

PRATEEK NARAIN

Hisar, Haryana

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Skills

Java, Python, HTML, CSS, Tailwind CSS, JavaScript, React.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 a 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
B.Tech in Computer Science and Engineering
Central Board of Secondary Education
Senior Secondary Education
Central Board of Secondary Education
Secondary Education

September 2022 – May 2026 (Expected)
CGPA: 8.84/10
May 2022
Percentage: 90%
May 2020
Percentage: 88%