Ahmedabad
University

CSE 541 - Computer Vision

Weekly Report 26_02_2023

Team: - Pixel Pioneers

Group Member Details

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Tasks Performed in the week

As mid-semester examinations were going on, we were not able to focus much on the project but still, we tried to achieve maximum efficiency.

- We have studied and analyzed the dataset's attributes, directories, labels, attributes, and segmentation images.
- We have created an environment for coding and updating it from time to time as we learn new things. Link of the same will be in reference
- All our members have started researching and learning how we will implement DEEPSORT from scratch.
- We have also started training YOLOv4 with the bdd100k dataset which is expected to take some time due to its complexity.

Outcomes of the Tasks Performed

- We have studied the following code in this week which is used to detect the object we are planning to use this following code to train the YOLOV4 model for the custom dataset of BDD100k.
- Link for the reference code is:
- https://colab.research.google.com/drive/1lJOCcKcUWSLpGcrWyT4VaqIzLM34Pybv?usp=sharing

Tasks to be performed in the upcoming week.

- For testing and training purposes, we will be ordering a camera and clicking sample pictures by ourselves to test out our algorithm with images containing very few objects and then we will scale up to more and more objects in the frame. https://www.amazon.in/HP-Webcam-Wide-Angle-Calling-Microsoft/dp/B08FTFXNNB/ref=sr_1_3?crid=ICEUD2XW8EXS&keywords=webcam&qid=1676528870&sprefix=webcam%2Caps%2C319&sr=8-3&th=1
- Training YOLOv4 with the dataset