Shashank Upadhayay

Email: 23bcp067@sot.pdpu.ac.in | GitHub: github.com/ https://github.com/padhayay88 | B.Tech in Computer

Engineering, PDEU | Graduation: 2027

Career Objective

Aspiring Software Engineer passionate about building intelligent systems and backend architectures. Strong interest in AI-driven automation, scalable API design, and modern web technologies.

Technical Skills

Languages: Python, Java, JavaScript, HTML/CSS, SQL
Frameworks: FastAPI, Flask, React, Node.js
AI/ML Tools: Whisper, ElevenLabs, Azure Cognitive Services, OpenAI API
Databases: MongoDB, PostgreSQL, SQLite
DevOps & Tools: Docker, Git, REST APIs, Postman, FFmpeg
Other: Chrome Extensions, Web Automation, API Design, Cloud Deployment (Render, Railway) Projects

Collink – College Predictor API

FastAPI | Python | REST | Docker
Built a backend API for college prediction based on JEE, NEET, and IELTS ranks using realworld datasets and RESTful principles.
- Developed intelligent rank-prediction logic with fuzzy search optimization.
- Structured modular, maintainable endpoints with FastAPI for scalability.
- Containerized the service using Docker and deployed seamlessly on Render.

Voice Assistant(Nova)

Developed "Nova," an AI-powered Windows voice assistant using Python, Tkinter, and Speech Recognition, featuring voice control for apps, files, web tasks, reminders, and notes, with OpenAI/Gemini integration and an interactive animated GUI.

Catch Patient Engagement(CPA)

Developed "CATCH Patient Engagement," a multilingual oncology platform using FastAPI, Node.js, and SQLite with AI insights, health tracking, mental health screening, and multilingual chat for improved patient engagement.

Education

Pandit Deendayal Energy University (PDEU) – B.Tech in Computer Engineering Expected Graduation: 2027

Achievements & Interests

- Built full-stack and AI-integrated tools from scratch for real-world use cases.
- Deep interest in AI automation, backend design, and intelligent systems.
- Exploring open-source and low-code AI automation work lows.