

Aditya Kumar

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OBJECTIVE

Ambitious and detail-oriented engineering student, seeking to leverage development and programming skills in a challenging role. Passionate about creating innovative solutions and improving experiences through technology. Committed to continuous learning and contributing effectively to team projects in a dynamic environment.

EDUCATION

- BMS College of Engineering** Bengaluru, India
Bachelor of Engineering - Computer Science; GPA: 8.21
Nov 2022 - Jun 2026
- Vidya Sanskar School** Patna, India
PCM; Percentage: 75.2
April 2019 - Jun 2021
- Literati Public School** Gaya, India
Metriculation; Percentage: 92.4
April 2018 - Mar 2019

SKILLS SUMMARY

- Languages:** C, C++, JavaScript, HTML5, CSS3
- Frameworks:** Bootstrap, Tailwind, jQuery, EJS, React.js
- Tools:** GIT, GitHub, VS Code, MySQL, Android Studio, MongoDB, MS Office, PyCharm
- DataBases:** MongoDB, Firebase, SQL
- Coursework:** Data Structures and Algorithms, OOPs, Operating Systems, DBMS, Computer Networks
- Platforms:** Linux, Web, Windows
- Soft Skills:** Leadership, Team Work, Adaptability, Public Speaking, Time Management

EXPERIENCE

- Samsung PRISM** Virtual
Project Intern
March 2025- Present
Working as a Research Intern under Samsung PRISM on 'Human Motion Estimation using Physics-Guided Diffusion Models', developing transformer-based architectures for generating realistic 3D motion sequences.
- CodSoft** Virtual
Web Developer Intern
June 2025- July 2025
Developed and deployed responsive web projects during a CodSoft internship, showcasing expertise in HTML, CSS, JS, and GitHub workflows. Built a portfolio, calculator, and creative landing page with a user-centric approach.

PROJECTS

- Typzy-Dynamic Typing Challenge Platform:** An interactive web application that improves typing speed and accuracy using randomized quotes from an API. Tracks real-time performance metrics like WPM, accuracy, and mistakes, with dynamic difficulty levels, countdown animations, a ranked Firebase leaderboard, and visual performance charts using Chart.js.
- Dynamic Smart Traffic Light Control System using Computer Vision:** Implemented the YOLOv8 algorithm to enhance object detection efficiency from 36% to 92%. Employed OpenCV for image overlay and integrated Pygame for both hardcoded and advanced traffic system simulations, showcasing the enhanced traffic control system.
- Gender Bias Detection and Analysis:** Developed a web-based gender bias analysis system using Flask (Python), HTML, CSS, and JavaScript, allowing users to upload workforce CSV files and automatically generate interactive visualizations (matplotlib, seaborn) to detect gender disparities, using Random Forest and SVM for ML-based classification.
- SWAAD:** Worked on the front end of an online food delivery website using HTML, CSS, and JavaScript, with features including user authentication, order placement, and Razorpay payment gateway integration. Integrated Google Maps API for location services and applied modern styling frameworks for an enhanced user experience.

CERTIFICATIONS

- AWS Educate Introduction to Cloud 101 - Amazon Web Services
- Career Essentials In Generative AI - LinkedIn & Microsoft
- Responsive Web Design - freeCodeCamp
- Google AI Essentials - Coursera
- SQL (basic) - HackerRank

ORGANISATIONS

- NSS Unit Of BMSCE : Participated in community services like NGO support, walkathons, Plantations, Cleanathon and Cancer Awareness.