

PRATEEK NARAIN

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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 – Ongoing

CGPA: 8.84

May 2022

Percentage: 90%

May 2020

Percentage: 88%

SKILLS & TECHNOLOGIES

- **Languages:** Java, Python, JavaScript.
- **Databases:** MySQL, MongoDB.
- **Web Technologies:** HTML, CSS, ReactJs,.

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.
- 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**

EXTRA-CURRICULAR AND ACHIEVEMENTS

Achievements: Zelestra x AWS ML Ascend Challenge (finalist) 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.

Responsibilities: The Eureka club (Social Media team lead) Responsible for managing collaborative teamwork for the progression of the club.

CERTIFICATIONS

- GEN AI Using IBM Watsonx – [IBM](#)
- OCI Generative AI Professional – [Oracle](#)