

Mansha Kshatriya

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Education

Vellore Institute of Technology, Oct 2022 – Present
B.Tech in Computer Science (Health Informatics)
• CGPA: 8.34/10

Skills

Programming Languages: Python, JavaScript, Java, C++, SQL
Frontend: React.js, HTML5, CSS3, Tailwind CSS
Backend: Node.js, Express.js, REST APIs
Databases: MongoDB, SQL
Machine Learning: Scikit-learn, TensorFlow, PyTorch, OpenCV, NLP (NLTK, spaCy)

Projects

Verdix – Full-Stack Sustainability Intelligence Platform: [Live] React, Node.js, Nov 2025
Express.js, TypeScript, Tailwind CSS, Google Gemini API

- **Situation:** Led full-stack app with AI-powered sustainability platform handling real-time product analysis.
- **Task:** Architected scalable microservices backend using Node.js/Express.js with TypeScript, reducing API latency by 40%.
- **Action:** Integrated Google Gemini AI for image recognition, processing 500+ product analyses daily with 92% accuracy
- **Result:** Enabled instant and reduced deployment time by 60% explainable sustainability scoring with a responsive,

BlazeFix – Forest Fire Risk Prediction System: [Live] Tech: React, Node.js, July 2025
Express.js, MongoDB, TypeScript

- **Situation:** Designed, developed, tested, and deployed scalable full-stack MERN applications processing 1000+ daily data points from satellite/weather APIs
- **Task:** Implemented Random Forest ML model achieving 88% prediction accuracy for fire risk assessment.
- **Action:** Configured MongoDB aggregation pipelines optimizing query performance by 70%.
- **Result:** Established automated alert system reducing incident response time by 65%.

PredictoCare – Breast Cancer Detection: [Live] Python, Machine Learning, Feb 2024
Scikit-learn, SHAP

- **Situation:** High false-negative rates in manual breast cancer diagnosis.
- **Task:** Build a machine learning model with >95% accuracy for tumor classification.
- **Action:** Engineered classification model using SVM on the Wisconsin Breast Cancer Dataset of 569 patients, reducing false negatives by 8% compared to manual diagnosis.
- **Result:** Achieved 97% accuracy with model explainability using SHAP for clinical interpretability.

Certifications

- Full Stack Developer (MERN) — SmartBridge (2025)
- MongoDB Associate Database Administrator (MongoDB DBA) — 2025
- API Testing with Postman — Google (2024)

Achievements & Leadership

Semi-Finalist, AI For Good Hackathon (Blend) — Aug 2026

- Selected in Top 12% for developing an ML-based solution improving real-time donor–patient matching

Content Core Team Member, UX Club — VIT Bhopal

- Created 30+ SEO-optimized articles and social media posts, increasing club engagement by 40%

Event Organizer, Gujarati Cultural Club — VIT Bhopal

- Planned and executed 3+ large-scale cultural events with 500+ attendees, managing budgets and logistics