Swayam Adhana

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Summary

B.Tech CS student specializing in AI/ML and backend development. Experienced in FastAPI, Firebase, React/Next.js, and building ML applications. Strong fundamentals in CNNs, classical ML, and deployment-ready engineering.

Education

GLA University | Mathura
B.Tech in Computer Science (AI/ML/IOT Specialization) | 04/2027

- Currently completing courses in computer science while maintaining a steady CGPA of 7.2

Skills

Languages: Python, JavaScript
ML/AI: Scikit-learn, CNNs, Grad-CAM, EDA, Model Optimization, Transfer Learning
Frameworks: FastAPI
Web Development: HTML, CSS, JavaScript, REACT, NEXT.js
Databases / Cloud: Firebase Realtime DB, Firestore
Tools: Git, GitHub, VS Code
Other: API Integration, Debugging,Deployment Basics

Projects

Histopathology Cancer Detection System — ML + BackendTech: Python, FastAPI, CNN, Grad-CAM, Git

- Built an end-to-end ML inference backend using FastAPI to serve CNN predictions for cancer tissue classification.
- Implemented Grad-CAM heatmaps for model explainability and integrated them into the API responses.
- Resolved deployment issues, optimised inference flow, and structured complete API documentation.

Link - HistoAI - Cancer Detection

Personal Portfolio Website — React + Next.js

- Built and deployed modern portfolio using React, Next.js, and custom UI components
- Implemented animations, routing, and responsive layouts
- Designed clean recruiter-friendly sections showcasing projects & contact details

Portfolio: Portfolio Link :)

Leadership & Club Experience

Football & Basketball Club — Core Member

- Organized weekly practice sessions
- Coordinated inter-college participation
- Managed team communication & logistics

Technical Committee — Volunteer

- Helped juniors debug ML/CS problems
- Assisted in workshops & coding events
- Contributed to documentation + demos