

Harsh Deep

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PROFILE

Computer Science student with expertise in full-stack development using **Node.js (Express.js)** and **Python (Flask)**. Worked with DevOps tools like **Git**, **Prometheus**, **Grafana** and cloud platforms like **GCP** and **AWS Amplify**. Eager to apply a strong foundation in **Software Engineering Principles** and **data-driven** strategies.

EDUCATION

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| B.M.S College of Engineering, Bengaluru - <i>B.E in CSE (Data Science) CGPA: 8.52</i> | Karnataka, India 2022 – Present |
| Delhi Public School, Bokaro - <i>Class XII (CBSE PCM) 90.5%</i> | Jharkhand, India 2020 – 2021 |

SKILLS

Languages: Java, C/C++, Python, JavaScript
Web Development: React.js, Tailwind CSS, RESTful APIs, Node.js (Express.js)
Databases: MySQL, PostgreSQL, MongoDB
DevOps & Cloud: Git, GCP, AWS Amplify, Alertmanager, Prometheus, Grafana, Postman
ML Technologies: Deep Learning, Computer Vision, Flask, OpenCV, MediaPipe, TensorFlow, Scikit-learn, Seaborn
CS Fundamentals: Data Structures & Algorithms, OOP, DBMS, Operating Systems, Computer Networks

EXPERIENCE

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| Samsung R&D Institute <i>Project Intern</i> | Bengaluru Mar 2025 – Present |
| <ul style="list-style-type: none">– Collaborating with senior engineers to design, develop, and test an on-device agent using Vision Language Models (VLMs) to extract and interpret TV screen content.– Applied Salesforce BLIP model for facial recognition of Hollywood and Bollywood actors, achieving an accuracy of 90% in actor identification and scene localization. | |
| Phase Shift - Technical Fest <i>Event Coordinator</i> | Bengaluru Nov 2024 – Dec 2024 |
| <ul style="list-style-type: none">– Led and coordinated a coding and data science event, demonstrating strong communication and leadership by mentoring 5 volunteers in event operations, resulting in 95% positive feedback rating from participants. | |

PROJECTS

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| API Server GitHub <i>Node.js, Prometheus, Grafana, Postman</i> | |
| <ul style="list-style-type: none">– Engineered a Node.js API server with a full observability stack, instrumenting 5+ key performance metrics.– Implemented Prometheus to scrape 10+ metrics and standard HTTP metrics from the server, providing real-time performance insights across 5+ API endpoints and improving system stability visibility by over 50%.– Developed 6+ Grafana dashboards with proactive alerts using Alertmanager to flag security and performance anomalies (e.g., unusual error rates, resource spikes), reducing issue identification time by 20%. | |
| Explore Bharat GitHub Live Link <i>Express.js, REST APIs, MySQL</i> | |
| <ul style="list-style-type: none">– Created an end-to-end full-stack travel platform, designing a responsive user interface and a scalable server-side architecture with Express.js.– Designed a relational data model in MySQL and secured RESTful APIs using Express.js, ensuring reliable communication between the frontend and backend.– Performed data analysis and performance tests to optimize server-side logic, reducing average page load time by 20%. | |
| Fi Compass GitHub <i>Python, React, Firebase, GCP, Gemini</i> | |
| <ul style="list-style-type: none">– Architected and delivered Fi Compass, a proof-of-concept AI financial partner that shifts personal finance from reactive tracking to proactive planning.– Orchestrated the integration of a mock data server, a React frontend, a Gemini-powered backend and a Firebase NoSQL database to deliver a complete, demo-ready proof-of-concept.– Built and deployed a conversational Financial Guru using Google's Vertex AI, connecting it to a custom knowledge base to provide users with instant, in-app explanations of complex financial terms. | |

PUBLICATION

Harsh Deep *et al.*, “IntelliMotion: Real-Time Hand Gesture and Pose Tracking Using OpenCV and MediaPipe”, **IEEE ETCC 2025**, Bengaluru. | [Paper Link](#) | [GitHub](#)

ACHIEVEMENTS AND CERTIFICATIONS

- **Finalist** in **Google Cloud Agentic AI Day Hackathon 2025**, ranked in the top 7% nationwide, selected among top 704 out of 9,100+ applicants. - [Link](#)
- Qualified **Aptitude & Logical Reasoning** Round of HackVega Hiring Challenge - [Hack Vega](#)
- Secured **93.7% ile** in Naukri Campus Young Turks Skills Contest - [Naukri Campus](#)