

Harsh Raj

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EDUCATION

VIT Bhopal University
B.Tech in Computer Science and Engineering

Bhopal, India
CGPA: 8.48/10

TECHNICAL SKILLS

Machine Learning: Python, Scikit-Learn, TensorFlow, OpenCV
Full Stack: React.js, Node.js, Express, MongoDB

EXPERIENCE

UI/UX Designer *January 2023 – June 2023*
VroomVerse, Remote

- Crafted and deployed a responsive UI with Figma and Tailwind CSS, reducing page load times by 20%.
- Refined user interaction flows and improved visual hierarchy, elevating engagement by 15%.

Data Intern *July 2024 – August 2024*
Visyntro, Remote

- Facilitated client interactions and maintained structured reports for cross-functional stakeholders.
- Automated repetitive ETL workflows using Python and Google Sheets API, reducing manual overhead by 30%.

PROJECTS

Multi-Modal House Price Estimation | Python, Scikit-learn, TensorFlow, OpenCV

- Architected a multimodal regression model utilizing 1500+ property listings with both textual and image data.
- Attained an R^2 score of 0.92 by integrating VGG16-based CNN features with structured data using MLPs.
- Applied OpenCV for feature extraction and TensorFlow pipelines for model fusion and training.

Full-Stack Social Media App | React.js, TypeScript, Appwrite, React Query

- Built a modern social media app with responsive UI and native mobile feel using React.js, TypeScript, and Appwrite.
- Implemented authentication, infinite scrolling, post interactions, and optimized performance with React Query.
- Designed a modular codebase with reusable components and clean folder structure for maintainability.
- Integrated Appwrite BaaS for database, file storage, and user authentication, streamlining backend development.

ACHIEVEMENTS

Hackstasy Hackathon – SRM University *April 2025*
– Finalist: Ranked Top 20 among 300+ participants.

- Devised a real-time traffic signal optimizer leveraging OpenCV and ML-based congestion heatmaps.
- Reduced traffic latency in simulations through intelligent signal control.

Karnataka State Police Datathon *Feb 2024*
– Semi-finalist: Placed among the top 6 of 250+ teams.

- Delivered an AI solution that minimized congestion prediction error by 20%.

CO-CURRICULAR

Open-Source Contributor *May 2023 – July 2023*
Social Summer of Code, Remote

- Collaborated with 8000+ developers on open-source projects hosted on GitHub during SSOC.
- Merged 4 pull requests by refactoring code, fixing issues, and integrating new features.
- Revamped contributor onboarding guides, increasing repository engagement by 25%.

EXTRA-CURRICULAR ACTIVITIES

PR Lead – Data Science Club & Dance Club *Sep 2023 - June 2025*
VIT Bhopal University, Bhopal

- Spearheaded over 5 technical workshops, growing participant turnout by 50%.
- Mentored juniors and coordinated inter-college technical and cultural festivals.