Lecture 6

Try : - Normalization - Batch Normal: 20tion - Drop out - Augmentation coffine transforation

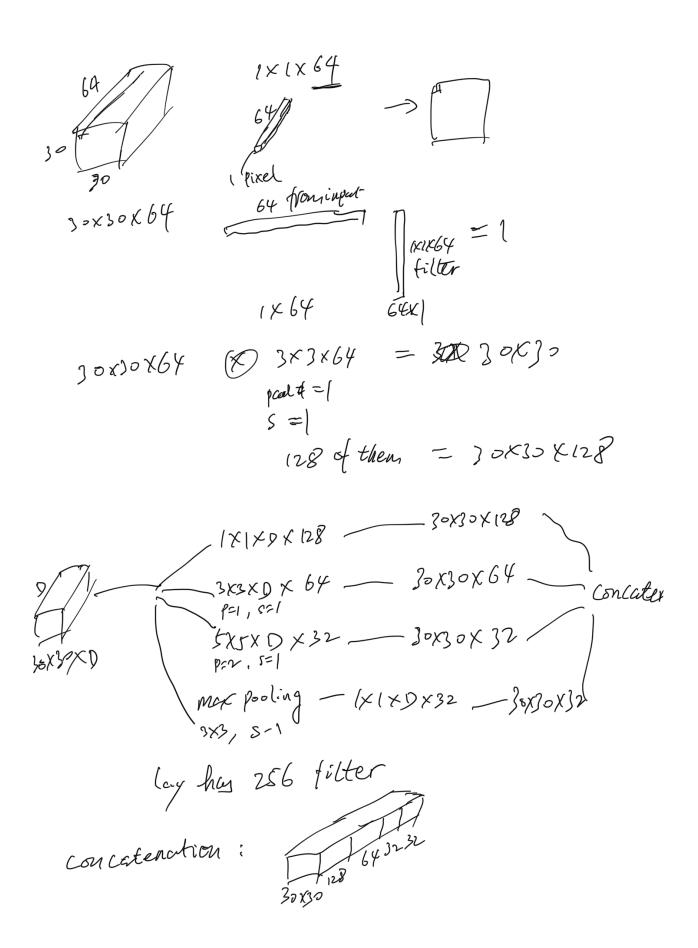
- pixel augmentation - vange

Location

- color augmentation | bridgetness, contrast,

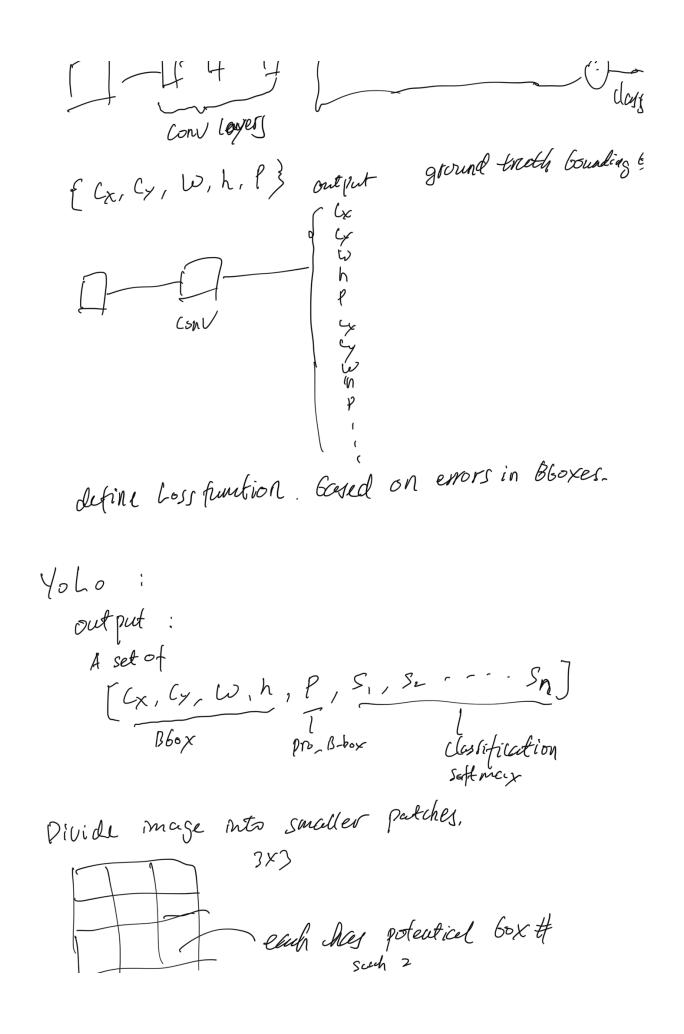
saturation - ENSemble layer 17817 ResNet

Can Relu



Applications: object recognition, localization segmentation, human par estimation, object pose estimation. facial recognition. localization: output - bounding boxes. ((Cx, Cy, w, h), 5,,52, --- Sn)

possible
object types is n R-CNN 2,000 bruding boxes. 1. act 2,000 bounding boxes 2, Run ConvNet on each to necognize. 2.000 [Cx, (4, (0, h) warp, convert to a fixed size. step 2 output: for each bounding boxes. output classification result, & effsets. Fost R-CHM



pun in parcellel 2 bounding boxes output in $S_{\nu_{i}}^{\tau} - \cdots S_{n}^{\nu}$ for 6x, (5+n) X2 $C_{X,}(y)$ $C = \int ((x - \hat{C}_{X})^{2} + ((y - \hat{C}_{Y})^{2})$ box, w, h regression less confidence loss fully overlap with groundth BGox - P=1 proposed 860, $\hat{p}-1$ not fully overlap with ground the Bbox - P=? LOU give you P P = AUR