CHIRAG DUHOON

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Education

Bennett University — Greater Noida, India
B.Tech in Artificial Intelligence Engineering | CGPA: 8.53 — *Aug 2024 – May 2028*

Army Public School, Meerut — Meerut, India
Class XII (CBSE) – 93.3% (2024) | Class X (CBSE) – 92% (2022)

Technical Skills

Languages: C++, Python, SQL, JavaScript
Frameworks & Libraries: React, FastAPI, Flask, Streamlit, OpenCV, TensorFlow, YOLO
Tools: Git, GitHub, VS Code, MySQL, Vite | **Concepts**: DSA, OOP, Computer Vision, WebSockets, REST APIs

Projects

Sanjeevani | *React, FastAPI, Python, WebSockets, Vite* | GitHub | Live — 2026
- Built an AI-powered healthcare triage platform with 4-level risk classification (Critical, High, Moderate, Low) using Groq API with structured JSON output, tested 15+ times with consistent accuracy.
- Designed a WebSocket notification system with replay-on-connect so doctors receive the full live patient queue instantly on dashboard load without any polling.
- Added bilingual (Hindi + English) voice input using Web Speech API and i18next across a full-stack React and FastAPI system.

Indian Food Classification & Calorie Estimation | *Python, YOLOv8, OpenCV, Streamlit* | GitHub — 2025
- Built a YOLOv8 computer vision pipeline to detect and classify 17 Indian food categories (Biryani, Samosa, Idli, etc.) with GPU-accelerated training and configurable CLI options.
- Built a Streamlit inference dashboard with real-time bounding box overlays, adjustable confidence/IOU thresholds, and per-item calorie breakdown for meal nutrition estimation.

Vehicle Number Plate Detection & Recognition | *Python, OpenCV, OCR* — 2025
- Built an end-to-end CV pipeline in 18 hours at Deep Sight Challenge using contour-based plate localization, perspective correction, and OCR text extraction under real-world lighting. Secured 4th place.

Achievements

Drono War 1.0 | *National-level Drone Competition* — 2026
- **2nd Place** in FPV Racing and **2nd Place** in Autonomous Mission category.

Deep Sight Challenge | *Computer Vision Hackathon* — 2025
- Secured **4th Place** in an 18-hour computer vision hackathon.

Certifications

- Convolutional Neural Networks in Python — *Udemy*
- Programming for Everybody: Getting Started with Python — *Coursera*

Coding Profiles

LeetCode: leetcode.com/chiragduhoon – 100+ problems solved across Arrays, Binary Search, Strings, DP
GitHub: github.com/chiragduhoon – active repositories including Sanjeevani and CV projects

Position of Responsibility

Core Member | *Aero AI Club, Bennett University* — 2025 – Present
- Core member driving AI and drone projects for the club. Represented Bennett University at Drono War 1.0, a national-level drone competition.
- Worked with team members on autonomous mission design, FPV racing strategy, and integrating AI into drone systems.

Relevant Coursework

Data Structures & Algorithms | Object Oriented Programming | Database Management Systems | Operating Systems | Computer Networks | Machine Learning | Computer Vision | Artificial Intelligence