

AMAN SINGH

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SUMMARY

Computer Science undergraduate with hands-on experience in building **real-world AI/ML applications**. Proficient in **Python and ML frameworks** with experience working on end-to-end technical projects. Demonstrated leadership as **General Secretary of IEEE NSUT**, leading technical initiatives and teams. Seeking opportunities to apply my skills in the AI/ML domain.

EDUCATION

Netaji Subhas University of Technology, Delhi B.Tech (Computer Science with Artificial Intelligence)	2023 – Present CGPA: 7.42
Evergreen Public School, Delhi AISSCE (Class XII)	2022 95%

EXPERIENCE

AI Automation Intern, ElyvateLabs	Jun 2026 - Jul 2026
- Engineered a multi-agent AI workflow using Agno, where a Supervisor Agent coordinated specialized Nutrition, Fitness, Validation, Recommendation, and Conversational agents to automate personalized health planning. - Designed structured inter-agent communication using JSON outputs, enabling recommendation validation, response aggregation, and context-aware follow-up conversations. Tech Stack : Python, Agno AI Agent Framework, Pydantic, Google Gemini	

PROJECTS

Breast Cancer Histopathology Classification (Source Code)	Feb 2026
- Developed an end-to-end breast cancer histopathology classification system on the BreakHis dataset using a hybrid EfficientNet-B5 + Transformer architecture with Grad-CAM interpretability, achieving 93.77% test accuracy and 0.9936 AUC. Tech used: Python, PyTorch, Albumentations, OpenCV, Scikit-learn, Matplotlib, Grad-CAM	
VideoGenie - Youtube QnA Chatbot (Source Code)	Jul 2025
- Developed VideoGenie, a browser-based extension that answers questions from YouTube videos by combining Whisper-based transcription with Groq LLM for contextual question answering. - Implemented FAISS-based embedding search with SentenceTransformers to retrieve relevant video segments, and built a FastAPI backend with audio caching and REST APIs, reducing response latency by 60%.	

SKILLS

- Programming Languages:** C++, Python, SQL
- Machine Learning & AI:** Pandas, Numpy, Matplotlib, Seaborn, scikit-learn, Pytorch, Tensorflow, FAISS, Tableau, OpenCV, NLP, LLMs, RAG, LangChain, LangGraph
- Development:** Flutter, Firebase, Rest APIs, FastAPI
- Databases & Tools:** MySQL, PostgreSQL, Git, Google Cloud, Android Studio, Figma, Excel
- Relevant Coursework:** OOPs, DSA, Operating Systems, Computer Networks

ACHIEVEMENTS

- Winner – ORFIK'24 conducted by COMPSOC, St. Stephens College
- IEEE Outstanding Student Volunteer Award** for the session 2025-26

LEADERSHIP EXPERIENCE

- General Secretary — IEEE NSUT** **Jun 2025 - Jun 2026**
 - Co-convened 2 national-level hackathons and DSSYWLC'25 with **6,000+ total participants and 1,200+ offline attendees**. Led cross-functional teams across **sponsorships, bootcamps, content, and app development**, increasing member engagement and chapter visibility.