

# Murali Krishna L

Research Intern, IIT Madras

## Dear Reader,

I'm Murali — a builder at heart who enjoys exploring how real-world signals, algorithms, and AI models can work together to solve meaningful problems. Thanks for taking the time to explore my work — I'm especially excited by AI/ML because of how deep yet practical it can get, from math to models to interface.

While I'm still early in the field, I've been hands-on with builds. One of my favorite projects is a real-time driver fatigue system using EAR, facial landmarks, and heart rate estimation via rPPG and SciPy signal filters — with real-time alerts, fatigue scores, and PyQt5 UI. It felt like building AI that actually *cares* about the user.

I'm comfortable with Python, OpenCV, MediaPipe, NumPy, SciPy, and TensorFlow — and I've implemented CNNs, trained RL agents in CARLA with StableBaselines3, and even built a neural network from scratch in C++ to understand AI from the ground up. I've also played with prompt engineering and built AI-integrated apps using Gemini API and Firebase.

Outside of that, I've been:

- Writing prompt-aware chatbots that assist with DevOps suggestions by analyzing GitHub repos.
- Building a time-loop game in Godot + Flask with AI-enhanced logic for NPC behavior.
- Combining hardware and signal-level knowledge to track emotions, fatigue, and stress in live webcam input.

What excites me about AI is the balance between complexity and creativity — there's elegance in training something smart. I'm looking to grow in environments where deep learning meets real-world usability and impact.

I may be a fresher, but I bring a strong sense of curiosity, end-to-end ownership, and a love for building thoughtful AI systems.

Thanks again for your time!

Warm regards,

Murali Krishna L

+91 93612 26950

[muralikrishna.professional3@gmail.com](mailto:muralikrishna.professional3@gmail.com)

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