Project: Computer Vision -Object Detection with OpenCV and Python

Reading: Project-based Course Overview

10 min

1h

- Ungraded External Tool:
 Computer Vision Object
 Detection with OpenCV and
 Python
- Quiz: Graded Quiz: Test your Project understanding 6 questions
- Course End Survey We appreciate your feedback!

Welcome!

Welcome to **Computer Vision - Object Detection with OpenCV and Python**. This is a project-based course which should take approximately 2 hours to finish. Before diving into the project, please take a look at the course objectives and structure:

Course Objectives

In this course, we are going to focus on **six** learning objectives:

- 1. Detect Faces on Images
- 2. Detect Eyes on Images
- 3. Detect Faces and Eyes on Images
- 4. Detect Pedestrians on Videos
- 5. Detect Cars Moving on Videos
- 6. Detect a Car's Plate on Images

By the end of this course, you will be able to **apply what you've learned to do your own detections.**

Course Structure

This course is divided into 4 parts:

- 1. Course Overview: This introductory reading material.
- 2. **Computer Vision Video Basics with OpenCV and Python:** This is the hands on project that we will work on in Rhyme.
- 3. Graded Quiz: This is the final assignment that you need to pass in order to finish the course successfully.

Project Structure

The hands on project on Computer Vision - Object Detection with OpenCV and Python is divided into following tasks:

Task 1: Introduction

Task 2: Face Detection

Task 3: Eyes Detection

Task 4: Face and Eyes Detection

Task 5: Pedestrians Detection

Task 6: Cars Moving Detection

Task 7: Car's Plate Detection

Meet the Instructor

Hi!

I'm Ilias and I will be your instructor.

I'm a full-time family man, Software Developer, Dreamer, Learner, Traveller

Thank you for choosing this project!

Let's start our journey!

About Rhyme

This course runs on Coursera's hands-on platform called Rhyme. On Rhyme, you do projects in a hands-on manner in your browser. You will get instant access to pre-configured cloud desktops that have all the software and data you will need. So, you can just focus on the learning. For this project, this means instant access to a cloud desktop with Python, Jupyter, and TensorFlow pre-installed.

Earn a Certificate

After you have completed the **Computer Vision - Object Detection with OpenCV and Python** hands-on project, you will be able to assess your knowledge using an ungraded assignment. Once you are comfortable with the concepts, take the final quiz, score higher than 80% to <u>earn your certificate</u>.



