

Sanyam Sharma

+91 8219552796 | sanyamsharma1271@gmail.com | linkedin.com/in/sanyam-sharma-cse | 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

Indian Institute of Technology, Hyderabad

Intern

Hyderabad, Telangana

Jan 2026 – Present

- Working at NetX Lab @ IIT Hyderabad

Indian Institute of Technology, Mandi

Summer Intern

Mandi, Himachal Pradesh

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

Indian Institute of Technology, Mandi

Research Intern

Mandi, Himachal Pradesh

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

Jawaharlal Nehru Government Engineering College

B.Tech - CSE (AI & ML)

Mandi, Himachal Pradesh

2022 – 2026

Key Courses: Data Structure and Algorithm, Machine Learning, Artificial Intelligence, Deep Learning, Cloud Computing, Generative AI

Government Senior Secondary School, Kangoo

Senior Secondary (Non-Medical)

Hamirpur, Himachal Pradesh

2022

PROJECTS

AI-Powered Assistive Vision for Blind People | Major Project

Aug 2025 – Dec 2025

Tech Stack: 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

Extension for malicious QR code and URL detection | Capstone Project

Jan 2025 – May 2025

Tech Stack: 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

SpoofedSpeechGUI | Github

Tech Stack: 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

Languages: Python, C++, SQL, HTML, CSS

Libraries: PyTorch, Scikit-learn, Tensorflow (Keras), Numpy, Pandas, Fast-API, Flask

Developer Tools: 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