

Suryansh Sharma

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EDUCATION

JawaharLal Nehru Government Engineering College <i>Bachelor of Technology in Computer Science (Artificial Intelligence and Machine Learning)</i>	Himachal Pradesh, INDIA <i>Sep. 2022 – Present</i>
Minerva Senior Secondary Public School <i>12th (Higher Education), Mathematics with Biology</i>	Himachal Pradesh, INDIA <i>2020 – 2021</i>

WORK EXPERIENCE

Indian Institute of Technology Mandi <i>Project Intern</i>	Jun. 2025 – Jul. 2025 <i>Himachal Pradesh, IN</i>
Non-Invasive Glucometer for Diabetes and Heart Disease Detection <ul style="list-style-type: none">Contributed to the development of deep learning models to classify diabetes using multi-sensor breath data and evaluating models for high accuracy.My work involved building classification models from breath data features and signal of sensors, converting sensor signals into spectrograms, and applying deep learning models to classify patients.To overcome the challenge of a limited dataset, I also contributed to generating synthetic data using Generative Adversarial Networks (GANs) for resolving issues.	
Neuromodulating Mind-Wandering and Decision-Making via tES (EEG-fNIRS Study) <ul style="list-style-type: none">Performed comprehensive EEG analysis using MNE-Python, including signal filtering, ICA-based artifact removal, and analyzing ERPs (P300, N200, FRN) and Power Spectral Density (PSD).Explored the effects of transcranial electrical stimulation (tDCS and tACS) on mind-wandering and attentional control.I was actively involved in designing EEG-fNIRS experiments, developing cognitive tasks in PsychoPy, participant coordination, and data collection.	
Indian Institute of Technology Mandi <i>Research Intern</i>	Jun. 2024 – Sep. 2024 <i>Himachal Pradesh, IN</i>
Sleep Research (polysomnography) <ul style="list-style-type: none">Data collection and preprocessing of raw data from polysomnography machine (EEG, ECG, EMG, etc.).Built a comprehensive pipeline for sleep data analysis, cleaning, and feature extraction.Created models for accurate sleep stage scoring.	

PROJECTS

LLM-Enhanced AI Price Comparison and Product Insights from E-commerce Reviews <i>Python, LLMs, Web Scraping, Flask, MongoDB, API's</i> <ul style="list-style-type: none">Built a system to track and compare product prices across multiple e-commerce platforms, providing average, lowest, and highest price with historical trends, for some websites use API's for low-latency and for proxy servers.Developed interactive graphs for price history visualization to assist users in making informed decisions.Implemented an LLM-powered module to extract product features, pros, cons, and concise summaries from customer reviews.Enabled personalized recommendations on whether to buy a product based on sentiment and review analysis.Integrated natural language query support, allowing users to ask questions about products and receive insights from LLMs.	
Automatic Attendance System through Face Recognition with Anti-Spoofing <i>Python, Numpy, Pandas, Tkinter, Dlib, DeepFace, Deep Learning, Computer Vision</i> <ul style="list-style-type: none">Developed data collection and preprocessing pipeline with Haar Cascade for face detection and real-time face recognition using 128D embeddings.Integrated DeepFace-based anti-spoofing detection for robust authentication and a web app for attendance management integrated with a database .	
Other Projects Python, Machine Learning <ul style="list-style-type: none">Controlling Games through Hand GesturesLaptop Price PredictorMusic Recommendation System	

TECHNICAL SKILLS

Programming Languages: Python, C++, Java, SQL, HTML/CSS, JavaScript, TypeScript, Spring Boot
Skills: Full-Stack Development, Backend, Machine Learning, Deep Learning, Computer Vision, Generative AI, TensorFlow, Pytorch, NLP, Transformers, LLM, RAG, Hugging Face
Developer Tools and frameworks: Git, GitHub, Scrapy, Selenium, Flask, RestAPI, RESTful APIs, Anaconda, Linux, NodeJS, NextJS, ReactJS
Databases: Mysql, MongoDB, Postgresql
Core Fundamentals:Data Structures and Algorithms, Problem Solving, Object Oriented Programming , Operating System, DBMS, Computer Networks

ACHIEVEMENTS AND CODING PROFILES

Coding Profiles

- [Leetcode](#) [Geeksforgeeks](#)

Smart India Hackathon

- Secured first place in the college-level qualifiers for Smart India Hackathon 2024.