

Problems with Fast R-CNN

- Selective Search is a time taking process
- No training is happening in selective search





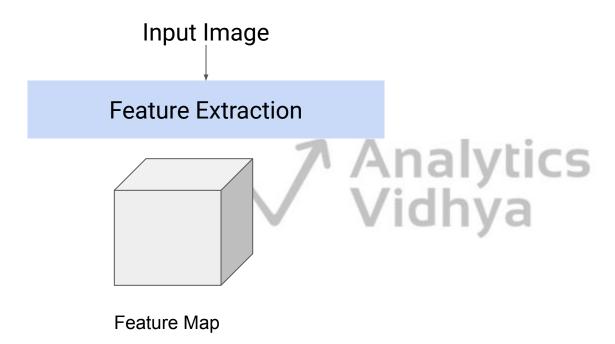
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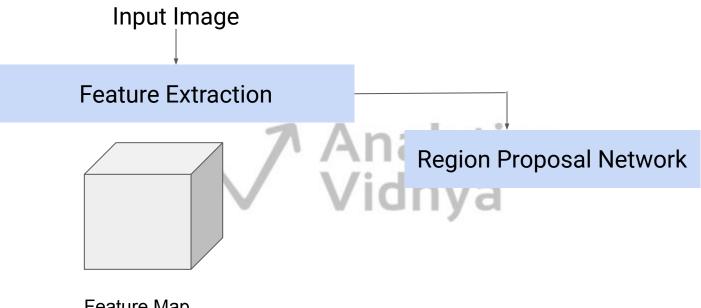
Solution?

Use Convolutional Block for region proposals



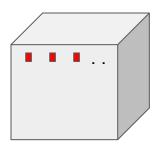








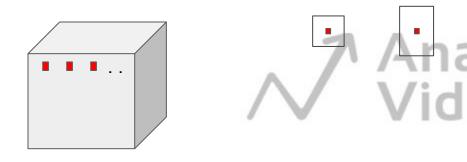






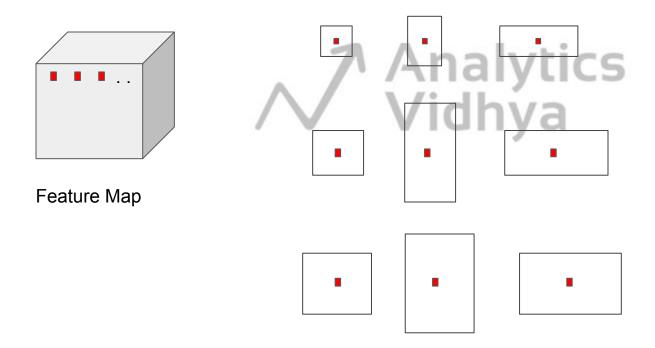
Feature Map



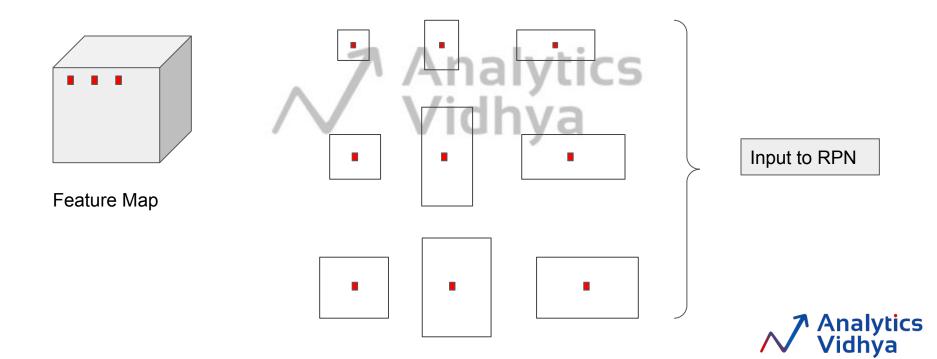


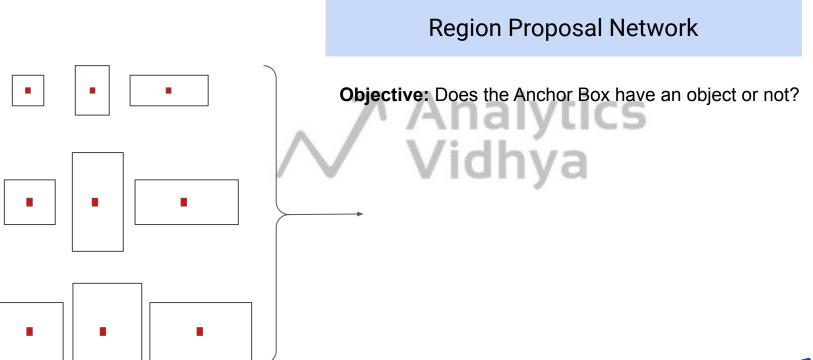




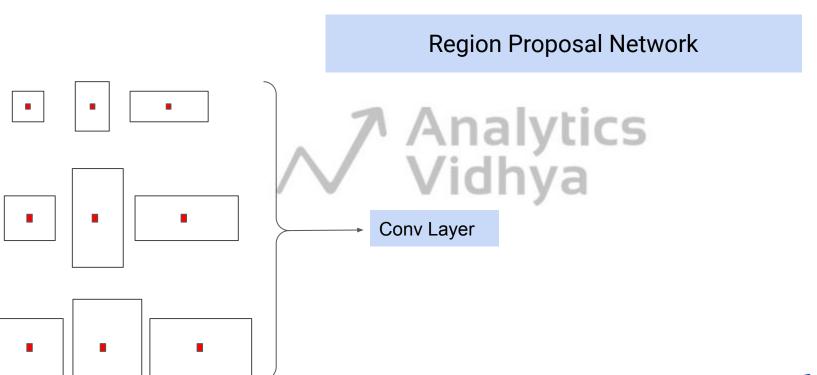




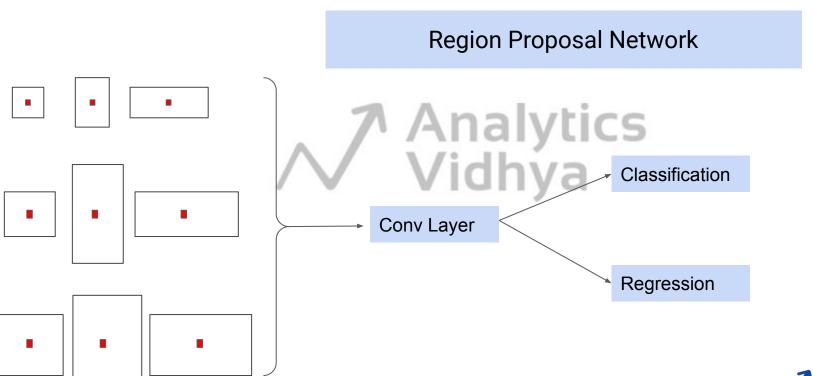




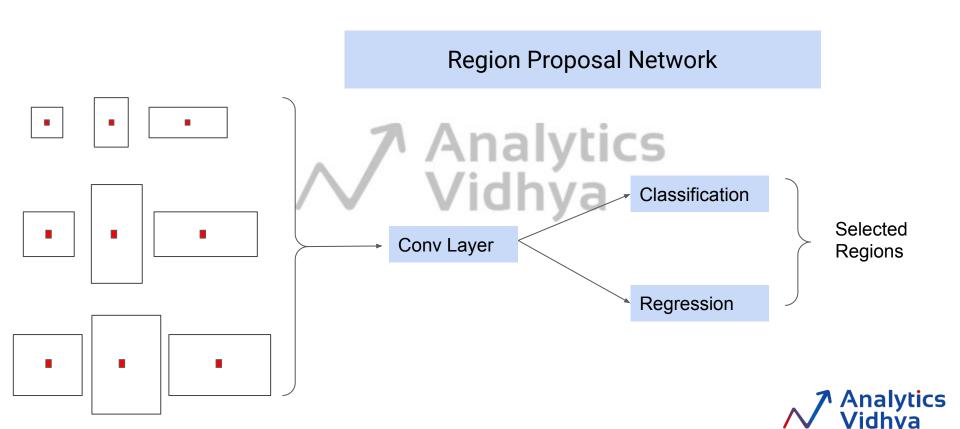


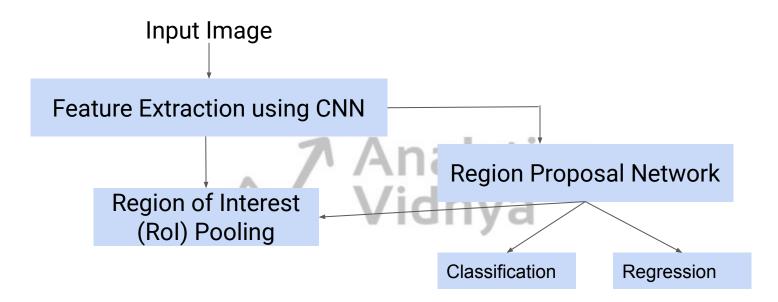




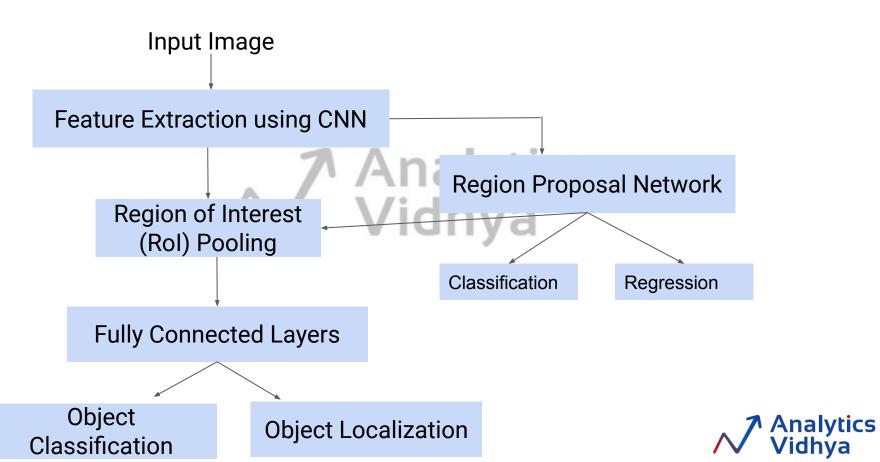
















- 3×3 convolutional layer with a padding of 1 and stride =16
- Region Proposal Network is trained along with rest of the model
- Objective Learn to generate high-quality proposed regions

