

## Siddharth Inamdar

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GitHub: <https://github.com/Siddharth-Inamdar-05>

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## Summary

AI/ML student focused on **Computer vision** and **Deep learning**, with hands-on experience building end-to-end projects in **TensorFlow/Keras**, **OpenCV**, and **MediaPipe**. Comfortable with model evaluation, interpretability (Grad-CAM), and real-time CV pipelines.

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## Education

**Integrated M.Tech – Artificial Intelligence, Vellore Institute of Technology (VIT), Bhopal | 2024 – Present**

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## Projects

**Pneumonia Detection using Convolutional Neural Networks (CNN)** | Python, TensorFlow/Keras

GitHub: <https://github.com/Siddharth-Inamdar-05/Pneumonia-Project-> | Dec 2025

- Built and trained a **CNN classifier** to detect pneumonia from **chest X-ray images**.
- Evaluated performance using **accuracy, precision, recall, F1-score, and AUC** to validate reliability.
- Applied **Grad-CAM** to highlight image regions influencing predictions and improve interpretability.
- Followed an end-to-end ML workflow: data preparation → training → evaluation → visualization.

**AI-Based Gesture Controller for Spotify (OpenCV + MediaPipe)** | Python, OpenCV, MediaPipe

GitHub: <https://github.com/Siddharth-Inamdar-05/Hand-Gesture-AI> | Nov 2025

- Developed a **real-time hand-gesture recognition** system to control Spotify hands-free.
  - Used **MediaPipe hand landmarks** with an OpenCV video pipeline for live gesture detection.
  - Mapped gestures to playback controls (play/pause, next/previous, volume).
  - Optimized for **low-latency** and stable real-time interaction.
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## Awards & Honors

**Hackathon Top 15 Finalist** — Indian Institute of Technology (IIT) Delhi, New Delhi | 2025

- Recognized among the top 15 teams for problem-solving, teamwork, and technical implementation.
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## Technical Skills

**AI/ML & Deep Learning:** Machine Learning, Deep Learning, Neural Networks, CNNs, Model Evaluation (Precision/Recall/F1, AUC)

**Computer Vision:** OpenCV, MediaPipe, Grad-CAM, Real-time CV pipelines

**Frameworks/Libraries:** TensorFlow, Keras, scikit-learn

**Programming & Tools:** Python, Git, GitHub, CPP