

# COELHO VISION

RAFAEL COELHO

COELHO  
VISION

THIS PROJECT WAS BUILT WITH THE FOLLOWING TOOLS:



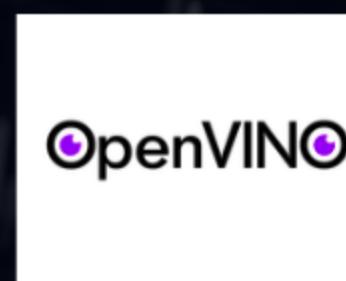
STREAMLIT



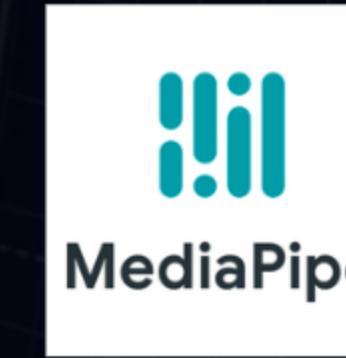
OPENCV



NUMPY



OPENVINO



MEDIAPIPE



PYTHON



ULTRALYTICS



ROBOFLOW



PYQT6

**COELHO VISION** is a Computer Vision & AI project, developed to show some modern applications towards industry and companies. Besides a web version, there's also a software version to solve processing latency time, making it to run faster when you use the Windows software version.

And what are all the tools of COELHO VISION?

**Object Detection:** Dive into the world of Object Detection, Image Classification, and Face Detection.

**Image Segmentation:** Experience unparalleled precision in image segmentation.

**Pose Estimation:** Discover tools for Gesture Recognition, Hand Landmarking, and Pose Estimation.

**Live Camera:** Bring all these tools to life with your notebook or smartphone camera.

Whether you're a developer, a technology enthusiast, or just curious about the latest in AI and Computer Vision, COELHO VISION is the newest and best tool for you to get to know and explore the world of Computer Vision with integrated Artificial Intelligence.

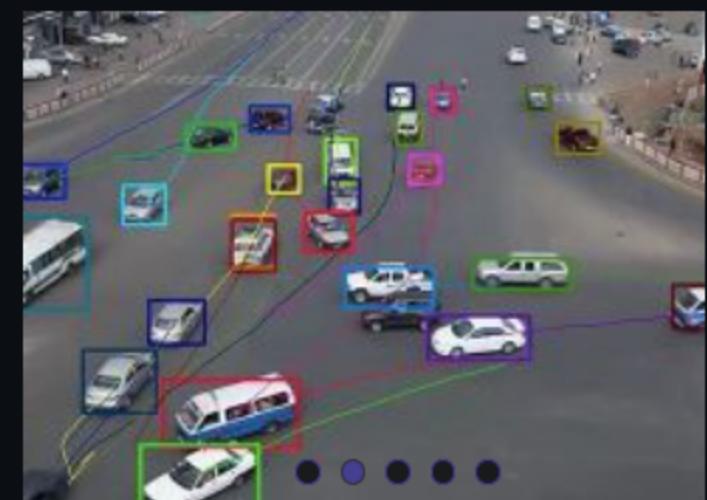
Explore the future of imagery with us. Join the vision revolution!

# COELHO VISION

Author: Rafael Silva Coelho

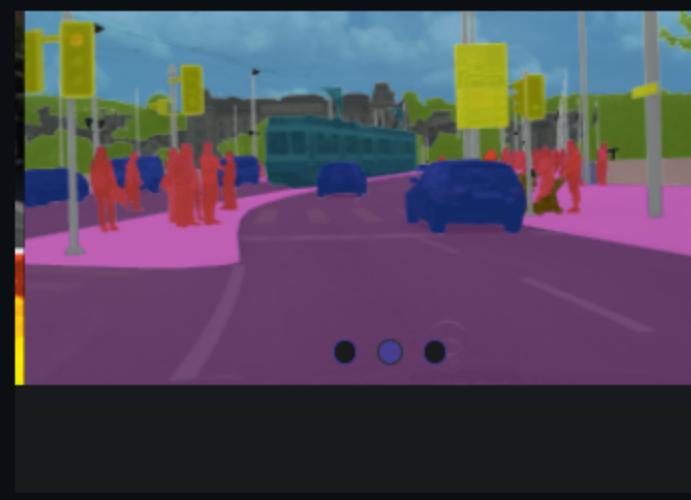
**Object Detection**

*Object Detection*



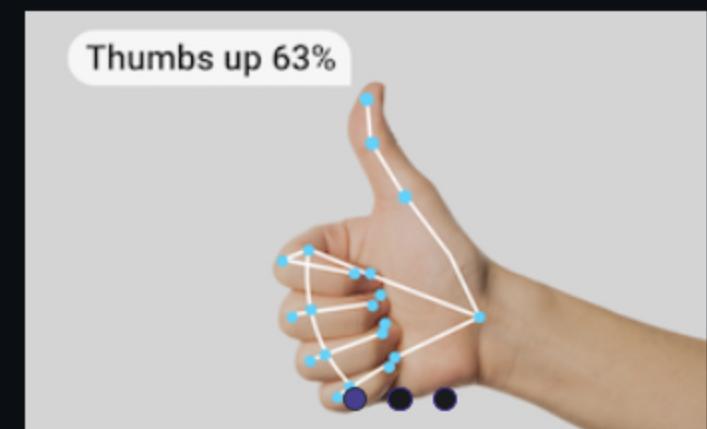
**Image Segmentation**

*Image Segmentation*



**Pose Estimation**

*Pose Estimation*



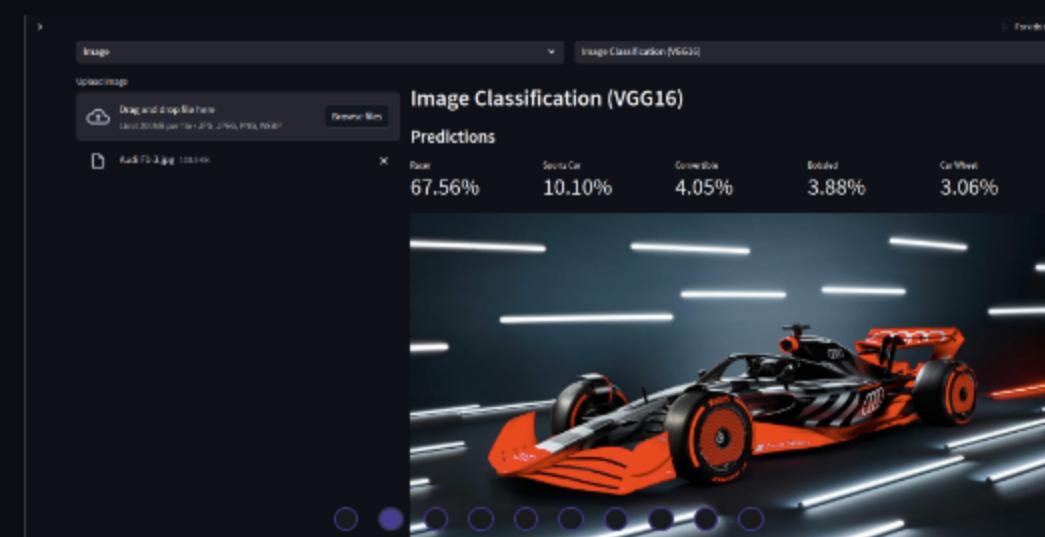
**Live Camera**

- Image Classification
- Object Detection
- Face Detector
- Object Tracking

- Image Segmentation
- Depth Estimation

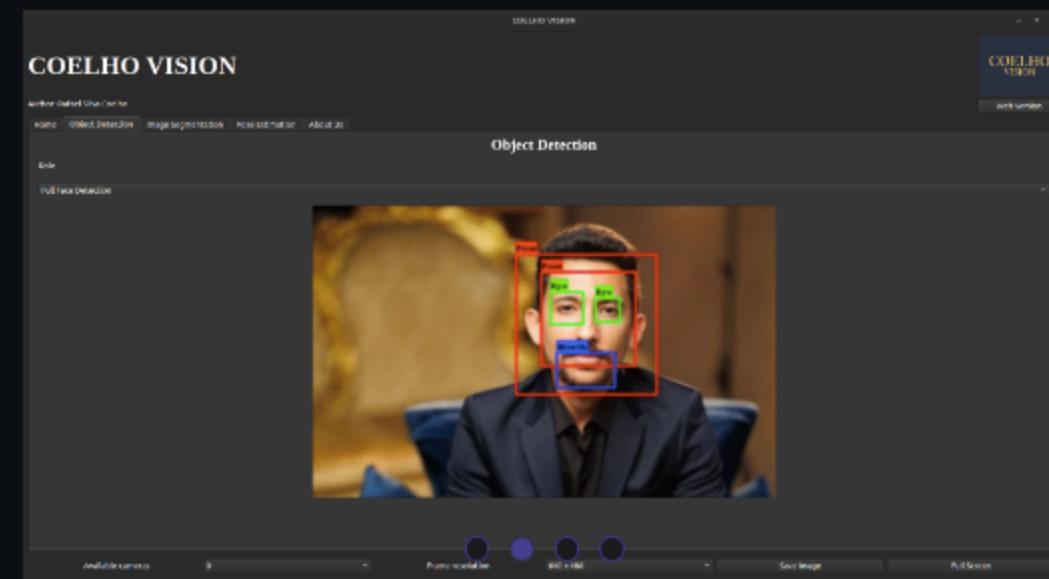
- Gesture Recognition
- Hand Landmarker
- Pose Estimation

**About Us**



# COELHO VISION

## Software Version



COELHO VISION is an advanced Computer Vision software offering features like Object Detection, Object Tracking, Image Classification, Image Segmentation, Depth Estimation, and Pose Estimation. The Windows version provides a significant performance boost, minimizing latency and ensuring a smoother, faster experience compared to the web version.

Optimize your computer vision projects with the powerful and reliable Windows version of COELHO VISION. Click the link below to download and experience the difference!

[Download COELHO VISION software \(Windows version\)](#)

**Disclaimer:** for Linux and Mac versions, there is no software version. You must clone the source repository and run it using Python ([GitHub repository](#))

# COELHO VISION

## Object Detection

COELHO  
VISION

Author: Rafael Silva Coelho

[Home](#)[Object Detection](#)[Image Segmentation](#)[Pose Estimation](#)[Live Camera](#)[About Us](#)

Mode

Image

Role

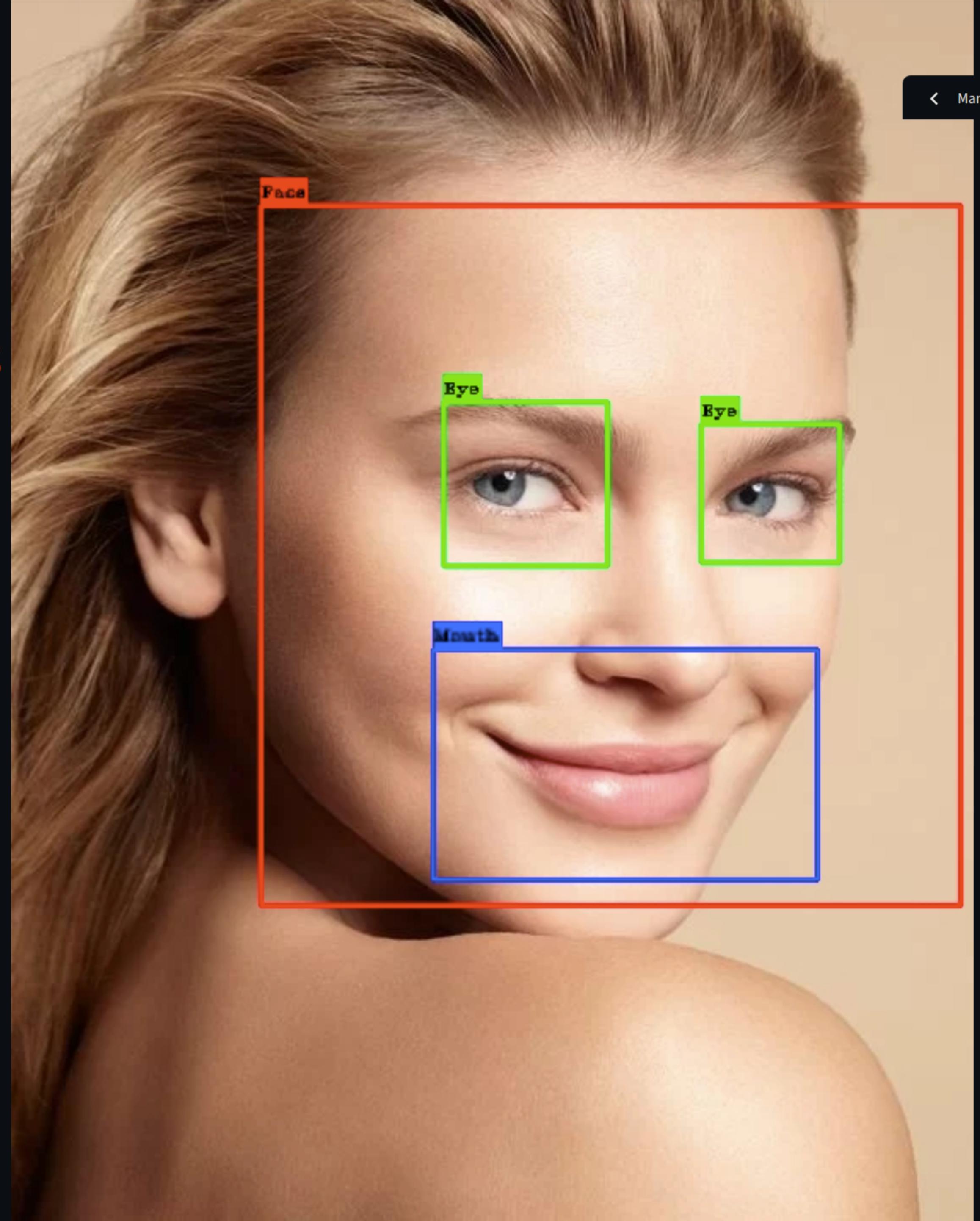
Full Face Detection

Upload image

Drag and drop file here Limit 200MB per file • JPG, JPEG, PNG, WEBP [Browse files](#)



### Full Face Detection

[Manage app](#)[Manage app](#)

# COELHO VISION

## *Object Detection*

COELHO  
VISION

Author: Rafael Silva Coelho

Home

Object Detection

Image Segmentation

Pose Estimation

Live Camera

About Us

Mode

Image

Role

Object Detection (YOLOv8)

Upload image

Drag and drop file here  
Limit 200MB per file • JPG, JPEG, PNG, WEBP

Browse files

0x0.webp 33.6KB

### Object Detection (YOLOv8)



# COELHO VISION

## *Object Detection*

COELHO  
VISION

Author: Rafael Silva Coelho

Home

Object Detection

Image Segmentation

Pose Estimation

Live Camera

About Us

Mode

Role

Image

Object Detection (MediaPipe)

Upload image



Drag and drop file here

Limit 200MB per file • JPG, JPEG, PNG, WEBP

Browse files



Acer-Swift-5-TOP.jpg 0.7MB



Set a color to bounding boxes and text



### Object Detection (MediaPipe)



# COELHO VISION

## Object Detection

COELHO  
VISION

Author: Rafael Silva Coelho

Home

Object Detection

Image Segmentation

Pose Estimation

Live Camera

About Us

Mode

Role

Image

Image Classification (MediaPipe)

Upload image

Drag and drop file here

Limit 200MB per file • JPG, JPEG, PNG, WEBP

Browse files

APB-1-1024x1024.jpg 164.3KB

### Image Classification (MediaPipe)

Perfume

69.73%

Reel

3.73%

Lighter

2.01%

Drum

1.19%



< Manage app

< Manage app

# COELHO VISION

## Object Detection

Author: Rafael Silva Coelho

COELHO  
VISION

Home

Object Detection

Image Segmentation

Pose Estimation

Live Camera

About Us

Mode

Role

Image

Face Detector (MediaPipe)

Upload image



Drag and drop file here

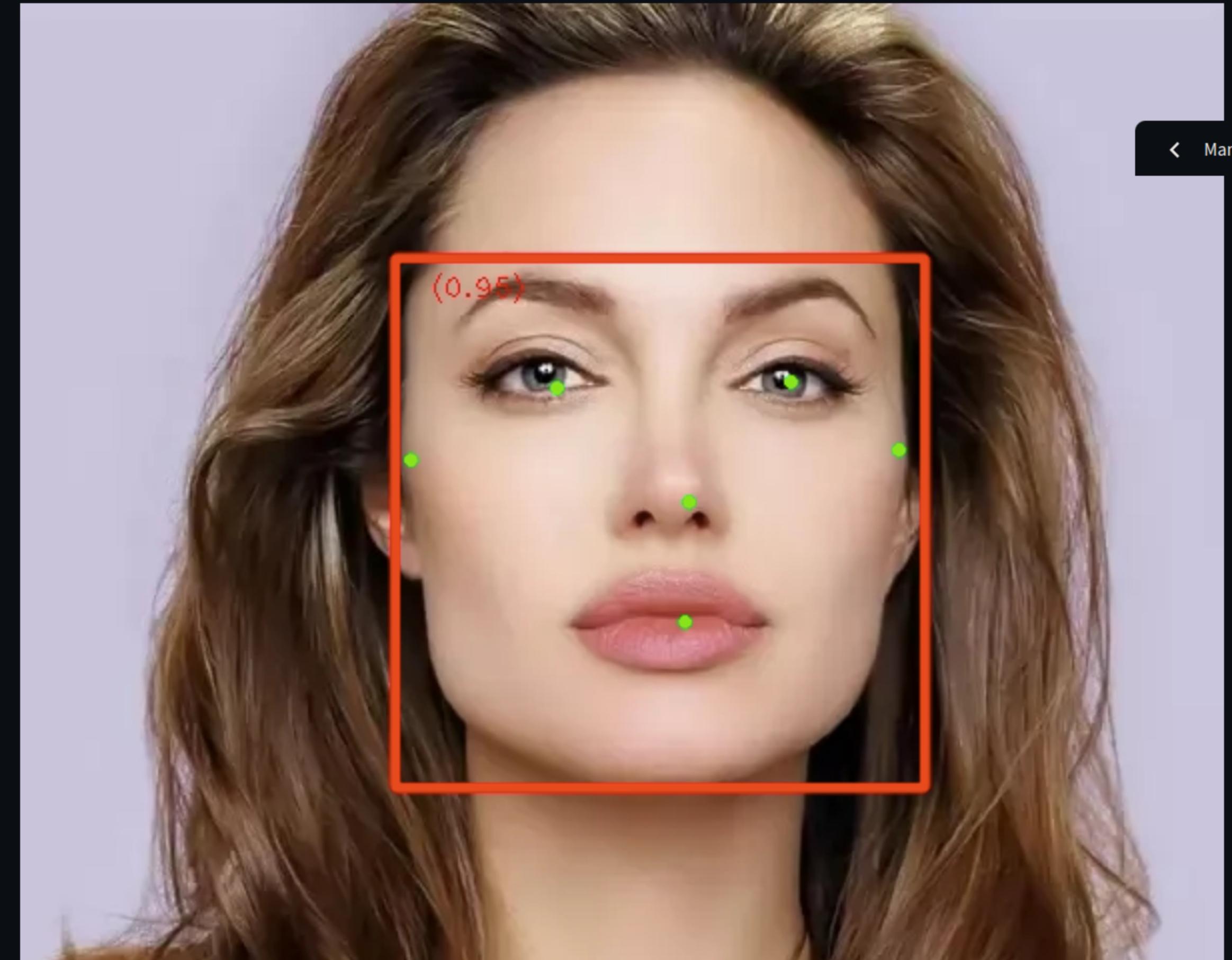
Limit 200MB per file • JPG, JPEG, PNG, WEBP

Browse files



main-qimg-0cbbec200bd91a257854677d... 20.6KB X

### Face Detector (MediaPipe)



Manage app

Manage app

# COELHO VISION

## Object Detection

Author: Rafael Silva Coelho

COELHO  
VISION

Home

Object Detection

Image Segmentation

Pose Estimation

Live Camera

About Us

Mode

Role

Image

Object Detection (RoboFlow)

Upload image



Drag and drop file here

Limit 200MB per file • JPG, JPEG, PNG, WEBP

Browse files



Georgia5and120loop.jpg 90.7KB

### Object Detection (RoboFlow)



< Manage app

< Manage app

# COELHO VISION

## *Object Detection*

COELHO  
VISION

Author: Rafael Silva Coelho

Home

Object Detection

Image Segmentation

Pose Estimation

Live Camera

About Us

Mode

Role

Image

Object Tracking (RoboFlow)

Upload image



Drag and drop file here

Limit 200MB per file • JPG, JPEG, PNG, WEBP

Browse files



traffic-autos-vehicles-road.jpg 57.1KB

### Object Tracking (RoboFlow)



< Manage app

< Manage app

# COELHO VISION

## *Image Segmentation*

COELHO  
VISION

Author: Rafael Silva Coelho

Home

Object Detection

Image Segmentation

Pose Estimation

Live Camera

About Us

Mode

Role

Image

Image Segmentation (YOLOv8)

Upload image



Drag and drop file here

Limit 200MB per file • JPG, JPEG, PNG, WEBP

Browse files



Gain-Valuable-Resources-Keep-a-Relation... 38.8KB X

### Image Segmentation (YOLOv8)



Manage app

Manage app

# COELHO VISION

## *Image Segmentation*

COELHO  
VISION

Author: Rafael Silva Coelho

Home

Object Detection

Image Segmentation

Pose Estimation

Live Camera

About Us

Mode

Role

Image

Depth Estimation (OpenVINO)

Upload image



Drag and drop file here

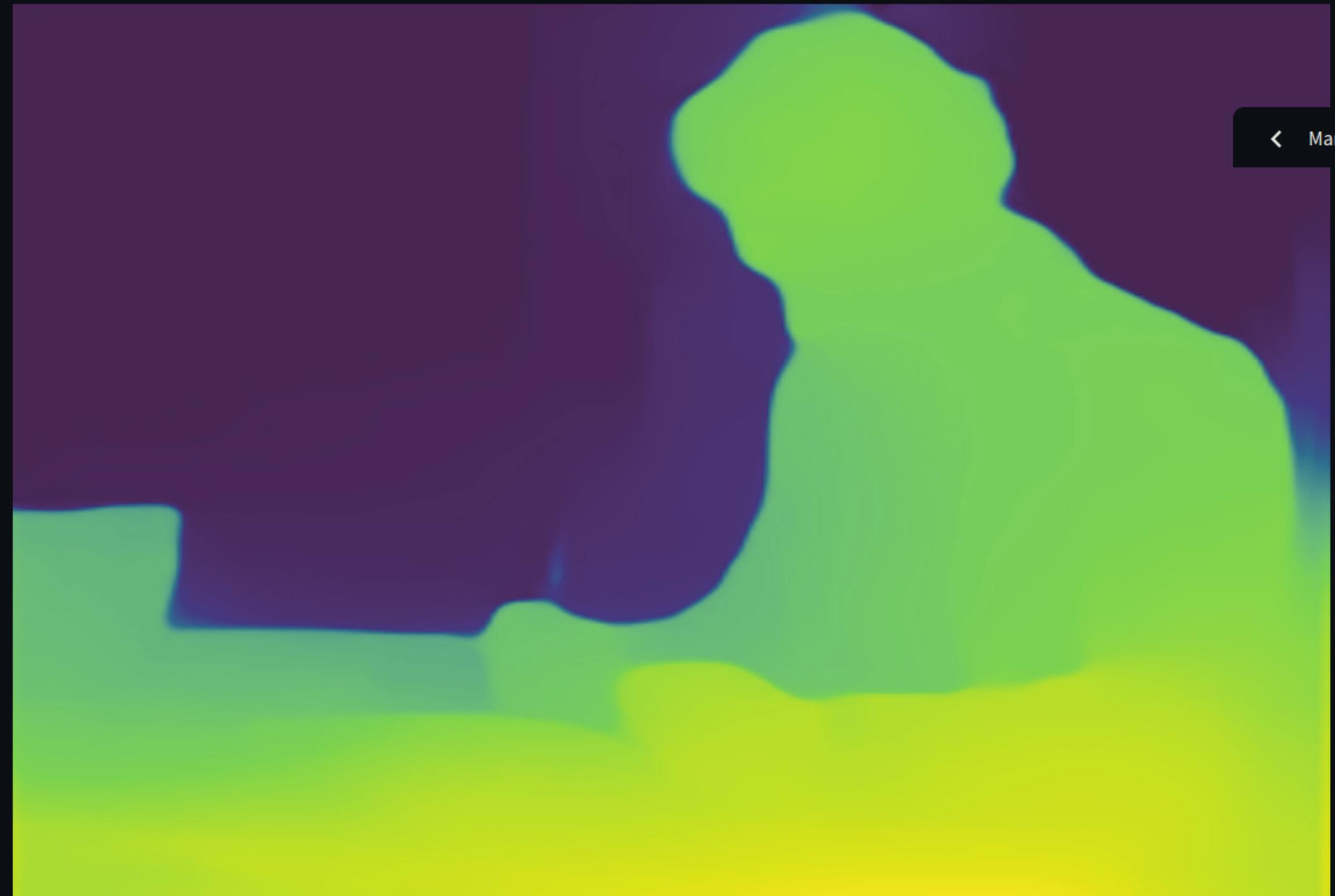
Limit 200MB per file • JPG, JPEG, PNG, WEBP

Browse files



Gain-Valuable-Resources-Keep-a-Relation... 38.8KB X

### Depth Estimation (OpenVINO)



Manage app

Manage app

# COELHO VISION

## *Image Segmentation*

COELHO  
VISION

Author: Rafael Silva Coelho

Home

Object Detection

Image Segmentation

Pose Estimation

Live Camera

About Us

Mode

Role

Image

Image Segmentation (MediaPipe)

Upload image



Drag and drop file here

Limit 200MB per file • JPG, JPEG, PNG, WEBP

Browse files



Gain-Valuable-Resources-Keep-a-Relation... 38.8KB X

Set a color to background



Set a color to mask



### Image Segmentation (MediaPipe)



Manage app

Manage app

# COELHO VISION

## *Image Segmentation*

COELHO  
VISION

Author: Rafael Silva Coelho

Home

Object Detection

Image Segmentation

Pose Estimation

Live Camera

About Us

Mode

Role

Image

Image Segmentation (OpenVINO)

Upload image



Drag and drop file here

Limit 200MB per file • JPG, JPEG, PNG, WEBP

Browse files



highway-driving.png 219.4KB



### Image Segmentation (OpenVINO)



Manage app

Manage app

# COELHO VISION

## Pose Estimation

COELHO  
VISION

Author: Rafael Silva Coelho

Home

Object Detection

Image Segmentation

Pose Estimation

Live Camera

About Us

Mode

Role

Image

Gesture Recognition

Upload image



Drag and drop file here

Browse files

Limit 200MB per file • JPG, JPEG, PNG, WEBP

### Gesture Recognition

Thumb Up

67.54%

thumbup.jpg 48.0KB



Manage app

Manage app

# COELHO VISION

## Pose Estimation

COELHO  
VISION

Author: Rafael Silva Coelho

Home

Object Detection

Image Segmentation

Pose Estimation

Live Camera

About Us

Mode

Role

Image

Hand Landmarker

Upload image



Drag and drop file here

Limit 200MB per file • JPG, JPEG, PNG, WEBP

Browse files



360\_F\_244328590\_RiyvTqK8DUKDX6GSHj... 27.2KB X

### Hand Landmarker



Manage app

Manage app

# COELHO VISION

## Pose Estimation

COELHO  
VISION

Author: Rafael Silva Coelho

Home

Object Detection

Image Segmentation

Pose Estimation

Live Camera

About Us

Mode

Role

Image

Pose Estimation (MediaPipe)

Upload image



Drag and drop file here

Limit 200MB per file • JPG, JPEG, PNG, WEBP

Browse files



soccer\_competition\_game\_men\_males\_... 204.9KB X

### Pose Estimation (MediaPipe)



Manage app

Manage app

# COELHO VISION

## Pose Estimation

COELHO  
VISION

Author: Rafael Silva Coelho

Home

Object Detection

Image Segmentation

Pose Estimation

Live Camera

About Us

Mode

Role

Image

Pose Estimation (OpenVINO)

Upload image



Drag and drop file here

Limit 200MB per file • JPG, JPEG, PNG, WEBP

Browse files



1\_4og-ltBw5dK\_OHHZQ-eNLQ.jpg 35.9KB



### Pose Estimation (OpenVINO)



Manage app

Manage app

# COELHO VISION

Author: Rafael Silva Coelho

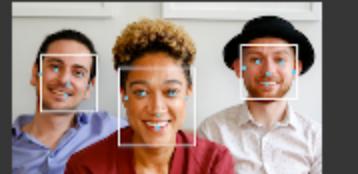
Web version

Home Object Detection Image Segmentation Pose Estimation About Us

## Object Detection



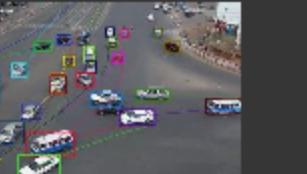
Full Face Detector



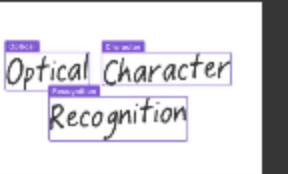
Face Detection



Object Detection



Object Tracking

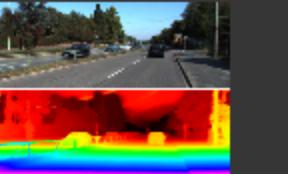


Optical Character Recognition

## Image Segmentation



Image Segmentation



Depth Estimation



Semantic Segmentation

## Pose Estimation



Hand Landmarker



Pose Estimation

Available cameras

0

Frame resolution

640 x 480

Save Image

Full Screen

# COELHO VISION

Author: Rafael Silva Coelho

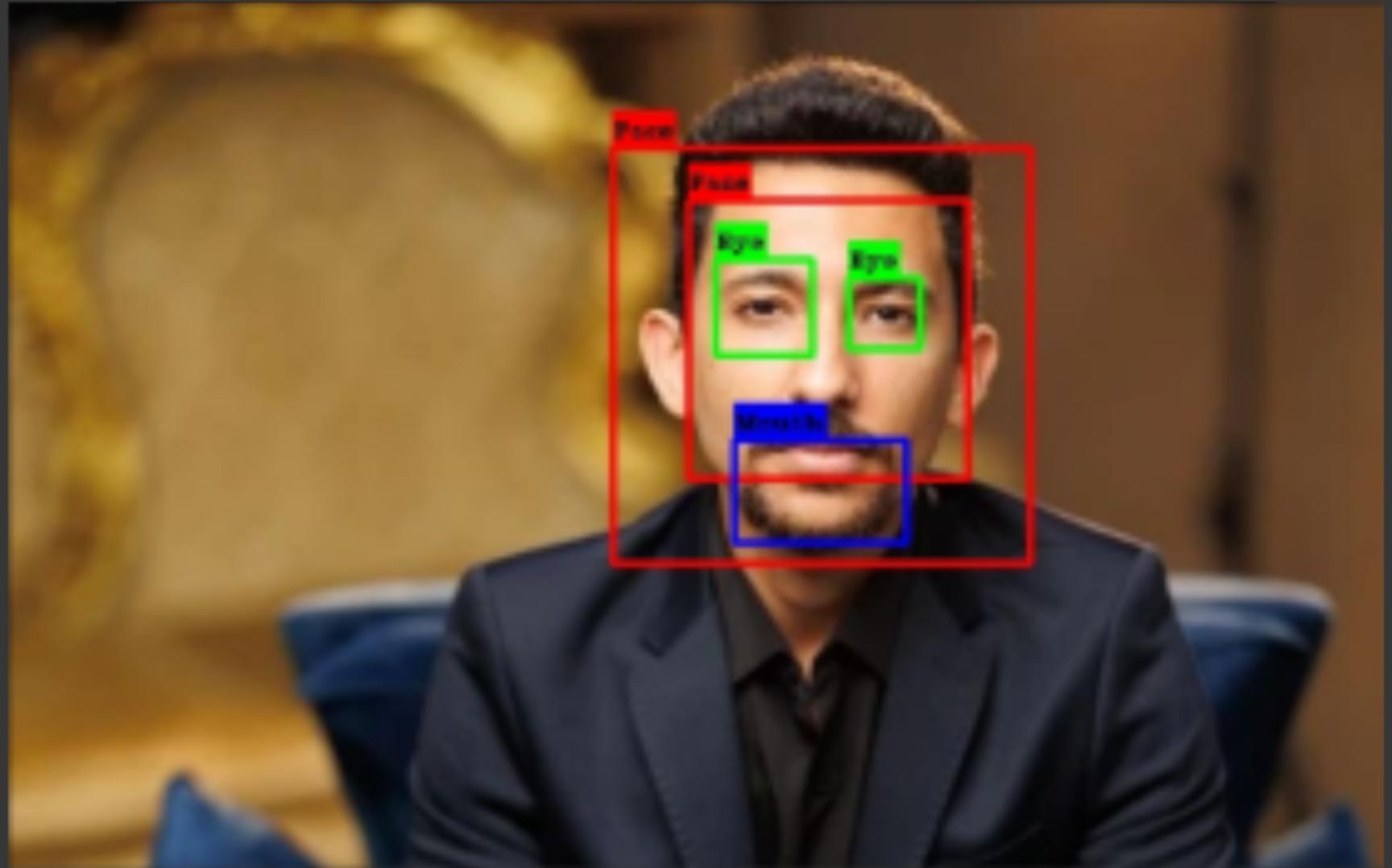
Web version

Home Object Detection Image Segmentation Pose Estimation About Us

## Object Detection

Role

Full Face Detection



Available cameras

0

Frame resolution

640 x 480

Save Image

Full Screen

Frame resolution

640 x 480

Save Image

Close Full Screen



# COELHO VISION

Author: Rafael Silva Coelho

Web version

Home Object Detection Image Segmentation Pose Estimation About Us



## About Us

Rafael Coelho is a Brazilian Mathematics student who is passionate for Data Science and Artificial Intelligence and works in both areas for over 4 years, with solid knowledge in technologic areas such as Machine Learning, Deep Learning, Data Science, Computer Vision, Reinforcement Learning, NLP and others.

Recently, he worked in one of the Big Four companies for over a year.

Portfolio

LinkedIn

GitHub

## Other projects



COELHO Finance



Formula 1 Analytics



COELHO VISION

# Let's work together!



## E-MAIL

[coelhorafael@proton.me](mailto:coelhorafael@proton.me)  
[rafaelcoelho1409@hotmail.com](mailto:rafaelcoelho1409@hotmail.com)