

Harsh Nath Tiwari

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Profile Summary

Final-year Bachelor of Technology (B.Tech) student in **Computer Science and Engineering** with a strong foundation in **Machine Learning, Full-Stack Development, and Cloud Technologies**. Proficient in Python, C++, and frameworks such as Flask and Django. Experienced in developing scalable, data-driven applications with hands-on expertise in AI/ML, REST APIs, cloud computing and containerized deployment.

Education

University of Petroleum and Energy Studies (UPES)
B.Tech in Computer Science and Engineering — CGPA: 7.56/10

Aug 2022 – May 2026

Technical Skills

Programming Languages: Python (Advanced), C++ (Intermediate)
Frameworks & Libraries: Flask, Django, TensorFlow, Streamlit, Scikit-learn, Pandas, NumPy
Databases: MySQL, SQLite
Cloud & DevOps: AWS (EC2, Lambda, CloudFormation), Docker, Kubernetes, Terraform, CI/CD Pipelines
Version Control & Tools: Git, GitHub, Linux, Bash

Relevant Courses

Data Structures and Algorithms, Object-Oriented Programming, Operating Systems, Database Management Systems, Computer Networks

Experience

- Full-Stack Developer Intern** — Naiyo24 Ltd (Remote) June 2025 – Sept 2025
- Developed a full-stack interior design platform using **Flask, MySQL, HTML, CSS, and JavaScript**.
 - Optimized backend queries and improved overall response time by **20%**, enhancing user experience.
- ML/AI Intern (Summer Internship)** — Diginique Techlabs (Remote) June 2024 – July 2024
- Processed and cleaned large-scale user-movie datasets for ML pipelines, handling missing values and encoding categorical data.
 - Developed a **collaborative filtering-based recommendation system (SVD)** achieving **85% accuracy**.
 - Automated feature engineering steps, reducing pipeline runtime by **30%**.

Projects

- Mediicoss (Generative AI)** — GitHub 2025
Flask, LangChain, Pinecone, Ollama (Phi-3), AWS
- Built a medical chatbot using **LangChain** and **Ollama Phi-3** with **RAG** for context-based question answering.
 - Integrated **Pinecone vector DB** for semantic search and deployed on **AWS EC2** using a scalable Flask backend.
- Recipe Website** — GitHub 2023
Django, REST Framework, JavaScript, HTML, CSS
- Designed and developed a recipe-sharing platform with secure **authentication, user roles**, and CRUD functionality.
 - Implemented APIs using **Django REST Framework** and optimized ORM queries for fast search and pagination.
- Animal Counter** — GitHub Jan 2025
Python, OpenCV, PyTorch, NumPy
- Built a real-time animal detection system using **YOLO + ResNet models** integrated with Raspberry Pi.
 - Applied **OpenCV** for frame analysis and tracking, achieving accurate real-time automated counting.

Certifications

AWS Certified Cloud Practitioner Essentials (2025)
The Complete Python Developer — Udemy (2025)
Getting Started with Docker — Simplilearn SkillUp (2025)