Tema 17: Localización de Objetos y

Landmarks

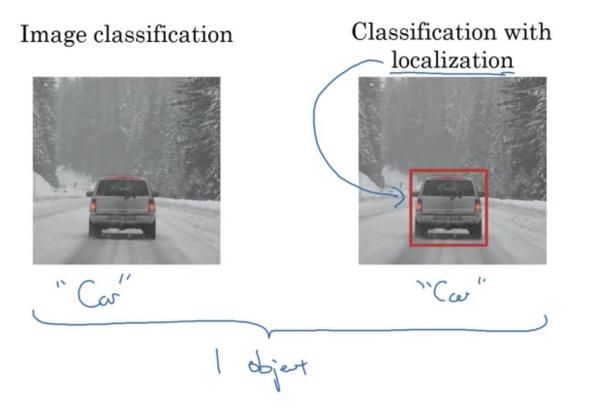
Region proposal: R-CNN

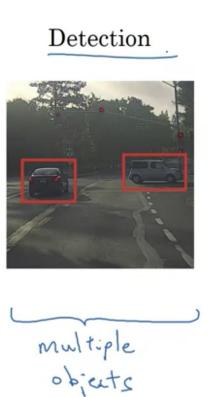




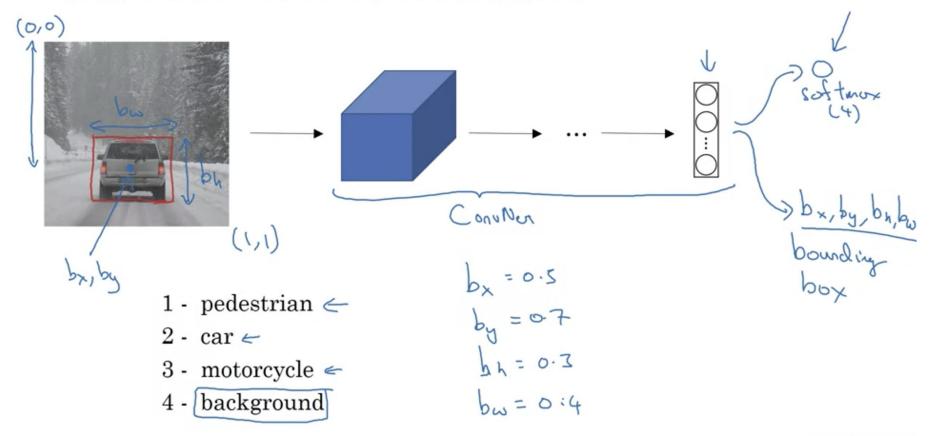


What are localization and detection?





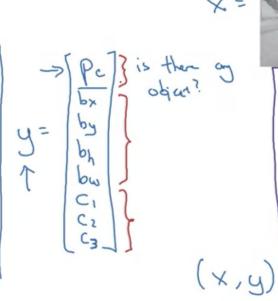
Classification with localization



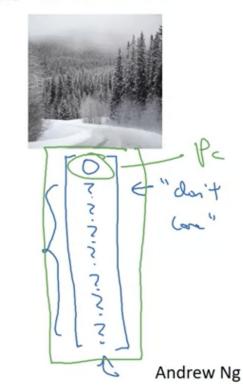
Defining the target label y

1 - pedestrian
2 - car
3 - motorcycle
4 - background

$$\begin{cases}
(\hat{y}_{1}-y_{1})^{2} + (\hat{y}_{2}-y_{2})^{2} \\
+ \dots + (\hat{y}_{8}-y_{8})^{2} & \text{if } y_{1}=1 \\
(\hat{y}_{1}-y_{1})^{2} & \text{if } y_{1}=0
\end{cases}$$



Need to output b_x , b_y , b_h , $\underline{b_w}$, class label (1-4)



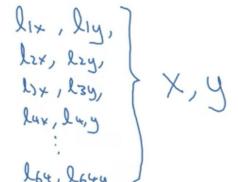
Landmark detection



 b_x,b_y,b_h,b_w







ConvNet



lix, liy,

Andrew Ng