

Vipul Kumar Singh

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[Portfolio](#)

ABOUT

Highly motivated and skilled Computer Science student with a strong foundation in **Data Structures and Algorithms (DSA)**, seeking opportunities to apply and expand my knowledge in software development and AI/ML. Proven ability to learn and adapt quickly, with a passion for building innovative and impactful solutions. Excellent communication and teamwork skills, eager to contribute to a collaborative and challenging environment.

EDUCATION

Degree/Certificate	Institute/Board	GPA/Percentage	Year
B.Tech. (CSE)	Sharda University	7.5 (Pursuing)	2025
Minor in AI	IIT Ropar	Pursuing	2025
12th	LBS Convent School Kota, CBSE Board	86%	2020

EXPERIENCE

- Neophyte Consulting Services** Apr 2024 - Jun 2024
Web Developer
 - Learned and applied skills in the MERN stack (MongoDB, Express.js, React, Node.js).
 - Developed full-stack web applications, managed databases, created RESTful APIs, and built dynamic, responsive user interfaces.
- Techgyan Technologies** Jun 2023 - Aug 2023
AIML Associate Intern
 - Developed a predictive Machine Learning model improving data analytics by 20%.
 - Collaborated with a team of 4 to design and implement a project management tool.
 - Refined algorithmic efficiency for project workflows, reducing process time by 15%.

PROJECTS

- Paytm Wallet Clone**
Implemented user authentication and authorization. Designed relational database schema using MongoDB and integrated API.
- Twitter Clone**
Developed REST APIs for data retrieval and updates. Implemented real-time push notifications using Socket.IO and React.
- Personal Portfolio Website**
Enhanced skills in HTML, CSS, JavaScript, and responsive design. Implemented dynamic content and optimized for user experience.
- Micro Instagram Backend**
Developed RESTful APIs for user and post management. Implemented features like user authentication, authorization, and data validation for a robust backend system.
- Image Entities Extraction**
Developed a dimension extraction pipeline using Google Vision API and CNNs. Achieved 65% accuracy on 200,000 samples.
- AI-Powered Group Trip Matching App**
Developed a platform for personalized trip recommendations using AI/ML. Designed UI/UX with Figma and implemented features.

TECHNICAL SKILLS

- Programming Languages:** Advanced C++, Python, JavaScript, TypeScript
- Web Development:** React, Express, Node.js, Next.js, API Design and Development
- AI/ML:** Prompt Programming, Data Handling, Neural Networks + Advances (LLMs), Computer Vision (CV), Natural Language Processing (NLP)
- Databases:** MongoDB, PostgreSQL, MySQL
- DevOps:** Docker, AWS, Kubernetes, Jenkins, GitLab CI/CD
- Version Control:** GitHub
- Competitive Programming (CP):** Proficient in data structures and algorithms, participated in coding competitions
- Computer Fundamentals:** Strong understanding of operating systems, networking, DBMS, and computer architecture

SOFT SKILLS

- Communication, Teamwork, Problem-solving, Leadership