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
  GPA: 8.5
- **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 – Present

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

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PROJECTS

AI-Powered Academic Dashboard & RAG Chatbot

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

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%.

Skincare Recommendation System

Tech Stack: Java, CNN, Collaborative Filtering

- Designed a CNN-based recommendation system in Java, leveraging collaborative filtering to personalize skincare recommendations for diverse user skin types.
- Conducted user testing with a dataset of 1,000+ entries, improving recommendation accuracy by 15%.

Technical Skills

- **Programming Languages**: Python, Java, C, JavaScript
- **Web Development**: HTML, CSS, JavaScript
- **Database Management**: MySQL, Oracle, PostgreSQL
- **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
