

# Cherin Yacoob Wattacheril

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## SUMMARY

Aspiring AI/ML engineer with hands-on experience in computer vision, natural language processing, and generative AI applications. Proven track record of building real-time systems, from sign language detection to automated home layout generation, with a strong academic background and research exposure.

## EDUCATION

<b>VIT Bhopal University</b> <i>Integrated M.Tech in Artificial Intelligence &amp; Machine Learning</i>	Oct 2022 – Present GPA: 8.72/10
<b>Marthoma Residential School, Thiruvalla, Kerala</b> <i>12th Standard</i>	May 2022 Percentage: 85%
<b>Sophia International Academy, Nooronmavu, Kerala</b> <i>10th Standard</i>	May 2020 Percentage: 89%

## TECHNICAL SKILLS

**Languages:** Python, C++, Java, Bash

**Tools and Frameworks:** OpenCV, NumPy, YOLO, Git, Docker, LSTM

## PROJECTS

<b>Sign Language Detection</b> <i>Deep Learning / Real-time Application</i>	Jan 2024 – Mar 2024 Python, LSTM, MediaPipe
Developed a real-time sign language recognition system using LSTM and MediaPipe. Achieved 96% real-world prediction accuracy through robust model training and data preprocessing. Pioneered a dynamic modeling method focusing on sequential movements for better temporal understanding. GitHub Repo	
<b>Anomaly Detection in Crowded Environments</b> <i>Computer Vision, AI Pipeline</i>	Jul 2024 – Apr 2025 YOLOv8-X, MediaPipe Pose, SlowFast R50
Designed a multi-modal AI system for real-time threat detection in public spaces. Integrated YOLOv8, MediaPipe Pose, and SlowFast to analyze surveillance video streams. Implemented an Interaction-Aware Threat Scoring (IATS) method validated on UCF Crime dataset. GitHub Repo	
<b>Generative AI for Automated Home Layouts &amp; Floor Planning</b> <i>NLP, Generative Modeling</i>	Jan 2025 – Apr 2025 FLAN-T5, CGANs
Built a system to generate 2D house plans from text using fine-tuned FLAN-T5. Used grid-based layouts and CGANs for fast and condition-based generation. Reduced training time by 70% while improving layout coherence. GitHub Repo	

## CERTIFICATIONS

- Applied Machine Learning in Python – Coursera
- Cloud Computing – NPTEL

## Co-CURRICULAR ACTIVITIES

- Published in IEEE: Machine Learning-Based Threat Detection in Crowded Environments
- Solved 140+ problems on Leetcode: cherinyacoobwattacheril