Mansha Kshatriya

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Education

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

Skills

Programming Languages: Python, JavaScript, Java, C++, SQL
ML/DL Frameworks: : TensorFlow, PyTorch, Scikit-learn, OpenCV, NLTK, spaCy
Web API Tools: Streamlit, REST APIs, Postman, Git, Jupyter Notebook
Soft Skills: Team Leadership, People Management, Gujarati-English Translation, Excellent Communcation

Projects

RaktSetu – ML Blood Routing : FastAPI, Machine Learning ,Python, Uvicorn, JS   Aug 2025
- **Situation:** Emergency patients face delays due to slow, inefficient blood donor matching systems. .
- **Task:** Build a real-time, scalable platform to accelerate donor–patient matching.
- **Action:**Developed ML-powered FastAPI system with JS frontend, geo-matching, and automated alerts.
- **Result:**Reduced match time by ~60%; earned Hackathon Semi-Finalist.

PredictoCare – Breast Cancer Detection: Python, Machine Learning, Scikit-learn,   Apr 2024
SHAP
- **Situation:** High false-negative rates in manual diagnosis.
- **Task:** Build a model with >95% accuracy for tumor classification.
- **Action:** Performed feature engineering on 30+ attributes from the Wisconsin Breast Cancer Dataset optimized SVM (GridSearchCV).
- **Result:** 97% accuracy; deployed with explainability (SHAP/LIME) for doctors.

LinkedIn Post Generator : Python, Streamlit, Llama3, Groq API   Feb 2024
- **Situation:** Professionals lacked time for consistent LinkedIn engagement.
- **Task:** Developed and integrated a RESTful API using Groq and Llama3 for high-performance generation and preprocessing
- **Action:**Implemented keyword extraction (NLTK) and deployed via Streamlit with user feedback system
- **Result:** Helps user with 70% reduction in content creation time

Certifications

- Full Stack Developer (MERN) — SmartBridge (2025)
- Google IT Support — Coursera(2024)
- API Testing with Postman — Google(2024)

Extracurricular

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