Methodologies of Object Detections	Diagrams	Flowcharts	
The YOLO algorithm takes an image as input and then uses a simple deep convolutional neural network to detect objects in the image.	How does YOLO work? YOLO Architecture When the property of th	The state of the s	
Region-based Convolutional Neural Network (R-CNN) is a type of deep learning architecture used for object detection in computer vision tasks.	which came, we can the part invited allgoring capability and which were considerable to applicability of the capability	TOOL OF SERVICE STATE O	
Fast R-CNN is an object detection algorithm that processes images through a CNN backbone, extracts feature, generates region proposals, and then classifies and refines bounding boxes for each proposal.	To Act of State and State	On common deliberaria Common Service Francisco Se	
Faster R-CNN is a two-stage object detection algorithm that uses a Regional Proposal Network (RPN) and a CNN to identify and locate objects in images.	Pose - resident has delicated and an advantage of the position	Security State May Department of the State May Department	
SSD means Single Shot Multi Box Detector. It uses a single convolutional neural network (CNN) to predict both bounding boxes and class labels for objects in an image, making it faster than traditional two-stage methods.	Section and the section of the secti	No. of Address and Section 19 and Address	
Steps involved in a typical object detection task (Pareto.AI) *Image preprocessing-> Feature extraction->Region proposal ->Classification and Localization->Non- Maximum Suppression->Bounding Box Regression>Post processing*	source library d developing and the-art machine applications".	1. TensorFlow –" is a leading open- source library designed for developing and deploying state-of- the-art machine learning applications".	
Bounding boxes – are rectangular regions drawn around objects in an image Annotations –process of labeling and identifying Confidence scores – numerical value (0 to1) Intersection over Union (IoU) – a metric used to measure accuracy Additional Resources 1. https://viso.ai/deep-learning/object-detection/	friendly Python API designed for building and experimenting with neural networks, simplifying the process of developing and deploying deep learning models". 3. OpenCV –" used for Computer Vision and machine learning tasks, enabling image and video processing, object detection, and		
2. https://neptune.ai/blog/object-detection- algorithms-and-libraries	more".	oogle; AI Overview	

What I Have learned on This Assignment

This assignment is like a summary of what I should learn or must learn this spring semester. This exposed me to methodologies of Object Detection and made me improve my skills in a certain degree in technology. I got exposed to different algorithms like R-CNN, Fast R-CNN, Faster R-CNN, SSD, and YOLO. It made me explore through TensorFlow, Kera, and OpenCV. Through the process, there are so many challenges and troubleshooting tips out there to be tried. Learning doesn't stop here though. This concept of computer vision is very challenging for me but I find it very interesting.

How Could This Be Benefited in the Future

After this class is over, learning about Computer Vision will not stop here for sure. The skill will be mine to use in exploring further for a very successful journey in Computer Vision, Artificial Intelligence or the next inventions in technology which I can use in my line of work since AI is becoming more and more a necessity now in any area.

References:

AI Overview

Google

http://geeksforgeeks.org

http://mdpi.com

https://medium.com>understanding-and-implementing...

http://researchgate.net

http://v7labs.com