Viraj Mane

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Profile Summary

AI and Machine Learning enthusiast with hands-on experience in Generative AI, Deep Learning, and Computer Vision. Worked on impactful projects including Image Generation, Bone Fracture Detection, and Thermal Surveillance Systems.

Well-versed in data manipulation, cloud computing, and analytical tools, with strong programming skills in Python, C++, and Java, along with experience in libraries such as NumPy.

Experience

1. Indian Space Lab Internship   **November 2024 – December 2024**

2. CodeTech IT Solutions   **January 2025 – March 2025**

Projects

Image Generative AI   **September 2023**
Developed an AI-powered image generation model leveraging deep learning techniques to create high-quality visuals based on text prompts.

Bone Fracture Detection   **January 2024**
Developed a deep learning model for automated bone fracture detection using X-ray images.

Thermal Surveillance System   **October 2024**
Designed a real-time thermal surveillance system using YOLO v8 and Faster RCNN.

Music Streaming Application   **April 2025**
Built "TuneTrails", a full-stack music streaming platform inspired by Spotify, using the MERN stack.

Technical Skills

Languages: Python, C++, Java, C, JavaScript, HTML, CSS

Technologies/Frameworks: React.js, Node.js, Express.js, MongoDB, NumPy, GitHub, Cloudinary, MATLAB, Firebase

Tools & Platforms: VS Code, Git, Postman, Google Cloud Platform (GCP), IBM Cloud, MATLAB

Education

Vellore Institute of Technology   **Aug 2022 – May 2026**

Bhopal, Madhya Pradesh

Bachelor of Technology – CGPA: 8.07
 authentication, playlist management, and search features.

Extracurricular / Certifications

- MATLAB Onramp

- Google: The Bits and Bytes of Computer Networking

- NPTEL: Cloud Computing

- IBM AI Engineering Professional Certificate

- Supervised Machine Learning: Regression and Classification (Andrew Ng)

- NVIDIA: Generative AI Explained

- IBM: Generative AI Engineering Professional Certificate

- MongoDB Associate Developer Certification

- NPTEL: Marketing Analytics