

# Harin Narayanasamy

M.Sc. Artificial Intelligence and Machine Learning (Integrated)

 Harin-6044 |  Harin Narayanasamy |  narayanasamy.harin@gmail.com |  +91 9585851935

A learning enthusiast who is ready to work in a challenging environment with a creative mind, giving the best for the organization's betterment.

## SKILLS

Programming Languages	C, C++, Python
Frameworks	Pandas, Scikit, TensorFlow, Keras, PyTorch, OpenCV
Database	MySQL
Web Development	HTML, CSS
Soft Skills	Effective Communication, Critical Thinking, Leadership

## EDUCATION

M.Sc. Artificial Intelligence and Machine Learning	2020 - 2025
Coimbatore Institute of Technology	CGPA : 8.52
Higher Secondary Education	2019 - 2020
Sagar International School	Percentage : 84.8 %
Secondary Education	2017 - 2018
Laidlaw Memorial School & Junior College	Percentage : 78.9 %

## PROFESSIONAL EXPERIENCE

HyperVerge Technologies Private Limited	12/2024 - 06/2025
Data Engineer Intern	Bangalore
<ul style="list-style-type: none"><li>• <b>Face Occlusion Detection</b> Designed a <b>dual-stream ResNet50</b> model for <b>face occlusion detection</b> using <b>two inputs</b>, reducing <b>false negatives</b> in real-time identity verification through <b>data augmentation</b> and <b>feature fusion</b>.</li><li>• <b>Automated Forensic Analysis and Document Integrity Verification</b> Built an automated <b>Python package</b> to detect <b>PDF tampering</b> via metadata, layout and stream-level checks.</li><li>• Tools and Technologies : Python, PyTorch, OpenCV, Git, ExifTool, PyMuPDF, pdfid, pdfsig</li></ul>	
SayvAI Software Private Limited	07/2023 - 11/2023
Machine Learning Engineer Intern	Coimbatore
<ul style="list-style-type: none"><li>• <b>Fine - tuning Large Language Models with Reinforcement Learning from Human Feedback</b> Developed a complete RLHF pipeline to fine-tune LLMs, enabling domain-specific adaptation and improved alignment with human preferences across multiple applications. Integrated human feedback loops to enhance response quality, relevance and safety.</li><li>• Tools and Technologies : Python, PyTorch, Hugging Face Transformers, TRL, Label Studio, Gradio</li></ul>	

## PROJECTS

Signed Unsigned Detection
<ul style="list-style-type: none"><li>• Built a custom CNN model to detect whether a person is signing or not from video frames.</li><li>• Achieved 94.45 % accuracy on a dataset with 15,000 frames per class.</li><li>• Tools and Technologies : OpenCV, TensorFlow, Keras, NumPy, Streamlit</li></ul>

## RESEARCH PUBLICATIONS

- **Ambulance Tracking System**  
2nd Virtual National Conference On Mathematical Modelling And Computation 2021 (NCMMC-2021)

## CERTIFICATIONS

- Python For Data Science - NPTEL
- AI For India Event - GUVI Geek Networks, IITM Research Park
- The Guinness World Record Event - GUVI Geek Networks, IITM Research Park
- SAFETYTHON - A Road Safety Hackathon - Kumaraguru College of Technology, Coimbatore

## INTERESTS

- Computer Vision
- Machine Learning
- Deep Learning
- Natural Language Processing