

Assignment 2. Perform Face Detection with RetinaNet In Python

Description

The objective is to gain familiarity with the prebuilt classifiers and the preprocessing steps to leverage them.

Here are real-life practical applications of face detection:

- Biometric access to buildings (eg retina scans)
- 2) Autonomous driving vehicles recognize signs, pedestrians and ultimately their final destination so the car can pull up nicely to the curb or crosswalk
- Smartphone, web and app access is another common use case.

Getting Started

Dependencies

- RetinaFace
- Current Web Browser
- Jupyter Notebook



Results

Confidence Score: 0.9988

Facial Area Coordinates: [441, 238, 479, 287]

Landmarks (Right Eye, Left Eye, Nose, Mouth): {'right_eye': [452.95688, 258.14563], 'left_eye': [470.74933, 257.75647], 'nose': [462.83398, 268.0948], 'mouth_right': [455.45578, 276.69254], 'mouth_left': [469.06912, 276.4132]}



Help

- Microsoft CoPilot Prompts:
 - Examples of facial detection using RetinaFace Python Libraries
 - Example code of how to highlight the faces
 - Recommend any python libraries similar to retinaface and provide sample code
 - J}fr uqj ~ynts~ntij~t~wJXY~FUN~t~xjw{j~Wjy~sfKfhj~Kfhj~wjhtlsn~ts~r~tijq

Authors

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Version History

- 0.1 - Initial Release

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