

Code Hierarchy - RetinaNet

- Hyperparameters
- Resnet-50 Model
- Retinanet Model (Resnet50 as Backbone)
 - Feature Pyramid Network
 - Subnet Models(Regression & classification)
 - Retinanet Model
- Retinanet Box (Inference Model for Object Detection)
 - Generate Anchors
 - Regression & Clip Boxes
 - Filter Detection
 - Retinanet_Box Model
- Loss Function
 - Focal Loss
 - Smooth L1 Loss
- Import libraries for Pascal VOC2007 Dataset
- Training Model
- Object Detection
 - Predication based on Retinanet Box
 - Object Detection Demo

Blue Colour -> Own Implementation

Black colour -> Import from open source code

Dataset:- Pascal VOC 2007