

SOURAV CHAKRABORTY

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OBJECTIVE

Second-year B.Tech (CSE — AI & Data Science) student with hands-on experience designing, securing, and deploying AI-powered REST APIs using Python and FastAPI. Seeking an AI backend/MLOps internship to contribute to production systems while deepening core implementation skills.

EDUCATION

Assam Down Town University, Guwahati

2025 – 2029

B.Tech, Computer Science & Engineering (AI & Data Science) — CGPA: 8.05/10 (currently 2nd year)

Saint Arnold's Higher Secondary School, TBSE

2023 – 2025

Senior Secondary (Class XII), Science — 88.00%; Secondary (Class X) — 89.60%

PROJECTS

MediSense AI — Medical Symptom Analyzer (Gemini 2.5 Flash, FastAPI, Hugging Face)

Mar 2026

- Architected an AI-powered symptom analysis backend, integrating the Gemini 2.5 Flash API with a FastAPI service layer to process and serve real-time diagnostic insights.
- Engineered a decoupled deployment architecture, hosting the FastAPI backend on Hugging Face Spaces and configuring a secure API bridge to a Vercel-hosted web interface.
- Applied OWASP Top 10-aligned security hardening: JWT authentication, CORS policies for secure cross-origin frontend requests, and strict environment-variable hygiene.

VoiceGuard AI — Deepfake Audio Detection API (FastAPI, Wav2Vec2, Hugging Face)

Feb 2026

- Architected a deepfake audio detection REST API at the India AI Impact Buildathon by HCL GUVI (40,000+ participants nationwide), pairing a FastAPI backend with Meta's Wav2Vec2 model to reach ~91% detection accuracy.
- Deployed the Python backend inference engine to Hugging Face Spaces, establishing a stable connection to a Vercel-hosted frontend via automated GitHub Actions CI/CD pipelines.
- Secured production endpoints per OWASP Top 10 practices, implementing JWT authentication and strict CORS configurations to protect model inference routes.

EXPERIENCE

Contributor/Mentee — GirlScript Summer of Code (GSSoC) 2026 (Remote)

Apr 2026 – Present

- Selected as a Contributor for the AI Agents and Open Source tracks out of a national applicant pool; currently navigating repository onboarding and issue selection for the active summer cohort.

Open Source Contributor — Open Source Connect Global (OSCG) (Virtual)

Mar 2026 – Present

- Successfully contributed merged pull requests and participated in code reviews across open-source repositories; earned the program's Contributor Badge for high-quality input.

SKILLS

Languages: Python (OOP, exception & file handling), C++ (OOP), SQL

Frameworks: FastAPI, Streamlit

DevOps & Cloud: Docker, GitHub Actions (CI/CD), Vercel, Render, Git, Hugging Face

AI/ML: Machine learning fundamentals, prompt engineering, Gemini API, GitHub Copilot (GenAI)

Libraries: NumPy, Pandas

Concepts (project-level exposure): REST API design, JWT authentication, CORS, OWASP Top 10, MLflow basics

CERTIFICATIONS

- IBM SkillsBuild:** Python for Data Science, AI & Development (Earned IBM Digital Badge)
- DataCamp & Simplilearn:** Intermediate SQL, Shell, Git, and C++; 2026 Open Source Program Contributor Certificate

EXTRACURRICULAR

- Publish technical content, AI project breakdowns, and ML learning notes on LinkedIn and GitHub; built a 1300+ connection developer network through consistent engagement.
- Competed in national-level hackathons, including the HCL GUVI AI Buildathon, shipping deployed AI systems on deadline.
- Member, Google Developer Groups (GDG) On Campus — Assam Down Town University.