

Assignment #7

# **Object Detection**

# Example Code

## Description:

Train custom YOLOV8 object detection model with KerasCV.

Ref.:

<https://keras.io/examples/vision/yolov8/>

The screenshot shows a web browser with multiple tabs open. The active tab is the Keras documentation page for 'Efficient Object Detection with YOLOV8 and KerasCV'. The page features a sidebar with navigation links: 'About Keras', 'Getting started', 'Developer guides', 'Keras 3 API documentation', 'Keras 2 API documentation', 'Code examples', and 'Computer Vision'. The 'Code examples' section is highlighted, and the 'Computer Vision' sub-section is also highlighted. The main content area displays the title 'Efficient Object Detection with YOLOV8 and KerasCV', the author 'Gitesh Chawda', the date created '2023/06/26', the last modified date '2023/06/26', and the description 'Train custom YOLOV8 object detection model with KerasCV.'. A yellow banner indicates 'This example uses Keras 2'. Below the banner are links to 'View in Colab' and 'GitHub source'. The 'Introduction' section begins with the text: 'KerasCV is an extension of Keras for computer vision tasks. In this example, we'll see how to train a YOLOV8 object detection model using KerasCV. KerasCV includes pre-trained models for popular computer vision datasets, such as ImageNet,'.

keras example yolo - Google | Efficient Object Detection with YOLOV8 and KerasCV | Building Autoencoders in Keras | Convolutional autoencoder for image denoising | Google 翻譯 | 首頁 - Google 雲端硬碟 | OpenCV\_tutorial.ipynb - Colab

keras.io/examples/vision/yolov8/

**Keras**

About Keras

Getting started

Developer guides

Keras 3 API documentation

Keras 2 API documentation

Code examples

Computer Vision

Image classification from scratch

Simple MNIST convnet

Image classification via fine-tuning with EfficientNet

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## Efficient Object Detection with YOLOV8 and KerasCV

**Author:** Gitesh Chawda  
**Date created:** 2023/06/26  
**Last modified:** 2023/06/26  
**Description:** Train custom YOLOV8 object detection model with KerasCV.

**This example uses Keras 2**

[View in Colab](#) • [GitHub source](#)

## Introduction

KerasCV is an extension of Keras for computer vision tasks. In this example, we'll see how to train a YOLOV8 object detection model using KerasCV.

KerasCV includes pre-trained models for popular computer vision datasets, such as ImageNet,

# Requirements

- Study and execute the example code or related codes, and provide a report of your study.
- Fine-tune the model YOLO v8 or related models by using your training data.
- The maximal length of the report: 8 pages.