

Object Detection Application Documentation

Introduction

This documentation provides an overview of an object detection application developed using YOLO (You Only Look Once) algorithm. The application allows users to detect objects in real-time video streams and static images.

YOLO Object Detection

YOLO is a state-of-the-art, real-time object detection system. Unlike traditional detection algorithms that look at different parts of the image separately, YOLO looks at the entire image simultaneously, enabling it to make predictions with high speed and accuracy.

Getting Started

To use the application, follow these steps:

- 1. Clone the Repository** `git clone <repository-url>`
- 2. Install Dependencies:** `pip install <dependencyname>`
- 3. Run the Application:** `python app.py`

Object Detection

Real-Time Object Detection

The application utilizes YOLO for real-time object detection in video streams. It continuously analyzes frames from a live video feed, identifies objects, and draws bounding boxes around them in real-time.

Image Object Detection

Users can also perform object detection on static images using the application. They can upload an image, and the application will process it using YOLO to detect objects present in the image.