

# Parth Bijal Bharadia

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## Education

### Vellore Institute of Technology

Bachelor of Technology – Computer Science specialization in Health Informatics  
CGPA: 8.67

VIT Bhopal  
Oct 2022 – Oct 2026

## Key Skills

**Programming Languages:** Python, C++, SQL

**Machine Learning & Deep Learning Tools:** Scikit-learn, PyTorch, TensorFlow, Keras

**Computer Vision:** OpenCV, YOLO

**Data Science & Analytics:** Exploratory Data Analysis (EDA), Feature Engineering, Data Visualization

**Tools and Technologies:** Flask, Jupyter Notebook, VS Code, Git, Streamlit, PyCharm

## Projects

### Car Damage Detection Using Deep Learning [Project Link](#)

[Python / PyTorch / Fine-tuned ResNet50]

Apr 2025 - May 2025

- Developed a deep learning-powered Streamlit web app using a fine-tuned ResNet50 model in PyTorch to classify car damage types with **92% accuracy** on front and rear damage images.
- Reduced vehicle damage assessment time by 90% through development of near real-time detection system using uploaded photos, classifying normal, crushed, and breakage with ResNet50 model, enabling faster claims processing.
- Processed and tested on **500+ labeled vehicle images**, achieving over **90% classification accuracy** with inference time under **2 seconds per image**.

### CredX – Credit Risk Modeling [Project Link](#) | [Live Deployment](#)

[Python / Scikit - learn / Streamlit]

Mar 2025 - Apr 2025

- Deployed **CredX**, a Streamlit-based credit risk assessment app using a logistic regression model trained on borrower demographics, loan details, and credit history features to predict default probability with **85% accuracy**.
- Implemented a comprehensive scoring system that generates credit scores (300–900) and assigns risk ratings ('Poor' to 'Excellent') for personalized borrower evaluation and improved lending decisions.

### GhostBoard: AI Virtual Keyboard Using Hand Gestures [Project Link](#)

[Python / OpenCV / MediaPipe]

Feb 2025 - Mar 2025

- Built a real-time gesture-based virtual keyboard using Python, OpenCV, MediaPipe, and cvzone, achieving **95% gesture recognition accuracy** and enabling touchless typing via webcam-based hand tracking.
- Integrated pynput to simulate keyboard inputs, enabling the virtual keyboard to type detected alphabets directly into applications like Notepad with smooth and accurate response.

### Expense Tracking and Visualization System [Project Link](#)

[Python / MySQL / Fast API]

Feb 2025 - Mar 2025

- Engineered a modular expense management system combining Fast API backend and Streamlit frontend for efficient user experience.
- Developed an interactive dashboard that empowers users to monitor spending, organize transactions, and define monthly budgets.
- Leveraged Python data analysis tools to detect spending anomalies, generate visual insights through charts, and provide personalized budget predictions with **85% accuracy** based on user history.

## Certifications

- Supervised Machine Learning: Regression and Classification – Deep Learning.AI, Stanford University** [Link](#)
- Python for Computer Vision with OpenCV and Deep Learning – Udemy** [Link](#)
- Complete 2025 Python Bootcamp: Learn Python from Scratch – Udemy** [Link](#)
- IBM Machine Learning Professional Certificate – IBM (in progress)**

## Achievements

- Secured All India Rank 252** in the National Defense Academy (NDA) written examination, demonstrating strong aptitude, discipline, and national-level competitive excellence.
- Led a team of 10 in the Gujarati Club to pull off GlamVIT, a vibrant fashion event attended by over 200 people, hosting with energy and guiding the team to make it a hit.