

# Sanyam Sharma

+91 8219552796 | [sanyamsharma1271@gmail.com](mailto:sanyamsharma1271@gmail.com) | [linkedin.com/in/sanyam-sharma-cse](https://linkedin.com/in/sanyam-sharma-cse) | [github.com/ssnym](https://github.com/ssnym)

## ABOUT

Final-year CS student (graduating May 2026) specializing in ML/DL, with hands-on research experience at IIT Hyderabad and IIT Mandi in deep learning, audio processing, and edge computing. Seeking full-time ML/AI engineering roles.

## WORK EXPERIENCE

<b>Indian Institute of Technology, Hyderabad</b>	Hyderabad, Telangana
Intern	Jan 2026 – Present
• Working at NetX Lab @ IIT Hyderabad	
<b>Indian Institute of Technology, Mandi</b>	Mandi, Himachal Pradesh
Summer Intern	Jun 2025 – Jul 2025
• Extracted features from audio data using MFCC and HF pretrained models (wav2vec2.0, wav2vec2-phoneme)	
• Implemented Conformer-based deep learning model in PyTorch for spoken language identification	
• Achieved up to 79% accuracy on unseen language identification data	
• Developed a PyQt6 desktop GUI and integrated pretrained models for spoofed speech detection	
<b>Indian Institute of Technology, Mandi</b>	Mandi, Himachal Pradesh
Research Intern	Jun 2024 – Jun 2024
• Set up real-time data pipeline using Telegraf and InfluxDB to collect and store sensor data from an ESP32 via MQTT.	
• Deployed the system on a Raspberry Pi using Docker and Docker Compose for real-time data processing.	

## EDUCATION

<b>Jawaharlal Nehru Government Engineering College</b>	Mandi, Himachal Pradesh
B.Tech - CSE (AI & ML)	2022 – 2026
<b>Key Courses:</b> Data Structure and Algorithm, Machine Learning, Artificial Intelligence, Deep Learning, Cloud Computing, Generative AI	
<b>Government Senior Secondary School, Kangoo</b>	Hamirpur, Himachal Pradesh
Senior Secondary (Non-Medical)	2022

## PROJECTS

<b>AI-Powered Assistive Vision for Blind People   Major Project</b>	Aug 2025 – Dec 2025
<b>Tech Stack:</b> gTTS, FaceNet, Gemini-API, pytesseract, RaspberryPi	
• Developed an AI-powered assistive vision smart cap for blind person using Raspberry Pi, camera, LiDAR and audio module	
• Implemented OCR-based text recognition to read printed and convert it into real time audio output	
• Integrated obstacle detection with audio-based navigation for safe mobility	
<b>Extension for malicious QR code and URL detection   Capstone Project</b>	Jan 2025 – May 2025
<b>Tech Stack:</b> Python, Flask, Scikit-Learn, JavaScript	
• Extracted and engineered features from large scale malicious and legitimate URL/QR dataset	
• Built a stacked ensemble ML model (5 base + meta-classifier), achieving 91.3% accuracy	
• Developed Chrome extension with Flask backend for model inference	
<b>SpoofedSpeechGUI   Github</b>	
<b>Tech Stack:</b> Python, PyQt6, PyTorch, Librosa	
• Extracted features from the raw audio using Librosa	
• Applied pre-trained AASIST and RawNet models for spoofed audio detection	
• Developed a PyQt6 desktop GUI application and containerized with Docker	

## TECHNICAL SKILLS

<b>Languages:</b> Python, C++, SQL, HTML, CSS
<b>Libraries:</b> PyTorch, Scikit-learn, Tensorflow (Keras), Numpy, Pandas, Fast-API, Flask
<b>Developer Tools:</b> Ollama, Docker, Postman, Git, GitHub, Linux

## PUBLICATIONS

- **HybridStack-MLP: Advanced Ensemble Learning for Malicious QR Code and URL Detection** 2025  
AI-Powered Ensemble model achieved 91.3% accuracy in detecting malicious QR codes and phishing URLs

## HONORS AND AWARDS

- **State Level Smart Hackathon** 2025  
Secured 1st position at SLSH Hackathon all over Himachal Pradesh
- **Smart India Hackathon** 2025, 2024  
Secured 1st position twice in college-level SIH competition