

Ananya Singh Choudhary

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Profile

Final-year **B.Tech Computer Science** student specializing in **Generative AI/ML** and **Full-Stack Development**. **SIH 2025 Winner** and **SIH 2024 Finalist**, with hands-on experience building scalable, AI-driven applications. Proficient in Python, LangChain, OpenAI, React.js, and FastAPI, with a strong focus on efficient, user-centric, and impact-driven solutions.

Education

- Swami Keshvanand Institute of Technology** Jaipur, Rajasthan
B.Tech, Computer Science and Engineering 2022 – 2026
- St. Xavier's School** Jaipur, Rajasthan
Senior Secondary (Class XII) 2021 – 2022

Projects

- AI-Based UFDR Forensic Analysis Platform** Oct 2025 – Dec 2025
Python, FastAPI, PostgreSQL, pgvector, Qdrant, OpenAI Agents SDK, Docker
 - Built an **end-to-end UFDR ingestion pipeline** with an average **upload-to-analysis latency under 3 minutes**, spanning frontend upload, bucket storage, extraction, and database ingestion.
 - Enabled **natural-language forensic queries** across chats, calls, media, and locations using vector-based semantic search.
- Smart Document Insight Generator** Jul 2025 – Sept 2025
React.js, FastAPI, Python, LangChain, OpenAI, Tesseract, FAISS
 - Developed a **GenAI RAG platform** to extract insights from **5,000+** semi-structured documents using multilingual OCR and FAISS.
 - Built a scalable React frontend and **FastAPI backend**, automating Q&A and document summarization to reduce review time by **80%**.
- Indian Sign Language Translator** Nov 2024 – Dec 2024
Python, TensorFlow, OpenCV, FlutterFlow
 - Trained a **CNN-based ISL-to-text translator** on a dataset of **2,000+** gesture samples, achieving over **80% accuracy**.
 - Deployed a mobile prototype via FlutterFlow to enhance communication accessibility for the hearing-impaired.

Technical Skills

- Languages:** Python, Java, C++, JavaScript, SQL, HTML5, CSS3
- Full Stack:** React.js, FastAPI, REST APIs, MySQL, PostgreSQL, Flask, Django (basic)
- AI/ML Tools:** LangChain, OpenAI API, TensorFlow, PyTorch, OpenCV, Tesseract OCR, FAISS

Internships & Experience

- Imagitime** Jul 2025 – Sep 2025
Software Developer Intern
 - Developed backend modules with **Python and REST APIs**, improving efficiency and maintainability.
 - Collaborated with developers to integrate AI-driven automation features and optimize workflows.
- Wells Fargo Software Engineering Simulation (Forage)** Jun 2025
Virtual program on portfolio management system design
 - Simulated full SDLC, designed a **multi-layer REST API** and debugging workflow for a financial system.
- Standyou Data Info Labs Pvt Ltd** Jul 2024 – Aug 2024
SEO Intern
 - Conducted keyword analysis and optimized web content, achieving a **45% increase** in organic traffic.