



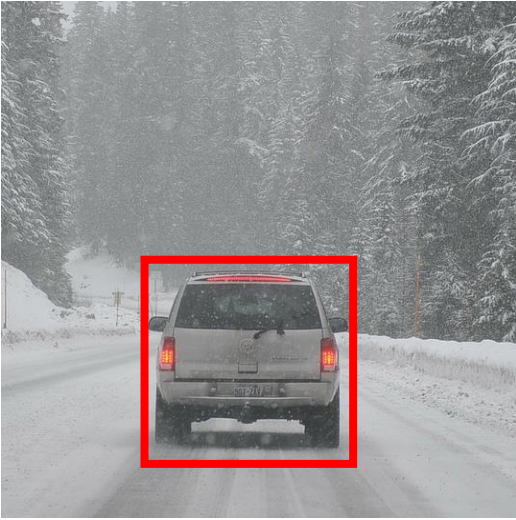
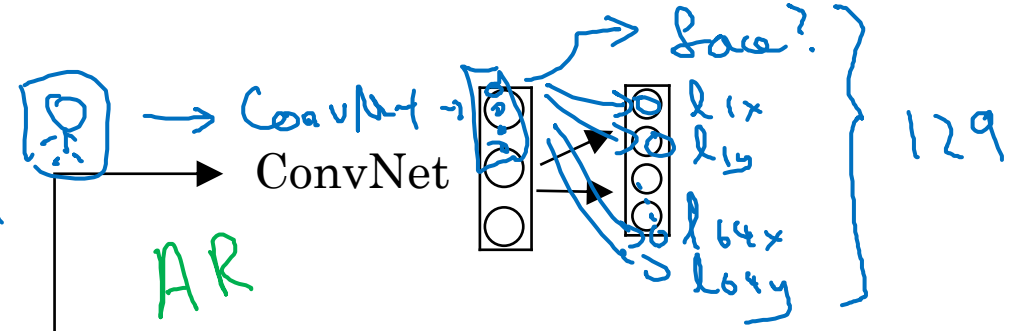
deeplearning.ai

# Object Detection

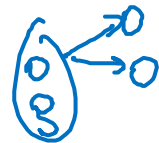
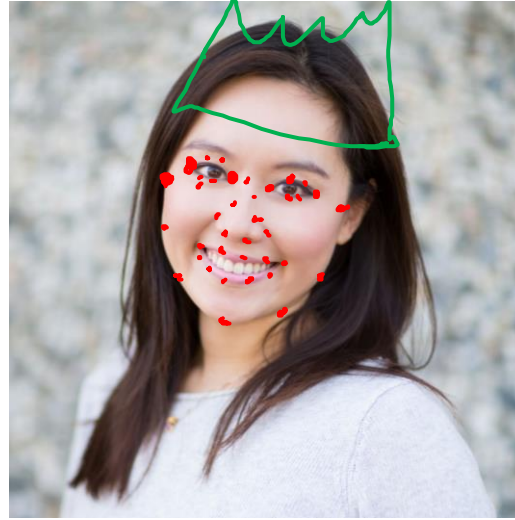
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Landmark  
detection

# Landmark detection



$b_x, b_y, b_h, b_w$



$\left. \begin{matrix} l_{1x}, l_{1y}, \\ l_{2x}, l_{2y}, \\ l_{3x}, l_{3y}, \\ l_{4x}, l_{4y}, \\ \vdots \\ l_{64x}, l_{64y} \end{matrix} \right\} X, Y$

$\begin{matrix} l_{1x}, l_{1y}, \\ \vdots \\ l_{32x}, l_{32y} \end{matrix}$