

ai.Help!

with Grove Vision AI

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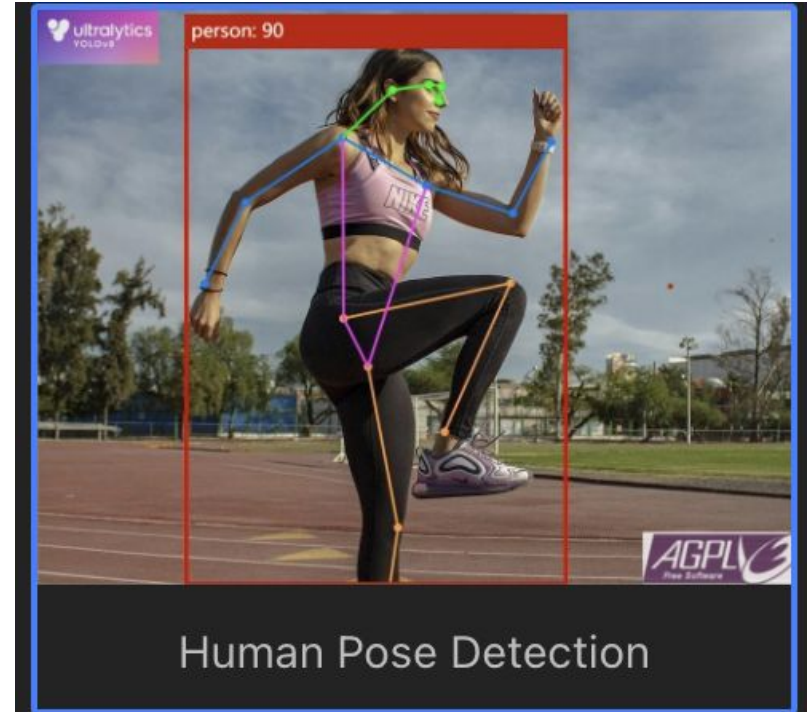
Faculty of Arts
and Humanities

A sign language-inspired S.O.S. detector



Machine Learning Model

Name: Human Pose Detection
Algorithm: YOLOV8 By Ultralytics
Category: Keypoint Detection
Model Type: TFLite
License: AGPL3.0
Version: 1.0.0



Source: <https://seeed-studio.github.io/SenseCraft-Web-Toolkit/>

Where we are so far... 🗑️

(AND)

// elbows above shoulders

// wrists above elbows

// wrists above head

// wrists closer than elbows

// wrists very close or overlapping



Enhancing Public Safety Through Machine Learning

Integrating TinyML Gesture Detection into CCTV Systems

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ABSTRACT

CCTV systems are widely deployed across the globe, serving as a crucial element of public safety and surveillance. However, their current functionality is often limited to passive monitoring, leaving opportunities for proactive emergency response untapped. This paper explores the integration of tinyML (Tiny Machine Learning) technology into existing CCTV cameras to address this gap by enabling the detection of a "universal" arm gesture that signals an emergency. The proposed solution leverages the

TinyML, Gesture Recognition, CCTV, Emergency Signalling, Public Safety, Machine Learning, Surveillance, Computer Vision, Real-Time Detection, Smart Cities

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As Good Academic...