Aasthayuli

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Portfolio | GitHub | LinkedIn | LeetCode

Summary

Final-year Computer Science student with practical experience in building web-based applications using Python, REST APIs, and databases. Have worked on frontend development with React and backend development using Flask. Looking for an entry-level Full Stack/Software Developer role.

Education

Global Institute of Technology and Management, Gurugram Oct 2022 - Present
B.Tech - Computer Science and Engineering | CGPA: 8.5

Jawahar Navodaya Vidyalaya, Saharsa, Bihar Aug 2014 - Apr 2021
Class XII: 86.6% | Class X: 95.8%

Experience

Python Programming Intern Jun 2025 - Aug 2025
GRRAS Solutions Pvt. Ltd., Jaipur | Certificate

- Completed 3-month internship focusing on Core Python, Advanced Python, Flask, and SQL
- Developed hands-on projects involving REST APIs, database integration, and backend development
- Gained practical experience in building production-ready applications with Flask framework

Technical Skills

- **Programming:** Python, Java, C, SQL
- **Frontend:** React JS, HTML, CSS, JavaScript, Tailwind CSS
- **Backend & APIs:** Flask, REST APIs
- **CS Fundamentals:** Data Structures, OOPs, OS, DBMS(MySQL), Machine Learning(Basics)
- **Tools:** Git, GitHub, VS Code, PyCharm

Projects

•**Grocery Inventory Management System with Barcode & Expiry Tracking** | Source Code | Live Demo
– Built full-stack inventory system with Flask REST API (26 endpoints), React frontend, and MySQL database
– Implemented JWT authentication with role-based access control and automated EAN-13 barcode generation
– Developed expiry tracking with color-coded alerts (7/30-day warnings) and real-time stock monitoring
– Deployed on Render (backend), Netlify (frontend), Aiven (MySQL), and Cloudinary (image storage)
– **Tech Stack:** Flask, React, MySQL, JWT, Cloudinary, Tailwind CSS, Python-Barcode, Axios

• **AI-Powered Water Quality Classification System** | Source Code | Live Demo
– Built CNN-based image classifier using **ResNet18 transfer learning** to detect Clean, Muddy, and Polluted water.
– Trained images with data augmentation techniques for robust model performance.
– Implemented video processing pipeline using OpenCV for frame-by-frame water quality analysis.
– Interactive Web app deployed using Streamlit with real-time prediction display and class distribution visualization.
– **Tech Stack:** PyTorch, ResNet18, OpenCV, Streamlit, Python.

• **AI Voice Assistant** | Source Code | Live Demo
– Built real-time voice-to-voice assistant with React 19 and Flask that integrates Groq AI (LLaMA 3.3 70B)
– Implemented speech-to-text (Google SR), AI conversation, and text-to-speech (gTTS) pipeline
– Developed custom audio recording/playback using MediaRecorder API with real-time monitoring
– **Tech Stack:** React 19, Vite, Tailwind, Axios, Flask, Groq AI, Google SR, gTTS, PyDub.

Certificates

- Programming in Java - NPTEL (IIT Kharagpur) : scored 75% in offline Examination
- DSA Using Java - NPTEL (IIT Kharagpur): scored 78% in offline Examination
- DBMS - NPTEL (IIT Kharagpur): scored 77% in offline Examination
- 100 Days of Code: Python - Udemy

Achievements

- Solved **120+ problems** on **LeetCode**.
- Built and deployed production-ready applications with focus on scalable, clean code.