Aditya Singh

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Technical Skills

Languages: Python, C++, SQL , HTML, CSS, Javascript
Frameworks and Libraries: Matplotlib, Seaborn, Pandas, Numpy, Nodejs, Reactjs

Databases: MySQL, MongoDBCompass
Visualization: Tableau, Power BI

Projects

Drowsiness Detection System

May 2025 – Mar 2025

- Developed real-time alert system with 95% accuracy using facial landmark detection
- Processed 30+ FPS video feed with <0.5 sec latency
- Implemented EAR algorithm for early fatigue detection
- Reduced simulated accident risk by 40% in testing

Advocate Website Full Stack Web Application **Jan 2025 – Apr 2025**

- Engineered responsive frontend using React and Tailwind CSS that achieved 95%+ Lighthouse scores (Performance, Accessibility, SEO) through code-splitting and lazy loading.
- Developed 15+ secure RESTful APIs (Node.js/Express) implementing JWT authentication for appointment scheduling, contact forms, and admin dashboard functionality.
- Optimized MongoDB operations through schema design and indexing strategies, reducing CRUD latency by 40% for 1K+ daily legal queries.
- Architected CI/CD pipeline on Render resolving SPA routing issues, achieving 99.9% uptime and eliminating 404 errors on refresh.

Diwali Sales Analysis using Python **Mar 2022 – Jul 2022**

- Analyzed 50,000+ transactions to identify key demographics: Married women (82%) aged 26-35 from UP, MH, KA
- Visualized top 10 products contributing to 65% of festive revenue ($1.2M)
- Optimized inventory leading to 20% reduction in cart abandonment
- Implemented time-based promotions (7-10 PM peak hours) boosting engagement by 15%

Certifications

- Deloitte Data Analytics Job Simulation Certification |Forage|2025
- Python Programming | Coursera | 2023
- Tableau Data Visualization | Coursera | 2023
- Java Programming | Coursera | 2022
- Discrete Mathematics | NPTEL | 2022

Education

Chandigarh University, Punjab **Aug 2021 – Jul 2025**
Bachelor of Engineering in Computer Science |CGPA: 7.56

St Xavier High School, Gonda
Intermediate (CBSE) | Percentage: 81.8% **2021**
High School (CBSE) | Percentage: 87.2% **2019**