Daivik Awasthi

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Professional Summary

Computer Science & Engineering student with hands-on experience building and deploying AI/NLP systems. Proficient in Python and the modern ML stack (TensorFlow, PyTorch, HuggingFace, XGBoost). Demonstrated ability to prototype LLM-powered features with structured JSON outputs, evaluate model quality, and ship full-stack AI applications to production. Actively seeking opportunities to contribute to AI/NLP research and product development.

Education

Bachelor of Technology in Computer Science & Engineering 2022 – 2026
Amity University Punjab
CGPA: 8.52/10.0

12th Grade (Non-Medical) 2022
PML S.D. Public School, Chandigarh
Score: 93%

Technical Skills

Languages: Python, C, C++, Java, SQL

AI / ML: Large Language Models (LLMs), Natural Language Processing (NLP), Text Classification, Sentiment Analysis, Named Entity Recognition, Computer Vision, Predictive Modeling, Data Preprocessing, Feature Engineering, Linear/Logistic Regression, SVM, KNN, XGBoost, CNNs, Transfer Learning, Model Evaluation, Model Optimization

Frameworks & Libraries: TensorFlow, Keras, Scikit-learn, PyTorch, HuggingFace Transformers, NLTK, VADER, NumPy, Pandas, Seaborn, Matplotlib, Streamlit, FastAPI

LLM / Prompt Engineering: Structured JSON outputs, prompt design, RAG workflows, Claude API, ChatGPT API, evaluation sets, latency benchmarking, LangChain

Tools: Git/GitHub, Jupyter Notebook, VS Code, Vercel, Render, Cursor (GenAI), Antigravity, Grafana, InfluxDB, Arduino, Figma, WordPress

Experience

IoT & Real-Time Monitoring Intern | India Meteorological Department, New Delhi *June 2025 – Aug 2025*

- Built CLIMAGRAF, an IoT real-time environmental monitoring system with automated 1-minute data collection using **DHT12** sensors and a Python-based data pipeline.
- Integrated sensor streams into Grafana dashboards backed by **InfluxDB**; wrote clean README and run steps so teammates could reproduce the setup with a single command.
- Maintained the data pipeline with robust error handling and structured logging practices directly applicable to CLI AI prototype tooling.

Projects

NutriLens: AI-Powered Food Recognition & Nutrition Analysis | **GitHub Link** *April 2026*

- Fine-tuned **EfficientNetB0** on Food-101 (101 classes, 101K images) via two-phase transfer learning, achieving **82.57%** test accuracy using **TensorFlow/Keras** and HuggingFace model hosting.
- Engineered a health-profile suitability engine across **5 dietary profiles**; returned structured JSON responses (Glycemic Load, sodium, saturated fat thresholds with risk-rated alternatives) consumed by the React frontend.
- Built FastAPI backend with live portion scaling and USDA FoodData Central integration (300K+ foods); extended local database with **30+ Indian dishes** implemented input validation and edge-case handling throughout.
- Deployed full-stack to production (**React 18 + Tailwind on Vercel**, FastAPI on Render, model on HuggingFace with auto-download on cold start); documented architecture and run steps in a comprehensive README.

Stock Prediction Model | **GitHub Link** *March 2025*

- Built an NLP pipeline to extract sentiment from Reddit discussions using **NLTK** and **VADER**: tokenization, stop-word removal, and sentiment scoring.
- Combined sentiment features with historical Yahoo Finance data to train an **XGBoost classifier**, improving prediction accuracy from **58%** to **63%**; logged experiment notes tracking what changed and why.
- Developed a Streamlit dashboard for real-time visualization of sentiment trends and price changes; published code on GitHub with reproducible run steps.

Certifications

- AWS Academy Graduate – Cloud Foundations (Amazon Web Services) *May 2025*
- Pandas (Kaggle) *July 2025*
- Data Visualization (Kaggle) *July 2025*
- Oracle Certified Foundations Associate *Sept 2025*
- Machine Learning Techniques in MATLAB *Nov 2025*

Achievements & Activities

- Finalist at Hack Summit (March 2025) ranked **Top 10 among 720 teams** for an NLP-powered stock prediction system combining Reddit sentiment analysis and XGBoost.
- Deployed **Nutrilens**, a food recognition and nutritional analysis system built with JavaScript, averaging 15–20 visits per day
- Solved 250+ problems on LeetCode across data structures and algorithms; earned the **100 Days Badge** (2025) for solving problems consistently over 100 days
- Event Manager Extempore Competition (March 2024), coordinated participant registration, scheduling, and logistics for a public-speaking event.