Object Detection

Object detection

deeplearning.ai

You've learn about object localization as well as landmark detection. Now let's build up toward to an object detection algorithm. In this video, you'll how to use a ConvNet to perform object detection using called the sliding windows detection algorithm

Car detection example

Training set:

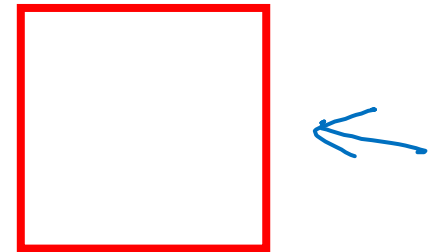| x	y
	1
	1
	1
	0
	0

 → ConvNet → y

Sliding windows detection

→ ConvNet → 0
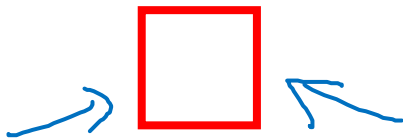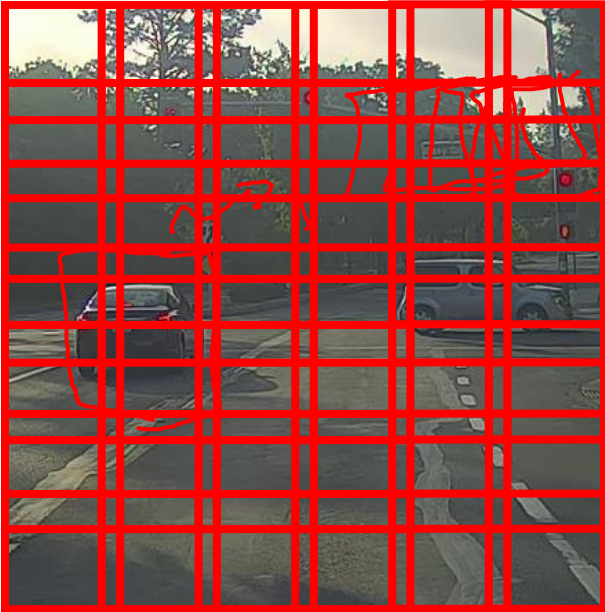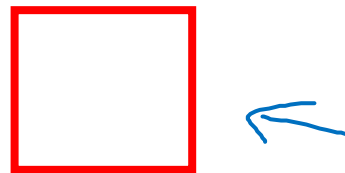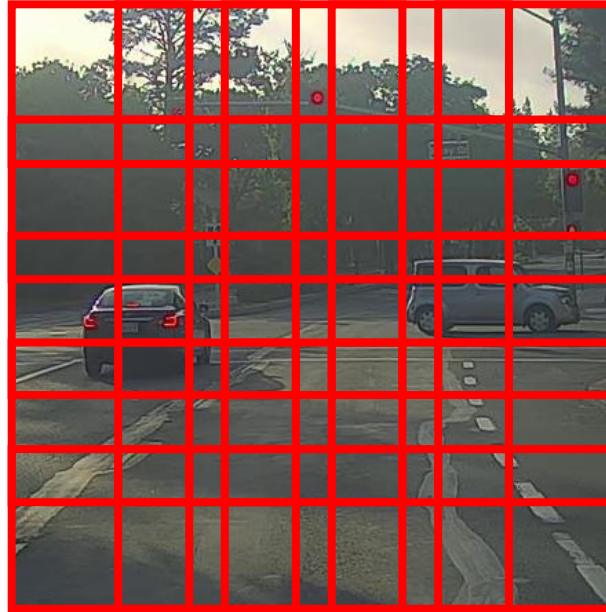
→ ConvNet

but that coarse granularity may hurt performance.

but with ConvNet, now running a single classification task is much more expensive, and sliding windows this way is infeasibly slow, and unless you use a very fine granularity or a very small stride, you end up not able to localize the objects that accurately within the image as well.

Computation Cost

Andrew Ng