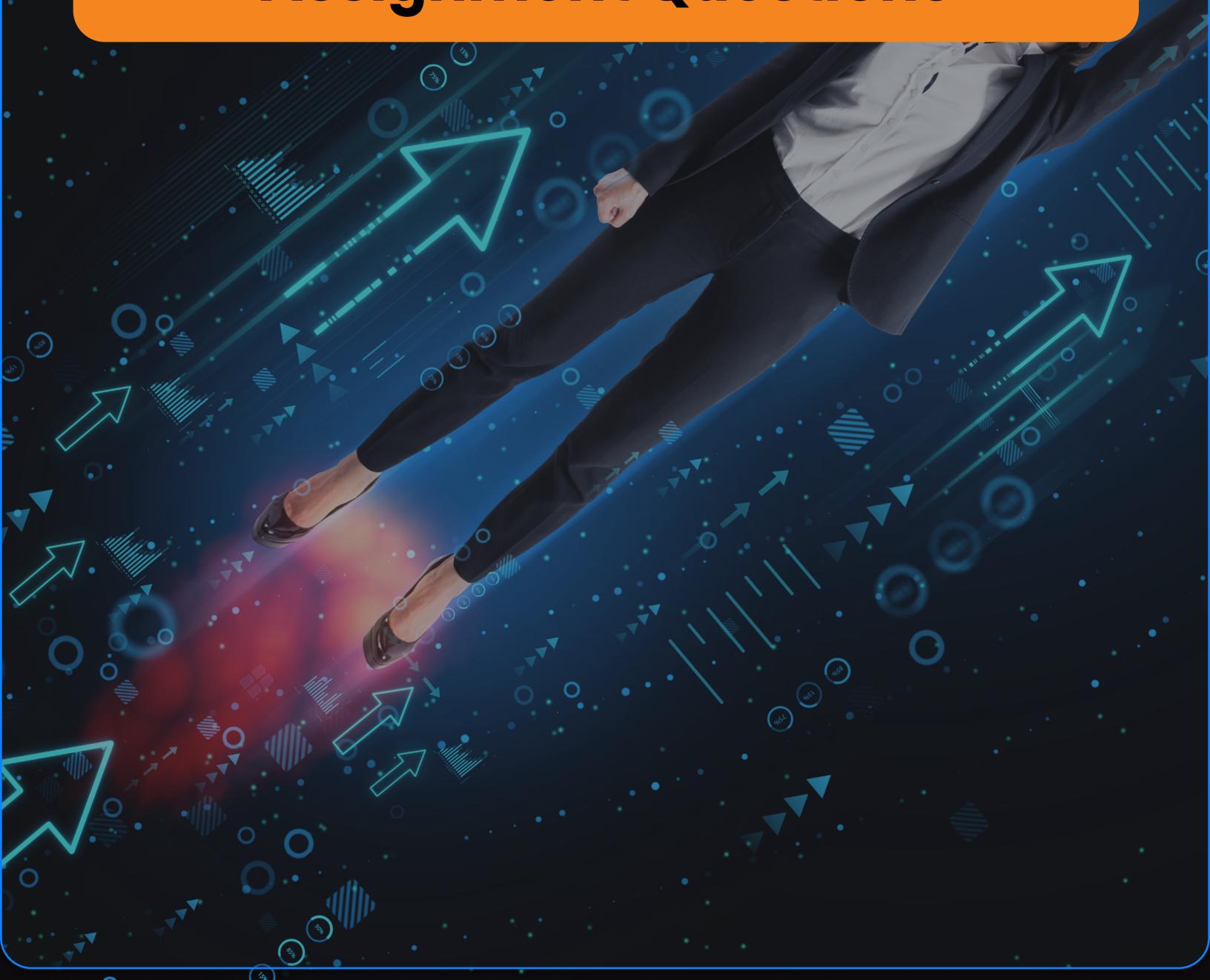


Faster R-CNN

Assignment Questions



- 1. Explain the architecture of Faster R-CNN and its components. Discuss the role of each component in the object detection pipeline.**
- 2. Discuss the advantages of using the Region Proposal Network (RPN) in Faster R-CNN compared to traditional object detection approaches**
- 3. Explain the training process of Faster R-CNN. How are the region proposal network (RPN) and the Fast R-CNN detector trained jointly?**
- 4. Discuss the role of anchor boxes in the Region Proposal Network (RPN) of Faster R-CNN. How are anchor boxes used to generate region proposals?**
- 5. Evaluate the performance of Faster R-CNN on standard object detection benchmarks such as COCO and Pascal VOC. Discuss its strengths, limitations, and potential areas for improvement.**