AI-Car Project with Unity and Python

# First Results with Naive Bayes and one Training Round:

Code: learning\_results\_01\_nb.py  
Dataset: learning\_training\_data\_results\_01\_nb

Results:

Length of Dataset: 165

Length of Training-Data: 123

Length of Test-Data: 42

Test Score

Score of isTurningLeft-Prediction: 0.959349593495935

Score of isTurningRight-Prediction: 0.7154471544715447

Score of isKeepingSTraight-Prediction: 0.6910569105691057

Score of isAccelerating-Prediction: 0.9186991869918699

# Second Results with Naïve Bayes and 3 Training Rounds:

Code: learning\_results\_01\_nb.py  
Dataset: learning\_training\_data\_results\_02\_nb

Results:

Length of Dataset: 656

Length of Training-Data: 492

Length of Test-Data: 164

Test Score

Score of isTurningLeft-Prediction: 0.9308943089430894

Score of isTurningRight-Prediction: 0.7296747967479674

Score of isKeepingSTraight-Prediction: 0.6910569105691057

Score of isAccelerating-Prediction: 0.9024390243902439

# Third Results with Naïve Bayes and 10 Training Rounds (driving faster and not that cautious the last 7 rounds):

Code: learning\_results\_01\_nb.py  
Dataset: learning\_training\_data\_results\_02\_nb

Results:  
Length of Dataset: 5017

Length of Training-Data: 3762

Length of Test-Data: 1255

Test Score

Score of isTurningLeft-Prediction: 0.9234449760765551

Score of isTurningRight-Prediction: 0.6533758639021797

Score of isKeepingSTraight-Prediction: 0.5683147262094631

Score of isAccelerating-Prediction: 0.960127591706539