Harshal Singh Vats

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SUMMARY

BCA 5th Semester student (CGPA ~8.55) skilled in OOP, DSA, and backend development with C, Python, JavaScript, Node.js, Express, and Go. Adept at building scalable systems, applying statistical insight to projects, and thriving in complex, problem-solving environments.

EDUCATION

BACHELOR OF COMPUTER APPLICATIONS

Sarala Birla University · Ranchi, India · 2026 · 8.55/10

EXPERIENCE

FullStack Engineer

EdEarn (A WebSpace IT Solution Pvt. Ltd. initiative)   **March 2025 – Present, Ranchi, India**

· Contributed to the end-to-end development of EdEarn by designing and implementing intuitive, responsive frontends.
· Leveraged AI-assisted development tools to accelerate design workflows and reduce turnaround time.
· Developed and maintained **RESTful API** endpoints and implemented backend logic using **Node.js**, with **MongoDB** for schema-less data storage and efficient querying.

Intern

JustTutors (A NCREduServices initiative)   **June 2025 – August 2025, Remote**

· Developed a virtual tutor system using APIs for speech recognition (STT), natural voice responses (TTS), and educational content delivery.
· Did **R&D** from scratch to completely design the deliverable.
· Assisted in backend development using **Python** to manage **API integration**, session handling, and response generation.
· Worked closely with senior developers and instructional teams to align system behavior with educational workflows and user experience goals.

PROJECTS

Video Player (Local, Browser-Based)

April 2025 – April 2025
· Built a browser-based video player with real-time stream handling in Node.js, enabling seamless playback of large media files.
· Reduced buffering by optimizing read-write pipeline latency..

Titanic Survivor Prediction Model

titanic-survival-hsv.streamlit.app/ · February 2025 – February 2025
· Built a machine learning model using Python and Scikit-learn to predict Titanic passenger survival, achieving 82% accuracy through advanced preprocessing, EDA, and feature engineering.

Disease Prediction Model

hsv-disease.streamlit.app/ · January 2025 – January 2025
· Developed ML-powered Streamlit app predicting diabetes/heart disease (88% accuracy), reducing manual diagnosis input time by 40%.

SKILLS

· **Programming & Frameworks:** Python, Go, JavaScript, C, SQL · Express, React · Node.js
· **Databases & Platforms:** MySQL, PostgreSQL · Windows, Linux
· **Domains & Soft Skills:** Artificial Intelligence, Full-Stack Development · Problem Solving, Adaptability, Creative Thinking, Teamwork, Communication, Time Management

INVOLVEMENT

Campus Ambassador

Ranchi, India · GSSOC
· Acted as a campus ambassador spreading awareness about open source and GSSoC amongst my fellow tech enthusiasts.

Head of Machine Learning

Ranchi, India · Google Developer Group on Campus SBU · October 2024 – June 2025
· Led machine learning initiatives within the GDG chapter, organizing workshops, coding sessions, and speaker events for student upskilling.