

VIRAJ VORA

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Education

Prakash College of Commerce and Science

Aug 2021 - May 2023

HSC (Maharashtra Board) - 83.17% — MHT CET: 99.92% (Rank 144) — JEE Mains: 98.40%

Veermata Jijabai Technological Institute, Matunga

Aug 2023 - Present

B.Tech in Computer Engineering — CGPA: 8.51/10

Relevant Coursework

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|--------------------------------|-------------------------------|--------------------|--------------------|
| • Data Structures & Algorithms | • Algorithm Design & Analysis | • Machine Learning | • Web Development |
| • Python Programming | • Artificial Intelligence | • Deep Learning | • Database Systems |
| | | • Generative AI | • C++ programming |

Projects

XCELERATE - Autonomous Vehicle Innovation — Python, TensorFlow, YOLO, OpenCV, CNN

Jul 2024 - Oct 2024

- Implemented real-time lane detection using OpenCV and edge detection algorithms with accuracy of **95%**
- Developed a CNN model for traffic sign recognition, achieving **98%** accuracy on GTSRB dataset
- Integrated **YOLOv8** for multi-object detection and tracking in urban environments with **90%** accuracy
- Engineered a JavaScript-based simulator with autonomous navigation and driving capabilities by using **Genetic Algorithm**
- Deployed Fine Tuned NVIDIA's architecture for behavior cloning in Udacity self-driving car simulator reducing lane deviation by **30%**

Decora - Virtual Interior Designer — React, Three.js, Konva.js, ML

Nov 2024 - Dec 2024

- Designed 2D-to-3D floorplan conversion module using KonvaJS and Three.js rendering reducing processing time by **40%**
- Integrated 3D furniture models via web scraping from Sketchfab and scraping **5000+** other furniture options from online stores like Amazon and IKEA with personalized cart for users.
- Built Auth0-authenticated React frontend with project persistence functionality
- Developed renovation cost prediction model using linear regression and housing metadata with accuracy of **88%**

ExpenFlow - AI-Powered Expense Management — Python, LangChain, OCR

Jan 2025 - Feb 2025

- Engineered OCR pipeline for receipt processing with **95% accuracy** reducing manual correction by **80%**
- Implemented LLM Driven policy validation and flagging violations with **93%** accuracy reducing HR review time by **40%** along with automated expense report generation reducing manual report generation by **100%**
- Designed interactive dashboards for financial analytics visualization
- Developed automated email notification system for HR reporting workflows

Technical Skills

Languages: Python, C++, HTML, CSS, JavaScript (ES6+), SQL

Technologies/Frameworks: TensorFlow, PyTorch, React, OpenCV, YOLO, LangChain, Web Scraping

Tools: Git/Github, Jupyter, VS Code, Google Colab

Domains: Computer Vision, AI/ML, NLP, Generative AI, Web Development

Achievements

- Ranked 5th in CodeHunt National Coding Competition (COC VJTI)

Leadership & Extracurricular

Marketing Executive

Aug 2024 - Present

Pratibimb, VJTI

- Boosted social media engagement by 40% through targeted content strategy
- Produced 15+ promotional videos and digital assets for technical events

Open-Source Workshop Lead

Feb 2024

ProjectX, VJTI

- Conducted Python/Git workshop for 100+ participants with 95% satisfaction rate
- Guided 6 junior developers in contributing to open-source projects