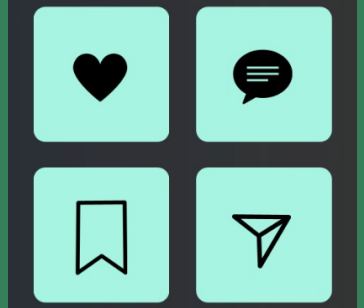
Let us know:



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The logic behind object detection models

Object detection models are neural network architectures with two main goals:

- detecting the presence of one or more different objects in an image;
- locating them by providing the coordinates.

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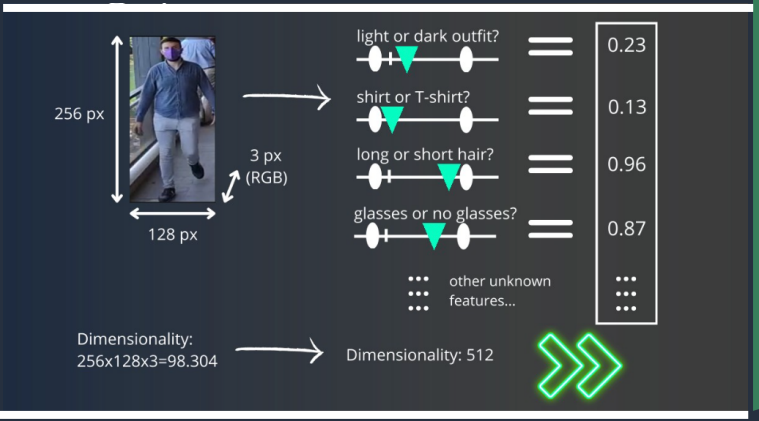
HOW DOES IT WORKS?

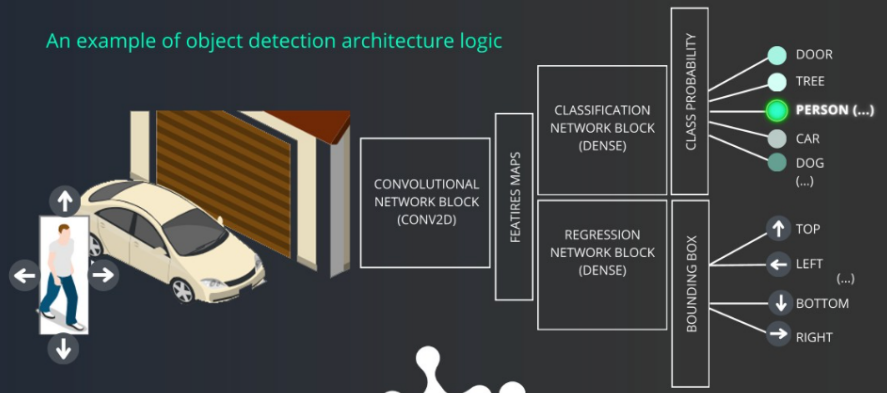
The model network receives a camera frame as an input and it outputs the following results: a classification score that denotes the type of each detected item and a list of coordinates that locate each detected object within the frame.

The coordinates are bounding boxes shaped with top-left corner coordinates and bottom-right corner coordinates in terms of image pixels.



During the past years different architectures and methods have been developed such as: region proposal techniques (R-CNN), FAST R-CNN and YOLO (You only look once).

An example of object detection architecture logic



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