Aayush Chauhan

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EDUCATION

- **Faculty of Technology, UoD** — Delhi, India
  Bachelor of Technology in Electronics and Communication; CGPA : 8.50 — *Expected May 2027*
  Minor in Artificial Intelligence & Machine Learning

- **Radiant Academy (CBSE)** — Noida, India — *2020-2022*
  Senior Secondary: 89.2%
  Higher Secondary: 94.6%

EXPERIENCE

- **Vectura Fertin Pharma** — Noida, India
  Sales & Markting Executive — *Summer 2024*
  - **Increased customer engagement by 30%**: led in-store promotions to enhance customer interaction and increase product awareness for Ryze Nicotine Gums.
  - **Boosted sales volume by 20%**: Negotiated with customers, fostering strong relationships that boosted product uptake and market penetration.
  - **Developed data-driven marketing strategies**: contributing to a **15%** market penetration increase for Ryze's **"Tobacco-Free India"** initiative.

PROJECTS

- **HR/IT AI-Based Chatbot** — *University Hackathon Project, Oct 2024*
  - Led a team of six, designed an **AI-powered chatbot** for HR and IT support, reducing query resolution time by **40%** integrating **TensorFlow**, **Hugging Face Transformer Models** with **Flask APIs.**, ensuring **99% uptime** and cost optimization, saving organizations **Rs.5 lakh+ annually** on operational inefficiencies

- **Finance Assistant Bot** ↗ — *Individual Project, Dec 2024*
  - Developed an **AI-powered financial chatbot** using **Groq** and the **Phidata API** for faster **LLM-based** responses using **LLaMA 3.1-70B Versatile** model with the **Yahoo Finance API**, achieving **85%** accuracy in stock recommendations with automated company fundamentals analysis, reducing manual research time for investors by **50%**.

- **Spotify hit songs predictor** ↗ — *Individual Project, Feb 2025*
  - Analyzed **40,000+ Spotify tracks (1960s–2010s)**, identifying key audio patterns influencing hits, and engineered features using **PCA** used algorithms like **SVM**, **Random Forest**, **KNN** and **Logistic Regression** and optimized **Random Forest (82.48% accuracy)** and **SVM models (82.80% accuracy)** for classification.

- **Saferoad AI** ↗ — *Hackathon winning Project, March 2025*
  - Designed a real-time **car accident detection system** that utilizes a **YOLOv8** model trained on a custom dataset to work with a video feed from **CCTV or live stream**, detecting accidents in real-time and sending messages to the nearest hospital using a Maps API.

TECHNICAL SKILLS

- **Programming**: C/C++, Python, HTML, CSS, MySQL
- **ML Frameworks**: TensorFlow, Sci-kit Learn, NumPy, Pandas, PyTorch, Matplotlib, Seaborn
- **Electronics Design & Simulation**: MATLAB, Simulink, LT Spice, NI Multisim, Ansys HFSS, CST

CERTIFICATIONS AND ACHIEVEMENTS

- **Machine Learning Specialization** by Stanford University via Coursera
- **Python for Data Science and AI** by IBM