

# SWASTIK GAHUKAR

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## PROFILE

Final year B. Tech student specializing in AI and building scalable LLM and AI-powered systems. Possessing proven expertise in Python, FastAPI, FLASK, and Machine Learning, I have successfully developed complex, Flask-based web applications. Seeking AI and software development roles to apply high proficiency in deep learning, robust system design, and complex problem-solving.

## EDUCATION

Degree	Institute and Location	Percentage / CGPA	Year
B. Tech in Artificial Intelligence	G H Rasoni College of Engineering and Management, Nagpur	CGPA: 7.21	2022-2026
Higher Secondary (12th Grade)	Priya Vidya Vihar English School and Jr. College, Nagpur	81.67%	2022
Secondary School (10th Grade)	School of Scholars, Wanadongri, Nagpur	71.6%	2020

## PROJECTS

### Multi-Agent System (MAS) with Dynamic Routing | [LINK](#)

- Engineered a FastAPI-based MAS orchestrated by Gemini (Flash) for dynamic query routing to specialized RAG and API agents.
- Designed a robust, mixed-initiative controller logic that prioritizes deterministic keyword checks to ensure mandatory routing.
- Technologies Used: FastAPI, Python, Gemini (Flash), LLM, FAISS RAG, Docker, DDGS, ArXiv API, and HTML/CSS for the MAS.

### AI Shield – AI Fake Media Detector | [LINK](#)

- Developed a Flask-based AI Shield web app to detect and classify real vs. AI-generated images/videos via a custom ML model.
- Designed an interactive Bootstrap UI that highlights detection results (green = real, red = AI) with fast, frame-by-frame analysis.
- Technologies Used: Flask, Python, Deep Learning, Jinja 2, OpenCV, HTML/CSS/Bootstrap (UI), JavaScript, and Media Pipe.

### Fitness Tracker Web App | [LINK](#)

- Built a secure Flask-based fitness application featuring user login, dynamic dashboards, and personalized calorie tracking.
- Designed an interactive Bootstrap UI for food/goal tracking, implementing accurate calorie calculation using BMI and activity level.
- Technologies Used: Flask, Python, HTML/CSS/Bootstrap (UI), JavaScript, AJAX, and Mifflin-St Jeor Equation (Calculation Logic).

## SKILLS

Technical Stack: Python, Flask, FastAPI, HTML, CSS, JavaScript, AI/ML, MongoDB, SQL, LLM, NLP, CNN, React.js, Next.js, TypeScript.

Tools and Technologies: VS Code, PyCharm, GitHub, Docker, Git, Google Colab, Vercel, Forage.

## CERTIFICATIONS

Python Programming Course by Binary Brains	Dec 2023 – Feb 2024
AWS Solutions Architecture Job Simulation by Forage	May 2025
Deloitte Data Analytics & Forensic Technology Job Simulation by Forage	July 2025
Introduction to Data Analytics by Simplilearn	Sept 2025
Generative AI Fundamentals by Simplilearn	Sept 2025

## EXPERIENCE

### Web Development Intern | InternPE | Remote

May 2025 – Jun 2025

- Improved code modularity and boosted user engagement by 25% through clean, scalable HTML, CSS, and JavaScript.
- Assisted in building and deploying responsive web applications, enhancing UI/UX and cross-browser compatibility.

## ACHIEVEMENTS

- Ranked Top 3 in AI branch of SHL AMCAT (TEST ID: 432007002144646) with scores: Automata 100, Programming 77, Logical Reasoning 67.

