This is the super excited project I am on, where I finally able to train a car and drive “without” any instruction.

After generating some data sample that I think would be good enough for the project, where the data shape of X and y train are (1553, 160, 320, 3) (1553,).

For the first model, the car keep running in circle.

On the second where I use the Nivida model where the car performing perfectly on the first 30 sec, where it knows to stay on the lane. However, it ends up hitting into the mountain and not knowing what to do and it keeps going and eventually ran into the deep ocean.

I think the model is pretty good yet that might be a dataset size and quality problem. So I decided to gather a bigger data sample.

The first training from the second dataset ((2349, 160, 320, 3) (2349,), the car is driving much more center than before. However, it ends up hitting into a road block before the bridge and stuck there.

The third time when I was gathering data (2270, 160, 320, 3) (2270,)

, I intentionally hit into the block that it was stuck from last time and back up and return to the road again. Also I did that for few times and drive very centered after returning in to the path. This time the car run much smarter than last time successfully.