

# Viraj Mane

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## Education

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**VIT Bhopal University**  
BTech  
Computer Science Engineering.

Bhopal, Madhya Pradesh  
Expected May 2026  
Cumulative CGPA: 8.23/10

**JISA**  
12<sup>th</sup> Standard (HSC): - 66%

Chh. Sambhajinagar, Maharashtra  
Jul 2022

**PODAR INTERNATIONAL CBSE**  
10<sup>th</sup> Standard (CBSE): - 90%

Mar 2020

## Technical Skills

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- **Programming:** Python, Java, HTML, CSS, JS
- **Full-Stack Development:** Frontend (React, HTML/CSS, JavaScript), Backend (Node.js, Express, REST APIs), Database (SQL, MongoDB)
- **AI & Deep Learning:** Neural Networks, Natural Language Processing (NLP), Computer Vision (CV), Generative AI
- **Web3:** Smart Contracts (Solidity), dApp Development, Ethereum, Web3.js

## Projects

- **Image Generative AI:** Developed a high-quality image generation model using GANs and diffusion models, enabling text-to-image synthesis with style transfer and enhanced realism.
- **Bone Fracture Detection:** Built a CNN-based deep learning system for automated X-ray analysis, improving early fracture detection accuracy and aiding in medical diagnostics.
- **Thermal Surveillance System:** Engineered a real-time surveillance solution integrating YOLOv8 and Faster R-CNN to detect threats in low-visibility thermal imagery.
- **Music Streaming App:** Designed and deployed “TuneTrails,” a full-stack music platform using the MERN stack, featuring real-time playback, playlist management, authentication, and search.
- **ODIN – Web3 NFT & Crypto Suite:** Developed a decentralized platform with smart contracts for NFT marketplace functionalities, integrated with a crypto analysis bot and Web3 wallet support using Solidity, Web3.js, and Ethers.js.
- **Quake-P2P File Transfer Web App:** Quake is a lightweight, secure, and real-time file-sharing application that leverages WebTorrent and WebRTC to enable direct peer-to-peer (P2P) transfers—no server storage, no waiting.

## Certification & Training

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- Generative AI course - IBM
- Fullstack Web Development using mongo DB – SmartInternz

## Extracurricular

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**Maharashtra Club**

VIT Bhopal

**Member**

Jan 2023 – May 2025

- Served as a event management committee member in several club events.

## Languages

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- **Fluent:** Hindi, English, Marathi
- **Conversational Proficiency:** Hindi, English, Marathi