

PRATEEK NARIAN

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, Problem Solving(DSA).

PROJECTS

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

- Integrated ResNeXt and LSTM networks into the detection pipeline, reducing false positives by 15% and improving inference time by 200ms per video.
- Designed and deployed scalable ML models using Python, TensorFlow, Keras, and scikit-learn, optimizing performance through hyperparameter tuning and key metrics like ROC-AUC and F1-score.
- Enhanced system robustness and accuracy by 35% through the development of advanced detection algorithms to identify and mitigate synthetic media manipulation.
- **Role: Machine Learning Engineer**

Hast-Akshar | Python, TensorFlow, OpenCV, FastAPI, Sci-kit-learn

- Developed Hast-Akshar, a real-time Hindi sign language interpretation system using custom CNN architectures and computer vision, achieving 95% classification accuracy on a uniquely curated dataset.
- Built a full gesture recognition pipeline with PyTorch and OpenCV, applying tailored data preprocessing, augmentation, and end-to-end model training for high accuracy on real-user input.
- Deployed the system with real-time video processing capabilities, enabling seamless translation of Hindi sign language gestures into text with optimized inference speed for practical accessibility applications.
- **Role: Machine Learning Engineer**

Vehigo - A car Rental site | HTML, CSS, JavaScript, Django

- Developed Vehigo, a comprehensive car rental platform with an intuitive user interface enabling seamless vehicle booking, user authentication, and payment integration using HTML, CSS, JavaScript for frontend and Django framework for robust backend functionality.
- Implemented advanced features including real-time vehicle tracking system, booking management dashboard, and automated notification system, providing car owners with reliable fleet monitoring and customers with transparent rental experience throughout their journey.
- Architected a full-stack web application with responsive design principles, RESTful API integration, database optimization using Django, and deployed scalable solution supporting multiple user roles with secure data handling and transaction processing.
- **Role: Frontend developer**

ACHIEVEMENTS

Achievements: Finalist at Zelestra x AWS ML Ascend Challenge: Our team secured Rank 35 out of 7,400+ in the Zelestra X AWS ML Ascend Challenge 2025 by building a high-accuracy solar panel efficiency prediction system.

Mentor, GirlScript Summer of Code 2025 (GSSOC'25) Guided and mentored aspiring developers in open-source contribution, providing technical assistance and reviewing code to foster their growth in the tech community.

GEN AI Using IBM Watsonx: Acquired practical skills in utilizing 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 specialized services.

Leadership Extracurriculars

- **Social Media Team Leader**, Eureka Club - VIT Bhopal: Developed leadership and strategic communication skills by directing team projects to grow the club's online presence and engagement.

EDUCATION

Vellore Institute of Technology, Bhopal

September 2022 – Ongoing

B.Tech in Computer Science and Engineering

CGPA: 8.84/10

Central Board of Secondary Education

May 2022

Senior Secondary Education

Percentage: 90%

Central Board of Secondary Education

May 2020

Secondary Education

Percentage: 88%