Swayam Gandhi

AI/ML ENGINEERING STUDENT | BACKEND & LLM APPLICATIONS

New Delhi, India | swayam10138@gmail.com | GitHub | LeetCode

AI/ML engineering student focused on backend systems and LLM applications. Built Python services, real-time chat systems, and applied AI projects; co-authored a Springer Nature conference paper.

EDUCATION

BTech, Artificial Intelligence and Machine Learning | Vivekananda Institute of Professional Studies, New Delhi Aug 2023 - May 2027

EXPERIENCE

Python Developer Intern | IFSO, Delhi Police - National Cyber Forensics Laboratory, New Delhi Aug 2025

- Developed a Python GUI tool to automate repetitive code-generation workflows and improve developer productivity.
- Implemented event-driven execution and real-time script monitoring for debugging and visualization.

SELECTED PROJECTS

Enterprise Chat Assistant | Source on GitHub | FastAPI, Redis, WebSockets, React Jul 2026

Built a full-stack customer-service chatbot with a FastAPI backend and React interface. Added WebSocket chat, Redis-backed session state and caching, and pub/sub signals for live-agent escalation.

FormatLab AI Marketing Engine | Source on GitHub | Next.js, TypeScript, Python, FFmpeg, Gemini Jan 2026

Prototyped an AI marketing workflow for solo founders, with a multi-platform content interface, Python and FFmpeg video-processing core, and Gemini multimodal analysis.

Deepfake Detection System | Source on GitHub | Python, TensorFlow, Flask, React Mar 2025

Built an image-detection app with a CNN classifier, Flask REST inference API, and React dashboard. Trained and evaluated across 100,000+ images from FaceForensics++ and Kaggle data.

PUBLICATION

Singh, R., Aggarwal, K., Gandhi, S., Jain, N., and Bansal, M. (2026). *DeepFake vs Real: A VGG16 Transfer Learning Approach for Binary Classification of Facial Images.* Data Mining and Information Security (ICDMIS 2025), Springer Nature.

Validation accuracy reported in the paper: 84%. DOI: 10.1007/978-3-032-25949-3_1

TRAINING

AI/ML Training Program | Codec Technologies Jul 2026

Completed a four-week program covering machine learning, neural networks, CNNs, NLP, and reinforcement learning. Built an LLM chatbot using prompt engineering and retrieval workflows.

TECHNICAL SKILLS

Programming: Python, JavaScript, TypeScript, SQL

Backend and APIs: FastAPI, Flask, REST APIs, WebSockets, JWT authentication, asynchronous services

Data and retrieval: PostgreSQL, MySQL, Redis, FAISS, vector embeddings, semantic search

AI/ML and LLMs: TensorFlow, CNNs, VGG16 transfer learning, Hugging Face Transformers, RAG, LangChain, OpenAI API, Gemini API, prompt engineering

Frontend and tools: React, Next.js, Git, Linux, Postman, FFmpeg