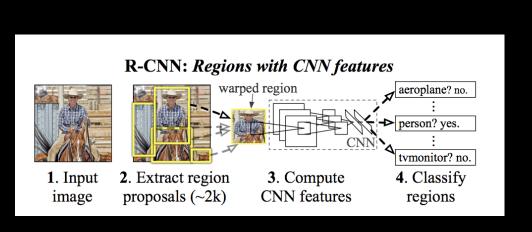
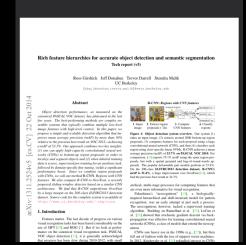
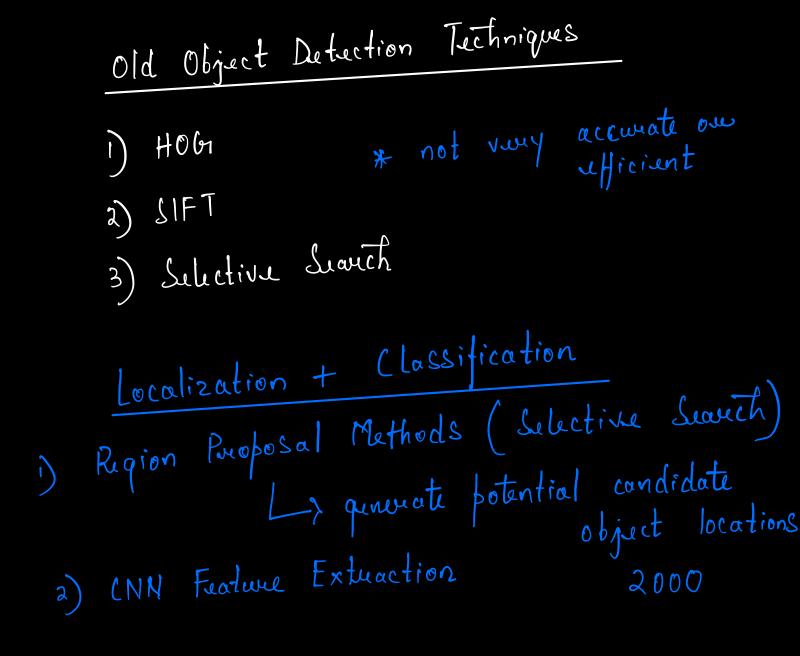
R-CNN (Regions with Convolutional Neural Networks) is a deep learning-based object detection framework introduced by Ross Girshick et al. in 2014. It was one of the first approaches to successfully apply Convolutional Neural Networks (CNNs) for object detection.







Pipeline

1) Region Preoposal Generation Selective Leanth 2K
2) Frature Extraction by CNN • Valu Alexnet Resize (224 x 224 x 3)
3) Classification • SVM
Bounding Box Requession Fine Tune Bbox coordinates
Limitations
1) Slow Influencing * Computationally expensive Regions
2000 Regions 50 Suc fue image on GPU

2) Storuage Orwitead

- * High Storrege Requirements
- 3) Not End to End Trainable

3 components (Region Preoposal, Frature Extraction, Classification) Trained Separately

Introdements

-) FAST RCNN
- 2) FASTER RCNN