Harshal Singh Vats

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SUMMARY

BCA 5th-semester student (CGPA 8.55) skilled in OOP, DSA, and full-stack development using the MERN stack, C, Python, and Go. Builds scalable, data-driven systems with analytical precision and problem-solving expertise

EDUCATION

BACHELOR OF COMPUTER APPLICATIONS
Sarala Birla University · Ranchi, India · 2026 · 8.55

EXPERIENCE

FullStack Engineer
EdEarn   **August 2025 – Present, Remote**
- Contributed to the end-to-end development of EdEarn by designing and implementing intuitive, responsive frontend.
- Leveraged AI-assisted development tools to accelerate design workflows and reduce turnaround time by 25 hours.
- Developed and maintained RESTful API endpoints and implemented backend logic using Node.js, with MongoDB for schema-less data storage and efficient querying that saved costs of DB hosting and improved query performance by 30% enabling faster user response times.

Artificial Intelligence Research Intern
JustTutors   **June 2025 – August 2025, Remote**
- Engineered a virtual tutor system integrating speech recognition (STT), text-to-speech (TTS), and content delivery APIs, enabling interactive learning experiences.
- Assisted in backend development with Python, implementing API integration, session management, and response generation, which improved system reliability by 25%.
- Collaborated with senior developers and instructional teams to align technical workflows with pedagogy, achieving a 65% satisfaction rate in initial pilot testing.

Fullstack Developer Intern
EdEarn   **March 2025 – June 2025, Remote**
- Contributed to the end-to-end development of EdEarn by designing and implementing intuitive, responsive frontend.
- Leveraged AI-assisted development tools to accelerate design workflows and reduce turnaround time by 10 hours.
- Developed and maintained RESTful API endpoints and implemented backend logic using Node.js, with MongoDB for schema-less data storage and efficient querying that saved costs of DB hosting and improved query performance by 20% enabling faster user response times.

PROJECT

Titanic Survivor Prediction Model
titanic-survival-hsv.streamlit.app/
- 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. This project showcases my data analysis and modelling skills.

Disease Prediction Model
hsv-disease.streamlit.app/
- Developed ML-powered Streamlit app predicting diabetes/heart disease (88% accuracy), reducing manual diagnosis input time by 40%.

INVOLVEMENT

Head of Machine Learning
Ranchi, India · Google Developer Group on Campus SBU · October 2024 - June 2025
- Led machine learning initiatives within the GDG chapter, organized workshops for 100 students & several coding sessions, guided more than 20 students on how to break into the domain of machine learning.

SKILLS

Programming & Frameworks: Python, Go, JavaScript, C, SQL, Express, React.js, 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