

Harsh Raj

+91 6207504740 | harshraj2828@gmail.com | [LinkedIn](#) | [GitHub](#)

PROFESSIONAL SUMMARY

Versatile Machine Learning Engineer and Full Stack Developer skilled in designing and deploying AI-powered web solutions. Delivered deep learning systems with 40% performance gains. Proficient in Python, TensorFlow, React, and AWS, with accomplishments spanning open-source contributions, hackathons, and production-grade builds.

EDUCATION

VIT Bhopal University <i>B.Tech in Computer Science and Engineering</i>	<i>Bhopal, India</i>
DAV Public School <i>Class XII</i>	<i>CGPA: 8.57/10</i> <i>Patna, India</i>
DAV Public School <i>Class X</i>	<i>Percentage: 86.4% 2021</i> <i>Patna, India</i> <i>Percentage: 87.8% 2019</i>

TECHNICAL SKILLS

Languages: Python, C++, Java, JavaScript, HTML, CSS, SQL
Frameworks & Libraries: React.js, Next.js, Node.js, Express, TensorFlow, Scikit-learn, OpenCV, Tailwind CSS, Syncfusion
Tools & Platforms: Git, Docker, AWS, MongoDB, Postman, Figma, ETL Pipelines, GitHub, Google Colab
Concepts: Machine Learning, CNNs, MLPs, REST APIs, Agile, Version Control

PROFESSIONAL EXPERIENCE

UI/UX Designer <i>VroomVerse, Remote</i>	<i>January 2023 – June 2023</i>
<ul style="list-style-type: none">– 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%.	
Open-Source Contributor <i>Social Summer of Code, Remote</i>	<i>May 2023 – July 2023</i>
<ul style="list-style-type: none">– 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%.	
Data Intern <i>Visyntro, Remote</i>	<i>July 2024 – August 2024</i>
<ul style="list-style-type: none">– 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 | MongoDB, Express, React, Node.js**
- Engineered a MERN stack platform with authentication, real-time chat, and content sharing features.
 - Optimized server-side APIs and MongoDB queries, accelerating response times by 35%.

ACHIEVEMENTS

Hackstasy Hackathon – SRM University (Microsoft + YouTube)	<i>April 2025</i>
<ul style="list-style-type: none">– 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	<i>Feb 2024</i>
<ul style="list-style-type: none">– Semi-finalist: Placed among the top 6 of 250+ teams.– Delivered an AI solution that minimized congestion prediction error by 20%.	

EXTRACURRICULAR ACTIVITIES

- Core Member – Data Science Club & Dance Club**
- Spearheaded over 5 technical workshops, growing participant turnout by 50%.
 - Mentored juniors and coordinated inter-college technical and cultural festivals.

CERTIFICATIONS

Web Development Specialization – Coursera	<i>December 2023</i>
AWS Academy Cloud Architecting – Associate Level – Ethnus	<i>April 2025</i>
MERN Stack Full-Stack Development Certification – Ethnus	<i>April 2025</i>