**Image Segmentation for Self-Driving Cars With U-NET**

Watch the YouTube tutorial to gain a basic understanding of image segmentation. Read through the research paper to grasp the theoretical background and specific considerations for self-driving cars. Study the Kaggle notebook and use it as a guide for implementing your own image segmentation model. Utilize the dataset available on Kaggle (which is referenced in the notebook provided), train your model as per the instructions in the notebook. Use the dataset for training and testing your segmentation model. Follow the steps outlined in the notebook to get started.

1. [PyTorch Image Segmentation Tutorial with U-NET Video](https://www.youtube.com/watch?v=IHq1t7NxS8k)

This YouTube video serves as a starting point, giving a broad overview and foundational understanding of image segmentation using deep learning using PyTorch.

1. [Research Paper on Image Segmentation for Self-Driving Car](https://drive.google.com/file/d/19tHrl3NHvk0WJcTtgEkSpUVu0Jc0NHva/view?usp=sharing)

This PDF document adds depth by discussing specific considerations for self-driving cars, such as dataset usage, evaluation metrics, and computational efficiency.

1. [Kaggle Tutorial with Dataset](https://www.kaggle.com/code/tashyab/u-net-with-98-58-accuracy/notebook)

This Kaggle notebook provides a hands-on implementation of the U-Net model using TensorFlow.

This is for this week, for resume verification you need to implement U-Net model, make a report and push report and code to github.