Introduction to Computer Vision





Microsoft Azure

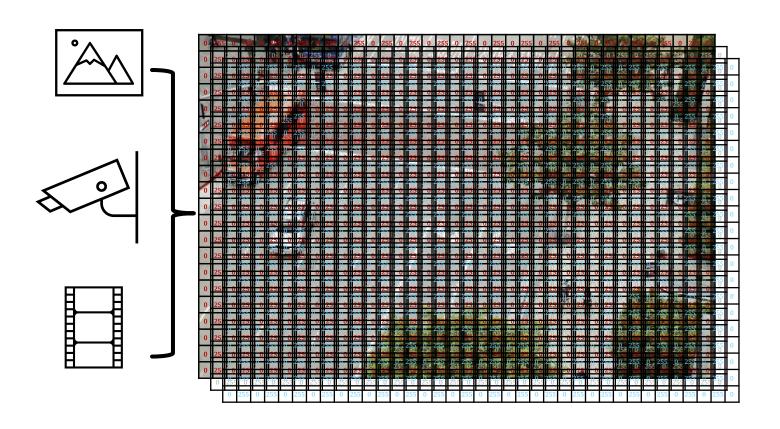
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What is Computer Vision?

"Computer vision is a field of artificial intelligence that enables systems to understand and interpret the content of digital images and videos."

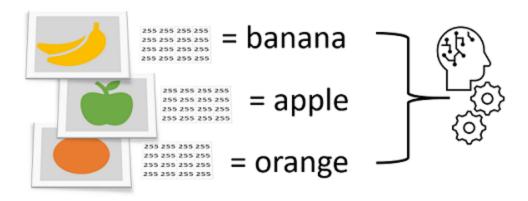


How can a system "see"?



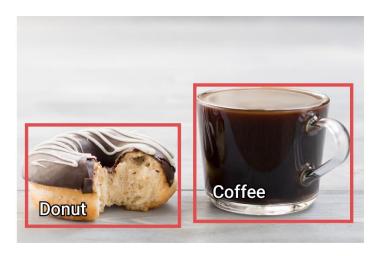
Applications of Computer Vision Object Classification

Image classification is used to determine the main subject of an image



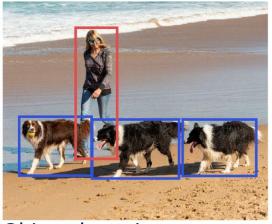
Applications of Computer Vision Object Detection

 Object detection builds upon image classification and is used to find individual objects and their locations in an image.

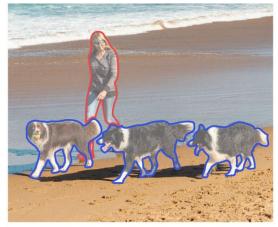


Applications of Computer Vision Semantic Segmentation

 Classifies individual pixels in an image to the object with which it belongs – providing a Mask/Outline of detected objects.



Object detection



Semantic segmentation

Applications of Computer Vision Image Analysis

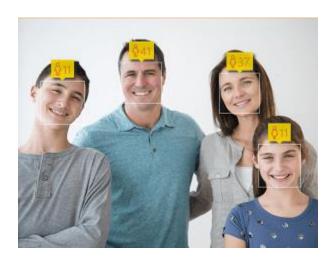
Extracts information from the entire scene of an image.



Cows grazing in a field

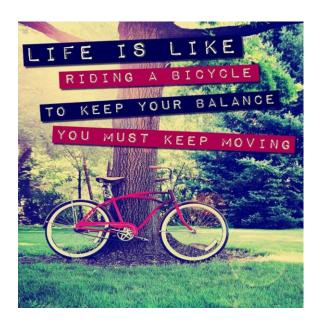
Applications of Computer Vision Face detection, analysis, and recognition

Specialized form of object detection that identifies faces in an image.



Applications of Computer Vision Optical Character Recognition (OCR)

Detects and reads text in images.





Demo



Tags:



Description:

a city skyline with water 27% confidence

Racy Content: Adult Content:

False 75% confidence Fals

False 78% confidence

Try another image

IN-PERSON EVENT

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