Harshit Jain

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EDUCATION

Vellore Institute of Technology (VIT)   Sept 2022 – Present
B.Tech in Computer Science   *CGPA: 7.89**

EXPERIENCE

Bluestock Fintech   Nov 2024 – Dec 2024
Software Development Engineer Intern (Remote, Performance-Based)   *Pune, Maharashtra*
- Contributed to Bluestock's web platform serving 5L+ users and 23M+ impressions; work deployed to production.
- Engineered RESTful APIs using Node.js and Express, reducing average response time by 40%
- Built 10+ React.js components and PostgreSQL-backed features, boosting load performance by 30%.

PROJECTS

Traffic Flow Optimization and Congestion Management

Python, OpenCV, Streamlit (GitHub)
- Built a CV and ML-based tool for estimating traffic signal timers from junction video footage.
- Used object detection, density analysis, and routing algorithms to optimize junction control.
- Deployed using Streamlit for live visualization and interaction.

Retro Games with Gestures

Python, OpenCV, MediaPipe, Streamlit
- Developed gesture-controlled retro games playable via webcam using hand-tracking.
- Used MediaPipe for real-time gesture detection mapped to game controls.
- Implemented classic games with real-time interaction in Python.

Learnod

Javascript,ReactJs,NodeJs
- Built Learnod, an interactive learning platform integrating video tutorials with a real-time code editor—enhancing hands-on coding practice and improving learner engagement and retention.
- Integrated React Monaco Editor for seamless in-browser coding and styled the platform with TailwindCSS, delivering a responsive, intuitive interface that mirrors professional development environments.
- Conceptualized the Learnod application's user interface within the layout editor, enabling seamless transition and interaction between 10+ distinct tutorial scenes, enhancing the overall user experience and engagement.

SKILLS

Expertise: Machine Learning, Information Retrieval, Data Storage, Computer Vision, Natural Language Processing, API Development, Web Development, Frontend, Backend

Languages: Python, JavaScript, C++, SQL, HTML/CSS

Frameworks: React.js, Node.js, Express, OpenCV, Streamlit, PostgreSQL, Firebase

Tools: Git, GitHub, VS Code, Linux, Figma, Postman

CERTIFICATIONS & ACHIEVEMENTS

- NPTEL: Privacy and Security in Online Social Media (Link)
- Coursera: Applied Machine Learning in Python (Link)
- FacePrep: MongoDB Associate Database Administrator (Link)
- VIT: Python Essentials (Link)
- VIT: Computer Vision (Link)
- **Achievements:** Semi-Finalist, Karnataka Police Datathon (among 1000+ competing teams).
- **Extra-Curricular:** Drove club growth and expanded its professional network as a PR & Outreach Member for the FinTech Club.