TPA 12: Part-based multi-scale object detection for PASCAL dataset using pyramid of filters

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Problem Statement: The work aims on the development of system that detect part-based, multi-scale object for pascal dataset VOC2011 using hierarchy of filters. System is to design in such a manner that if inputs are given a test image and class of object then it is capable of making boundary box on detected parts of that particular class object on input image.

Input: Input to the system are the following

- Test Image
- Class of Object

Expected Output: The developed code should be able to do the following

- Detect the location of the object in the given image, even under partial occlusion, illumination and pose variation.

Hint for excellence:

- *Detection of partially visible objects*
- *Detection of object from images with background clutter.*

References

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