkedin.com/in/vinayak9769](https://linkedin.com/in/vinayak9769) | [github.com/vinayak9769](https://github.com/vinayak9769)

## EDUCATION

---

**Thadomal Shahani Engineering College**  
*Bachelor of Engineering (B.E.) in Computer Engineering*

Mumbai, MH  
Aug 2023 – Jun 2027

## EXPERIENCE

---

### Contractor

Feb 2025 – May 2025

*Pioneer Edtech*

Mumbai, MH

- Architected a parallel **LangChain**-powered system leveraging multiple models that competitively generate and evaluate content, reducing generation pipeline time by **~83%** (from 1.5 minutes to ~15 seconds).
- Designed an asynchronous, multilingual content generation pipeline with **FAISS** vector search using **Django REST** and **PostgreSQL**, and containerized and deployed the system on **AWS EC2** using **Docker** for scalable, production-ready deployment.

### Full Stack Intern

Jun 2024 – Aug 2024

*VisionX Technologies*

Mumbai, MH

- Developed and optimized a **Retrieval-Augmented Generation (RAG)** model solution using **LangChain**, improving data retrieval and automating response generation processes, leading to a **30%** increase in system efficiency.
- Seamlessly integrated the **RAG** model with **WhatsApp**, streamlining communication workflows and enhancing user interaction capabilities, supporting over **1,000** daily interactions.

## PROJECTS

---

### Infrastructure-Aware Load Testing Platform | *Go, Kubernetes, Docker, PostgreSQL*

July 2025

- Built a cloud-native load testing platform using **Go**, **Kubernetes**, and **Docker**, enabling users to configure and run isolated performance tests via dynamic test runners deployed as **K8s Jobs**; supported concurrency control, **RPS** throttling, and real-world traffic simulation.
- Engineered a backend controller for orchestration and live metric streaming via **SSEs**, leveraging **PostgreSQL** for storing users, test metadata, and results; deployed the platform on **Azure** with **Traefik** as the ingress controller for dynamic routing and service discovery.

### HackVerse – A Hackathon Organizing Platform | *Django, React, WebSockets, LangChain*

Jan 2025

- Developed a full-stack hackathon organizing platform using **Django REST Framework** and **React**, featuring AI-powered resume scoring and **Retrieval-Augmented Generation (RAG)**-GitHub matchmaking for efficient participant selection and intelligent team formation.
- Implemented real-time communication via **WebSockets** and video calling using **WebRTC**, along with a host-your-own-project **CI/CD** pipeline, enabling seamless collaboration and automated project deployment.

## LEADERSHIP

---

### TSEC Codecell

May 2024 – Apr 2025

*Junior Committee Member*

Mumbai, MH

- Coordinated TSEC's flagship hackathon, **TSEC Hacks**, attracting over **300** participants and fostering innovation through competitive coding and collaborative problem-solving.

## TECHNICAL SKILLS

---

**Languages:** Python, Go, C/C++, Java, JavaScript, Dart, SQL

**Frameworks:** Flask, Django, FastAPI, LangChain, Express.js, Gin

**DevOps & Cloud:** CI/CD with GitHub Actions, Docker, Kubernetes, Google Cloud Platform, AWS, Azure

## ACHIEVEMENTS

---

- **Competitive Programming:** Achieved the title of **Specialist** on **Codeforces** and a rating of **1700** on **CodeChef**, demonstrating strong problem-solving and algorithmic skills.
- **Hackathons:** **6**× hackathon winner and **12**× finalist, recognized for innovative solutions and technical excellence.