Harshal Singh Vats

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EDUCATION

BACHELOR OF COMPUTER APPLICATIONS   Ranchi, JH
Sarala Birla University   Expected July 2026
Cumulative CGPA: 8.55/10; Cumulative GPA : ~3.42/4.0
Coursework: Data Structures, Software Engineering; Operating Systems; Algorithms; Artificial Intelligence, Computer Networks

WORK EXPERIENCE

EdEarn (A WebSpace IT Solution Pvt. Ltd. initiative) - **FullStack Engineer**   Ranchi, JH
                                                                          Mar-2025 – Present
- 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.

JustTutors (A NCREduServices initiative) - **Intern**   Remote
                                                                          Jun 2025 – Present
- 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

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

Titanic Survivor Prediction Model
- 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.

Video Player (Local, Browser-Based)
- 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..

ACTIVITIES

Google Developer Group on Campus SBU   Ranchi, JH
Head of Machine Learning   Oct 2024 – June 2025
- Led machine learning initiatives within the GDG chapter, organizing workshops, coding sessions, and speaker events for student upskilling.

GSSoC Campus Ambassador   Ranchi,JH
- Acted as a campus ambassador spreading awareness about open source and GSSoC amongst my fellow tech enthusiasts.

ADDITIONAL

Technical Skills: Python, Javascript, Go, Node.JS, C, SQL, React, Express
Domains and Systems: Windows, Linux, OOP, System Design, Artificial Intelligence, FullStack Development
Soft Skills: Problem Solving (35+ LeetCode problems; actively solving SQL on HackerRank – Silver badge), Adaptability, Creative Thinker, Teamwork, Communication, Time Management