

# Aayush Chauhan

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## PROFESSIONAL SUMMARY

Aspiring **Machine Learning Engineer** with a strong foundation in **AI/ML, NLP and computer vision**. Proven ability to deliver research-backed and real-world ML solutions, with published work and award-winning hackathon projects.

## 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  
• *Senior Secondary: 89.2%* *2020-2022*  
• *Higher Secondary: 94.6%*

## PROJECTS

- **HaritaX – Plant Disease Classifier (99.76% Acc)** | *github link* *Apr 2025*
  - Built deep ensemble (VGG16 + ResNet50 + ViT + Swin) using PyTorch & TensorFlow ; outperformed SOTA on PlantVillage via feature-level fusion
- **Saferoad AI – Accident Detection** | *github link* *Mar 2025*
  - Trained YOLOv8 on custom video dataset to detect road crashes in real-time from CCTV; integrated Maps API for hospital alerts
- **Finance Assistant Bot – LLM-based Stock Analyst** | *github link* *Dec 2024*
  - Developed chatbot using LLaMA 3.1-70B + Groq API + Yahoo Finance; achieved 85% accuracy, reduced research time by 50%
- **HR/IT Chatbot – Enterprise LLM Agent** *Oct 2024*
  - Led 6-member team. Integrated Hugging Face Transformers + Flask; Reduced query resolution time by 40%, saved Rs. 5L/year

## RESEARCH AND PUBLICATIONS

**Cracking the Code of Spotify Hits: The Impact of Data Preprocessing and Machine Learning Models** | *Paper under review, April, 2025* | *github link*

4 Analyzed 40K+ songs. Used PCA + Random Forest to predict hits (83.17% acc). Demonstrated temporal segmentation's role in music ML.

## TECHNICAL SKILLS

- **Languages:** Python, C++, SQL, HTML/CSS
- **ML/DL:** PyTorch, TensorFlow, scikit-learn, OpenCV
- **Data Tools:** NumPy, Pandas, Matplotlib, Seaborn
- **DevTools:** Git, Flask, Streamlit, REST APIs
- **EDA/Simulation:** MATLAB, HFSS, CST, Simulink

## CERTIFICATIONS AND ACHIEVEMENTS

- **Machine Learning Specialization** – Stanford (Coursera)
- **Computer Vision & Python for DS/AI** – IBM
- **NITORI Scholarship** – Academic excellence (2024–25)