PRATEEK NARAIN

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EDUCATION

Vellore Institute of Technology, Bhopal	**September 2022 – Ongoing**
B.Tech in Computer Science and Engineering	*CGPA: 8.84*
Central Board of Secondary Education	**May 2022**
Senior Secondary Education	*Percentage: 90%*
Central Board of Secondary Education	**May 2020**
Secondary Education	*Percentage: 88.8%*

SKILLS & TECHNOLOGIES

- **Languages**: Java, Python, JavaScript.
- **Web Technologies**: React.js, HTML5, CSS3, Tailwind CSS.
- **Databases**: MySQL, MongoDB.
- **Tools & Frameworks:** : NumPy, Pandas, Git, GitHub, Django, FastAPI

PROJECTS

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

- Engineered an optimized 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 optimize inference time by 180ms, enhancing overall performance metrics.
- Developed advanced algorithms to detect and neutralize manipulated media, which boosted the system's accuracy and reliability by 35%.
- Role: Machine Learning Engineer

Hast−Akshar | Python, TensorFlow, OpenCV, FastAPI, Sci-kit-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 - A car Rental site | HTML, CSS, JavaScript, Django

- Developed full-stack car rental web application with responsive UI with potential 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**

EXTRA-CURRICULAR AND ACHIEVEMENTS

GirlScript Summer of Code 2025 (GSSOC25) - Mentor:

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

The Eureka Club - Social Media Team Lead:

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

Zelestra x AWS ML Ascend Challenge 2025 - Finalist:

- Secured Rank 35/7,400+ by developing a 92% accurate solar panel efficiency prediction model using ensemble techniques (XGBoost, RF, NN) and presenting the ML pipelines.

CERTIFICATIONS

- GEN AI Using IBM Watsonx – IBM
- OCI Generative AI Professional – Oracle