

# Rushikesh Phadtare

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Portfolio: <https://rushikeshphadtare.vercel.app/>

## Professional Summary

Aspiring Backend Developer with hands-on experience in Python, RESTful APIs, and full-stack web application development. Skilled in building and integrating backend services with minimal guidance. Eager to contribute to a fast-paced startup like Zenskar where ownership, learning, and impactful work are key values. Familiar with Linux, Docker, and shell scripting. Looking forward to solving real-world challenges and scaling backend systems in a collaborative environment.

## Technical Skills

Languages: Python, JavaScript, Java, SQL

Tools/Frameworks: FastAPI, Flask, Node.js, Express.js, Restfull API Development,

Databases: MySQL, MongoDB,

Cloud/AI: AWS, Docker, CI/CD Concepts

Others: Git, GitHub, OOP, DSA, ReactJs, HTML, CSS,

## Key Projects

**Lightweight Feedback System** | FastAPI, SQLAlchemy, Pydantic, JWT, SMTP, SQLite, React.js, Redux Toolkit, Tailwind CSS

- Developed a full-stack internal feedback system with **role-based access**, **email verification**, and **secure JWT-based authentication**.
- Built modular REST APIs using FastAPI with **async operations**, **ORM (SQLAlchemy)**, and **environment-specific configurations**.
- Implemented features like **feedback requests**, **smart tagging**, **sentiment analysis**, and **real-time toast notifications**.
- Containerized backend with **Docker** and integrated **Redux-Persist** for seamless UX across sessions.

**Stock-Streat** | Django, HTML, CSS

- Built a gamified platform for users to learn about the stock market.
- Integrated the yfinance API to fetch and display real-time stock data.
- Added a blog section where beginners can gain knowledge about the stock market and authors can publish their posts.
- Developed a feature for creating rooms and a leaderboard for students to track their performance.
- Designed a user-friendly interface using HTML, CSS, and Bootstrap for seamless website interaction.

**AI-Powered NLP Assistant** | Python, OpenAI API, Gemini AI, Hugging Face, Streamlit, FAISS, PyTorch, Transformers, Google Generative AI

- Developed a **multi-functional AI assistant** integrating **Large Language Models (LLMs)** to perform **text summarization**, **sentiment analysis**, **named entity recognition (NER)**, **question answering**, **code generation**, and **code review**.
- Implemented **multi-turn conversational context handling**, improving the coherence of responses across interactions.
- Built a **Retrieval-Augmented Generation (RAG)** system using **FAISS** for efficient document search and semantic retrieval.
- Designed a **content moderation system** utilizing **pre-trained toxicity classifiers** and Gemini API for filtering harmful content.
- Integrated **caching and logging mechanisms** to optimize response time and API usage.
- Created **unit tests** using PyTest to validate NLP functionalities, achieving **90%+ test coverage**.
- Developed a **Streamlit-based UI**, allowing users to interact with the assistant via an intuitive web interface.

## Experience

**Full Stack Developer Intern- Ttretta Pvt Ltd** – Mumbai (Remote)

**Mar 2025 – Present**

- Developed and maintained secure **Flask-based REST APIs** to power user authentication, financial metric computations, and AI chatbot interactions, aligned with JWT security protocols.
- Engineered backend logic for a **Financial Health Dashboard**, including real-time computation of **net worth**, **liquidity ratios**, and **investment scoring**, ingesting Excel-based user data.
- Built a document-aware **LLM-powered chatbot** using **Gemini API**, **LangChain**, **FAISS**, and **Hugging Face embeddings**, supporting semantic document retrieval and contextual Q&A.
- Managed **backend session tracking**, **contextual logging**, and **error handling**, enabling better observability and debugging of deployed services.
- Orchestrated modular API routing, utility functions, and schema validation for scalable backend architecture.
- Collaborated closely with the frontend team (React.js + Tailwind CSS) to support dynamic dashboards and real-time insights via backend data endpoints.
- Implemented performance profiling for long-running processes and optimized async flows in the Flask server to reduce latency under load.

**Research Participation | IIT Bombay Centre for Educational Technology (CET), IIT Bombay**

**Feb 2025**

- Participated in a research study on **Socially Shared Metacognitive Regulation (SSMR)** in collaborative software design.
- Contributed to designing learning solutions for constrained learners.
- Gained hands-on experience in **educational technology research & collaborative problem-solving**.

## Education

B.E. in Computer Engineering Rajiv Gandhi Institute of Technology, Mumbai

2021 – Present

## Achievements

Finalist – Smart India Hackathon 2023

Solved 500+ DSA problems (LeetCode, GFG)

Selected for SSB – Indian Army & Navy

Active member – GDSC, CodeCell, and CESS RGIT