Aman Raj

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EDUCATION

- **Faculty of Technology, University of Delhi, New Delhi**   [August 2024 - Present]
  B. Tech, Computer Science and Engineering (1st Year): CGPA: N/A
- **National Institute of Advance Manufacturing and Technology, Ranchi**   Aug 2023 - Jan 2024
  B. Tech, Mechanical Engineering - Dropped out
  After exploring various fields, got passionate interest in Coding and Technology

SKILLS

- **Programming:** C, Java(Intermediate), HTML, CSS, JavaScript, PHP, Python (Intermediate), Android Development (Basics)
- **Software and Technologies:** Pandas (Basic), Dart, Google Cloud, YOLO, OpenCV, Canvas
- **Others:** Linux, DevOps(Basic), Git-GitHub, Arduino, Raspberry pi, Promet Engineering, Windows
- **UI/UX:** Canvas, PhotoShop CS

UI/UX/GRAPHICS WORK

Graphic Designer – CODE CATALYST, College Coding Club
Designed the official club logo, ID card, event banners, and custom envelopes to establish a consistent visual identity.

- Created a **logo for Jazbaa**, the college cultural club, aligning with the club's artistic and dynamic theme.
- Collaborated with club members to ensure designs matched the technical and creative vision of the organisation.

Freelance Graphic Designer – Shalimar Sweets
Developed promotional materials for the brand and contributed to their marketing.

- Delivered graphics optimised for print and social media, ensuring brand it's digital publicity.

Some Samples of my UI/UX and Design is attached below:
Drive Link - CLICK HERE FOR SAMPLES

PROJECTS

- **AI Based Traffic Management for Traffic Lights**
  YAML, YOLO, OpenCV, Python, Pygame, Pandas | **GitHub**

  Objective: Develop an AI system to optimise traffic light timings based on real-time data.
  Solution: Use sensors and AI to dynamically adjust lights timing for smoother traffic flow.
  Features: Real-time monitoring, AI optimisation, emergency vehicle priority.
  Outcome: Reduce congestion, improve travel experience, saves time and lower fuel consumption.

- **AI Based Sustainable Solution for Cleaner AIR in Delhi**
  HTML, CSS, JavaScript, Pandas, MongoDB | **GitHub**

Objective: Develop an AI-driven system to monitor and reduce air pollution in Delhi through real-time data analysis and targeted interventions.

Solution: Use AI to analyse air quality data, identify pollution sources, and optimise solutions like traffic management and industrial emissions control.

Features: Real-time air quality monitoring, pollution source detection, predictive analytics, and automated recommendations for pollution reduction.

Outcome: Improve air quality, reduce health risks, and promote sustainable urban practices for cleaner air in Delhi.

EXTRACURRICULAR ACTIVITIES

- **HEAD BOY (**In School**)**
1. Led and represented the student body, ensuring discipline and good atmosphere.
2. Organised school events, activities.

- **CORE MEMBER**
  Code Catalyst: Coding club   [January 2025 - Present]
1. Always collaborate with team members to plan and execute club events, workshops, and initiatives.
2. Involved in decision-making processes and strategic planning for club growth and activities.
3. Actively engaging with members, fostering a collaborative and inclusive environment.

Challenges Faced

Always need to ensure good bond between club members so that no conflict can happen, how to engage more and more students and need to take wise decisions.

- **Volunteered in UDGAAR**
  Ethiccraft club: Volunteered in Udgaar where more than 8000 students joined the event

ACHIEVEMENTS

- **Hindustan Olympiad:** Hindustan Olympiad 2017 - ranked *20th in district* and *23rd in State*
- **National Hindi Olympiad - भाषा विशारः** Hindi Olympiad 2019 - *ranked 2nd (Nationwide)*
- **National Mathematics Contest:** Top performer of our Team, organised by *The Hindu*
- **SIH 2024:** Secured top rank in Internal College Round (including all University of Delhi Colleges) of Smart India Hackathon.
- **Smart Delhi Ideathon:** Participated and lead the team in Smart Delhi Ideathon 2025 but unfortunately failed to make it to Finals.