**Review of Pytorch Tutorial**

At first, we went through the tutorial **torchvision\_finetuning\_instance\_segmentation**. But there we did not understand the full code with our level of understanding of these associated topics. But we understood thus far:

We are supposed to finetune the pertained model **Mask RCNN** on  [Penn-Fudan Database for Pedestrian Detection and Segmentation](https://www.cis.upenn.edu/~jshi/ped_html/).

To accomplish this, we have imported some tools named **Cython, PIL import Image**. Then we had to load a dataset there that had 2 forms for every image. One was a real image and the other was a mask image.

There we first viewed an image with the PIL library. Then with the help of a method from the same library we viewed the same picture’s masked version.

Mask R-CNN, which is based on top of Faster R-CNN. Faster R-CNN is a model that predicts both bounding boxes and class scores for potential objects in the image.

And then we had to define the dataset in other words we had to build the data engine. From a particular image a lot of data is coming and the engine collect the data that would behave in a way depending on the data.

We stopped on this part as we do not yet have that level of expertise with pytorch.

After this we moved to a pytorch learning tutorial.

https://www.youtube.com/watch?v=GIsg-ZUy0MY&t=5245s

There we learned about:

* pytorch tensors,
* Tensor operating and gradients,
* Interoperability between PyTorch and Numpy
* linear regression and gradient descent
* Training a linear regression model using the gradient descent algorithm