

PRATEEK NARAIN

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Skills

Java, Python, HTML, CSS, Tailwind CSS, JavaScript, React.js, Node.js, Next.js, MySQL, Numpy, Pandas, OpenCV, MongoDB, Git/GitHub, Data Structures and Algorithms.

PROJECTS

TrustWave AI | Python, TensorFlow, PyTorch, OpenCV, scikit-learn

- Engineered an optimised ResNeXt-LSTM model for video analysis, decreasing inference latency by 200ms per video and reducing false positives by 15%, enhancing real-time performance.
 - Spearheaded the development and deployment of machine learning models, leveraging hyperparameter tuning to optimise inference time by 180ms, enhancing overall performance metrics.
 - Developed advanced algorithms to detect and neutralise manipulated media, which boosted the system's accuracy and reliability by 35%.
- **Role:** Machine Learning Engineer

Hast-Akshar | Python, TensorFlow, OpenCV, FastAPI, scikit-learn

- Created real-time Hindi sign language interpretation system using custom CNN architecture, achieving 95% classification accuracy on 800+ gesture dataset.
 - Implemented complete gesture recognition pipeline with PyTorch and OpenCV, including data preprocessing, augmentation, and model training workflows.
 - Built RESTful API using FastAPI for seamless integration, reducing response time to under 50ms per gesture prediction.
- **Role:** Machine Learning Engineer

Vehigo - Car Rental Web Application | HTML, CSS, JavaScript, Django

- Developed full-stack car rental web application with responsive UI supporting users across 5 distinct user roles.
 - Integrated secure payment gateway and user authentication system, ensuring 99.9% transaction success rate.
 - Built real-time vehicle tracking dashboard with live GPS integration and automated notification system, reducing manual customer communication by 80%.
- **Role:** Frontend Developer

ACHIEVEMENTS

GirlScript Summer of Code 2025 (GSSOC25) - Mentor:

- Mentored 50+ contributors in full-stack development for India's largest open-source program, conducting weekly technical sessions on new ideas and implementation practices.

Zelestra x AWS ML Ascend Challenge 2025 - Finalist:

- Secured Rank 35 out of 7,400+ participants by developing an 89.90387% accurate solar panel efficiency prediction model using ensemble techniques (XGBoost, Random Forest, Neural Networks) and presenting the ML pipelines.

The Eureka Club - Social Media Team Lead:

- Led a 15-member team for the 100+ member university tech club, boosting engagement by 150% by organising workshops and hackathons for over 200 participants each.

Certifications:

- GEN AI Using IBM Watsonx:** Acquired practical skills in utilising the IBM Watsonx platform for prompt engineering, fine-tuning foundation models, and developing enterprise-level AI applications.
- OCI Generative AI Professional:** Acquired technical proficiency in designing and deploying scalable generative AI solutions using Oracle Cloud Infrastructure's specialised services.

EDUCATION

Vellore Institute of Technology, Bhopal <i>B.Tech in Computer Science and Engineering</i>	September 2022 – May 2026 (Expected)
Central Board of Secondary Education <i>Senior Secondary Education</i>	CGPA: 8.83/10 May 2022
Central Board of Secondary Education <i>Secondary Education</i>	Percentage: 90% May 2020
	Percentage: 88%