

Parth Bijal Bharadia

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EDUCATION

Vellore Institute of Technology

B.Tech in Computer Science (Specialization: Health Informatics)

Bhopal, Madhya Pradesh

2022 – Expected 2026

- Cumulative GPA: 8.67 / 10

TECHNICAL SKILLS

Languages: C++, Python, SQL

Machine Learning: Linear & Logistic Regression, Decision Trees, Random Forest, Clustering, SVM

Deep Learning & Computer Vision: CNNs, Transfer Learning, Object Detection, Image Processing & Augmentation

Libraries & Frameworks: NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, OpenCV, PyTorch

Developer Tools: Streamlit, Jupyter Notebook, PyCharm, Git/GitHub, VS Code, Google Colab

PROJECTS

Car Damage Detection Using Deep Learning

June 2025

- Built and deployed a Streamlit web application using a fine-tuned ResNet50 model to classify car damage types(front/rear),using ResNet50 model, achieving 92% accuracy.
- Applied transfer learning by modifying the final fully connected layer with dropout and selectively unfreezing layers for optimal performance on limited dataset.
- Reduced overfitting using extensive image augmentation, improving validation accuracy by 15%.

CredX – Credit Risk Modeling

March 2025

- Deployed a live Streamlit application that predicts loan default probability using logistic regression on borrower demographics and credit history, delivering 85% accuracy.
- Designed a comprehensive credit scoring system (300-900) with risk ratings ('Poor' to 'Excellent') to support personalized lending decisions.

GhostBoard – AI Virtual Keyboard Using Hand Gestures

January 2025

- Developed a real-time touchless virtual keyboard using webcam-based hand tracking, achieving 95% gesture recognition accuracy.
- Integrated MediaPipe hand landmarks with pynput to simulate keystrokes, enabling direct typing into applications like Notepad without physical input.

CERTIFICATIONS

IBM Machine Learning Professional Certificate – IBM

Supervised Machine Learning: Regression and Classification – DeepLearning.AI (Stanford University)

Python for Computer Vision with OpenCV and Deep Learning – Udemy

ACHIEVEMENTS

Secured All India Rank 252 in National Defense Academy (NDA) examination demonstrating strong analytical aptitude, discipline, and competitive excellence.

Earned 5-star gold badges in Python and C++ on HackerRank, validating advanced problem-solving proficiency.

EXTRACURRICULAR ACTIVITIES

Served as lead anchor and emcee for "GlamVIT", a flagship college fashion event attended by over 200 participants, hosting the show, engaging the audience and managing on stage flow.

Core member of Gujarati club organizing team, co-managed the annual Navratri Garba festival for 300+ participants, overseeing promotions, venue setup, and volunteer coordination.