Adarsh Kumar Rawat

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CAREER OBJECTIVE

Detail-oriented developer skilled in Python, OpenCV, and Data Structures & Algorithms . Experienced in full-stack web development using HTML, CSS, JavaScript, React, Django, and PostgreSQL, building responsive and scalable applications. Passionate about creating efficient solutions, learning new technologies, and delivering clean, maintainable code

EDUCATION

Dr. Ambedkar Institute of Technology for Divyangjan, Kanpur
Bachelor of Technology (B.Tech) in Information Technology | **2022-Present** | CGPA- **7.2/10**
Kendriya Vidyalaya, Armapur, Kanpur
Intermediate | **90.4%** | **2021**
High School | **89%** | **2019**

SKILLS

PROGRAMMING LANGUAGE: Python(dominant), C++, Java
FRAMEWORKS AND LIBRARY : Django, Numpy, Pandas, Matplotlib, TensorFlow, OpenCV, Tkinter
DATABASE: MySQL, PostgreSQL **TOOLS:** Git, Postman, Render, Netlify
FRONTEND TECHNOLOGY: HTML, CSS, Tailwind CSS, JavaScript, React
SOFT SKILLS: Team Coordination, Analytical Reasoning, Strong Communication, Efficient Scheduling **DESIGN:** UI/UX Design (Figma)

PROJECTS

AIRCRAFT PERFORMANCE CALCULATOR | Demo | Github Repo **May, 2025 - June, 2025**
Python, Html, CSS, JavaScript, Matplotlib
- Built a web-based Aircraft Performance Calculator to analyze and visualize key flight parameters.
- Integrated Chart.js for dynamic graph generation and real-time performance visualization.
- Designed a responsive, user-friendly UI with optimized calculations for accurate results.

SATELLITE TRAJECTORY ANALYSIS Tool Demo | Github Repo **Aug, 2025 - Oct, 2025**
Python, Html, CSS, JavaScript, Matplotlib, Tkinter, Pyastronmy
- Developed an interactive Satellite Trajectory Analysis tool using Python (Tkinter, Matplotlib, PyAstronomy) and HTML for real-time 3D orbit visualization and altitude profiling.
- Implemented orbital mechanics simulation with adjustable parameters and automated data export for detailed performance analysis.
- Integrated graphical interface and visualization features enabling users to analyze, save, and interpret satellite orbital paths intuitively.

WORK EXPERIENCE

Junior RT Abstract Visual Designer — PixelSchmiede (May 2025 – July 2025)
- Developed real-time audio-reactive visuals using Python and OpenCV, synchronizing animations with live sound input.
- Implemented algorithms to analyze audio frequency and amplitude, driving dynamic visual effects for live performances.
- Collaborated with creative team to design abstract visuals aligned with music and event themes

ACHIEVEMENTS

- Solved **200+** problems on LeetCode, Strengthening algorithmic thinking and coding skills.
- 1700+ Contest Rating on Leetcode
- 9 kyu on AtCoder | 1000+ Rated on CodeForces

CERTIFICATES

- **Oracle OCI AI Foundations Associate**
- Harvard University CS50 Python Certification
- **IBM Web Development Fundamentals**