

Dhruv Tiwari

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SKILLS

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

Frameworks: Flask, Django, React, Flutter, LangChain, Fast-API, TensorFlow

Tools/Platforms: Git, Docker, Google Studio, Firebase, Postman, Hugging Face, Kaggle

Soft Skills: Adaptability, Problem-Solving, Critical thinking, Team collaboration

INTERNSHIP

Tech Intern at DRDO | (Defense Research and Development Organization – DMSRDE, Kanpur) Jun'2025 - July' 2025

- Built Suvidha AI, an internal chatbot using Fast-API, Vector Search, and the Gemini API to deliver accurate, context-aware answers for GFR 2017 & PM 2025 queries.
- Instrumented intelligent document processing and semantic search pipelines over large rule PDFs, enabling context-aware answers with precise citations and achieving over 92% relevance in internal test queries.
- Shipped a secure, production-ready, end-to-end system with chat history, quick actions, and export features, reducing average information lookup time by approximately 80% for typical use cases.

PROJECTS

Health Oracle – Smart healthcare diagnostic | Django, SQL, TensorFlow, SMOTE Dec'2024 - Jan' 2025

- Engineered a Django-based intelligent health system that predicts risks for 4 major diseases (heart, lung, liver, diabetes) using ML models achieving 85–92% accuracy.
- Integrated a Gemini-powered chatbots to provide instant medical guidance, increasing efficiency by 50%.
- Designed and developed a secure, responsive platform incorporating user profiles, prediction history, and actionable AI insights improving overall user engagement by 60%.

Krishi Mitra – Web3 full stack mobile app for farmers | Sepolia, Metamask API, ERC20 contracts. Oct'2025

- Established and deployed 100 Cr Shankh tokens based on Ethereum test net. Purpose was to base the agriculture-based transactions on cryptocurrency to increase the scope and reach of trade.
- Achieved 91% accuracy using a location-aware crop prediction model, aiding small-scale farmers in decision-making.
- Orchestrated cross-functional teamwork and streamlined communication between developers and tester.

TRAINING

Summer Training – Advanced Python for ML and AI (CSE PATHSHALA) July'2025 – Aug'2025

- Formulated an Air Quality Index (AQI) prediction system using multiple ML models (Linear, Ridge, Lasso, Decision Tree, Random Forest), achieving a highest accuracy of $R^2 = 0.92$ in forecasting pollution levels.
- Embedded a complete ML pipeline including data cleaning, feature engineering, EDA, outlier handling, and hyperparameter tuning through Grid Search to ensure optimal model performance.
- Designed a modular OOP architecture (encapsulation, inheritance, polymorphism) that streamlined component management, improved scalability, and accelerated experimentation by 30–40%.

CERTIFICATIONS

- Oracle Cloud Infrastructure 2025 Certified Data Science Professional – Oracle Nov'2025
- Oracle Cloud Infrastructure 2025 Certified Generative AI Professional – Oracle Oct'2025
- Oracle Cloud Infrastructure 2025 Certified AI foundations Associate – Oracle July'2025

ACHIEVEMENTS

- Awarded Academic Excellence Award for maintaining a CGPA above 9.3 across all semesters. Nov'2025
- Community Associate at Madhuban Sewa Samiti, awarded for exemplary service. July'2024

EDUCATION

Lovely Professional University

Phagwara, Punjab

BTech in Computer Science (Artificial Intelligence and Machine Learning) – CGPA: 9.3.

Aug'2023 – Present

Dr. Virendra Swaroop Education Centre

Kanpur, Uttar Pradesh

Senior Secondary (CBSE) – Percentage: 95%

Apr'2021 – Mar'2022