

Navjot Sahi

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SUMMARY

Computer Science undergrad passionate about building intelligent systems and full-stack applications. Strong foundation in Python, machine learning, and backend development with hands-on experience in AI chatbots, recommendation engines, and scalable web platforms.

EDUCATION

- **University of Petroleum and Energy studies — Dehradun, Uttarakhand** 2022-2026
Bachelor of Technology in Computer Science
CGPA: 8.58
- **O.S.D.A.V. Public School — Kaithal, Haryana** 2021-2022
Class 12 (CBSE)
- **O.S.D.A.V. Public School — Kaithal, Haryana** 2019-2020
Class 10 (CBSE)

INTERNSHIPS

Generative AI Intern

SmartBridge (Remote) | June 2025 – July 2025

Completed 60-hour virtual internship focused on generative AI models (VAE, GAN, BERT, LSTM) and tools like Gemini and FastAPI, gaining hands-on experience in text generation, summarization, and chatbot development.

Social Intern

Udit Kunj Foundation — Kaithal, Haryana | June 2023

Spearheaded outreach initiatives for gender equality, anti-drug awareness, and environmental programs, engaging with 500+ participants and achieving a 25% increase in program enrollment through targeted campaigns

PROJECTS

AI-Powered Incident Response Platform (Live App Demo/View on Github)

Tech Stack: Python, FastAPI, React, MongoDB, Hugging Face API, Render

- Architected a full-stack incident management platform using Python (FastAPI) and React, integrating a Hugging Face NLP model to automate the classification and triage of incoming alerts.
- Engineered a RESTful API to provide full CRUD functionality and deployed the application to Render, making it a publicly accessible, interactive single-page application.

AI-Powered Academic Dashboard & RAG Chatbot (View Code on Github)

Tech Stack: Django, Streamlit, LangChain, Google Gemini, ChromaDB

- Built a personalized academic dashboard with role-based access and real-time grade tracking using Django and Streamlit.
- Integrated a course-specific chatbot using LangChain and Google Gemini, delivering document-grounded answers via a RAG pipeline.

Tomato Disease Detection System

Tech Stack: Python, Django, ResNet-50, TensorFlow

- Built a web-based application using Django for detecting tomato plant diseases.
- Trained ResNet-50 on the Tomato Disease Dataset, achieving 99% accuracy.

HealthMate: AI-Powered Health Chatbot (View Code on Github)

Tech Stack: Python, TensorFlow, Kubernetes, Vultr Cloud

- Engineered an NLP-driven health chatbot using TensorFlow and Kubernetes, deployed on Vultr Cloud.
- Secured Top 5 placement out of 3,500 participants in the Vultr Cloud Hackathon by optimizing natural language processing algorithms, reducing response latency by 30%.

Technical Skills

- **Programming Languages:** Python, Java, C, JavaScript
- **Web Development:** HTML, CSS, JavaScript, React
- **Database Management:** MySQL, Oracle, PostgreSQL, MongoDB
- **ML & Data Science Frameworks:** TensorFlow, PyTorch, Keras, Scikit-learn, Pandas, Matplotlib, Seaborn
- **Web & Development Tools:** Node.js, Django, Streamlit, LangChain
- **AI & Vector Technologies:** ChromaDB, Google Gemini (Generative AI)
- **Operating Systems:** Windows, Linux