

Suryansh Sharma

+91 7876801968 | suryanshbhardwaj04@gmail.com | linkedin.com/in/suryansh | github.com/darksuryansh

EDUCATION

Jawahar Lal Nehru Government Engineering College

Bachelor of Technology in Computer Science (Artificial Intelligence and Machine Learning)

Himachal Pradesh, INDIA

Sep. 2022 – Present

Minerva Senior Secondary Public School

12th (Higher Education), Mathematics with Biology

Himachal Pradesh, INDIA

2020 – 2021

WORK EXPERIENCE

Indian Institute of Technology Mandi

Project Intern

Jun. 2025 – Jul. 2025

Himachal Pradesh, IN

Non-Invasive Glucometer for Diabetes and Heart Disease Detection

- 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)

- 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

Research Intern

Jun. 2024 – Sep. 2024

Himachal Pradesh, IN

Sleep Research (polysomnography)

- 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

Python, LLMs, Web Scraping, Flask, MongoDB, API's

- 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

Python, Numpy, Pandas, Tkinter, Dlib, DeepFace, Deep Learning, Computer Vision

- 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

- Controlling Games through Hand Gestures
- Laptop Price Predictor
- Music 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.