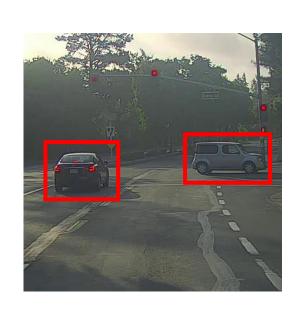


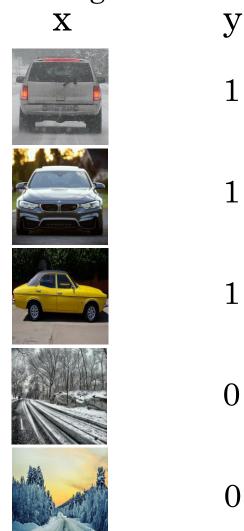
Object Detection

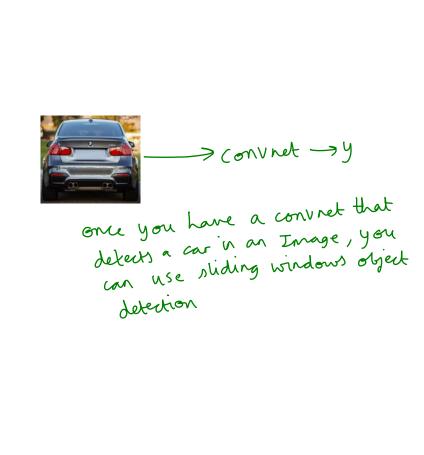
Object detection

Car detection example

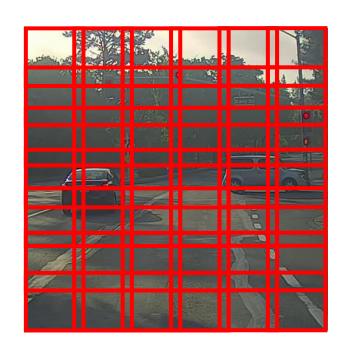
Training set:







Sliding windows detection



- Take a sliding window w/ some Stride & pars it to the conv net for it to detect a y value (0 or 1) - For each small square passed, you get a y value (hopefully ŷ=1 when there is a car in that window)

2 criteria (1) Passing through multiple windows

& computing the same Image is

& computing the same Image is

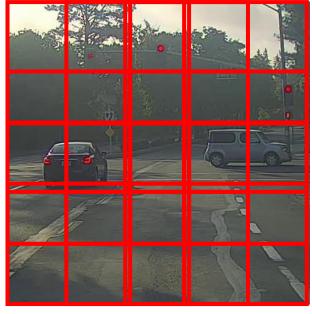
enpensive in CNN

(2) can make the Stride bigger => fewer

Computations, but then performance I

3 Making Stride very small

=> computation Cost 1



pur the same convinct who same trage, windows

larger window Hopefully $\hat{y} = 1$ for window attends 1 of these window Andrew Ng