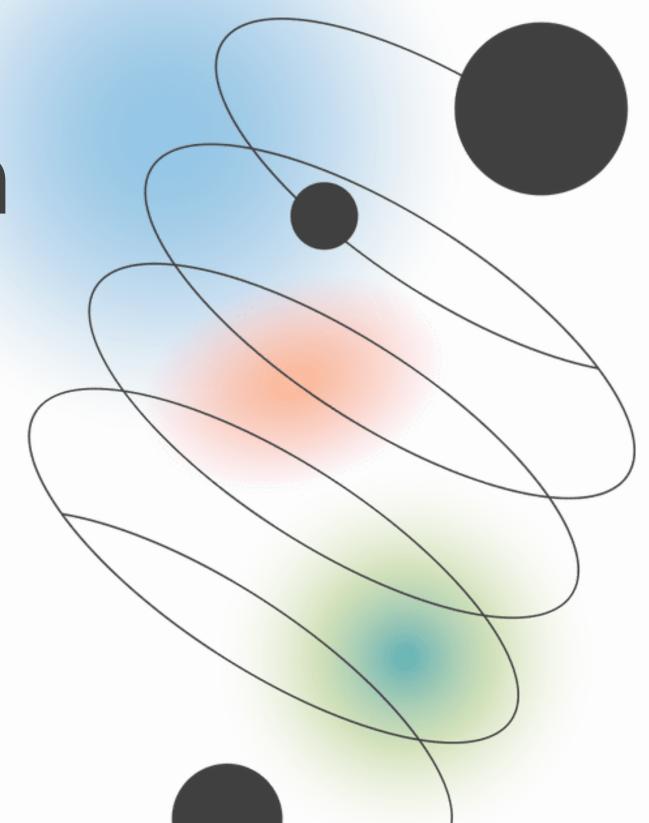
Augmentation comparison in Motion Prediction

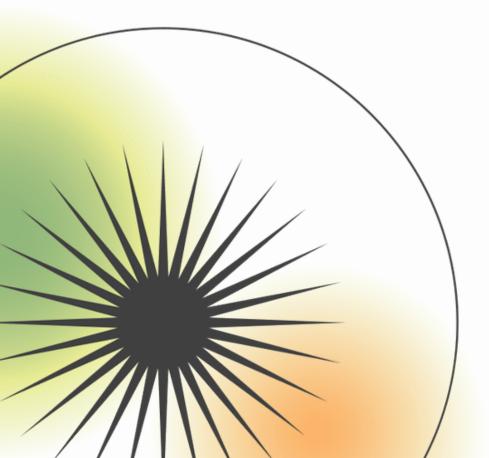
By Khomutova Ksenia SFU (Siberian Federal University) Software Engineering, 3d year



Problem

A small variety of trajectories in the input data.

Solution

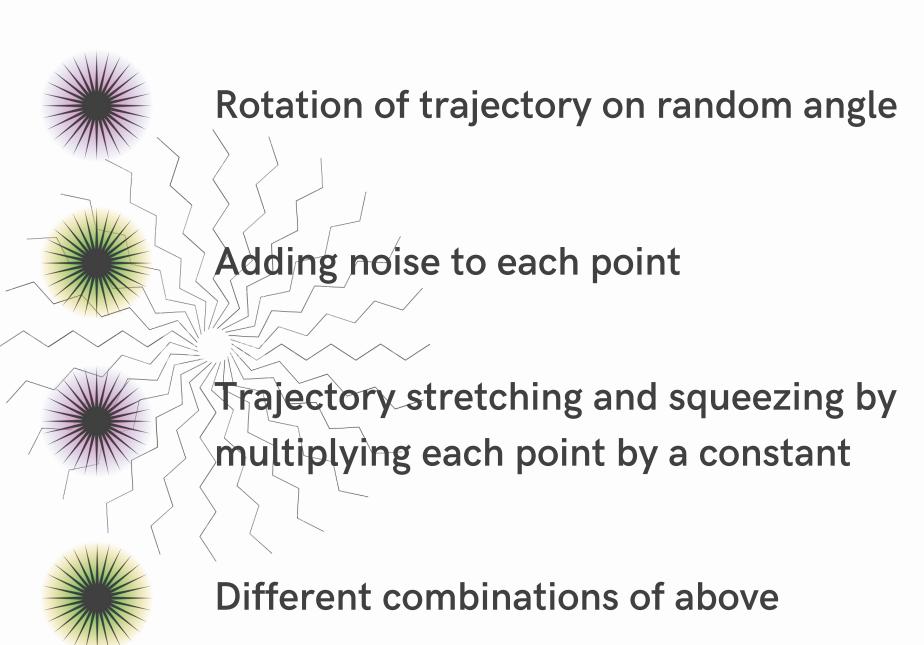


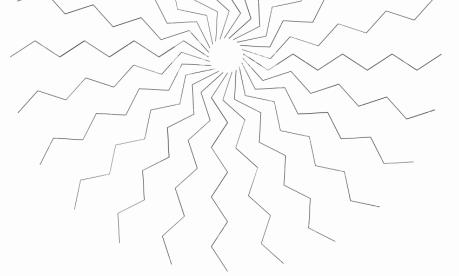
Artificial increase in the training sample by modifying the existing data.

Results

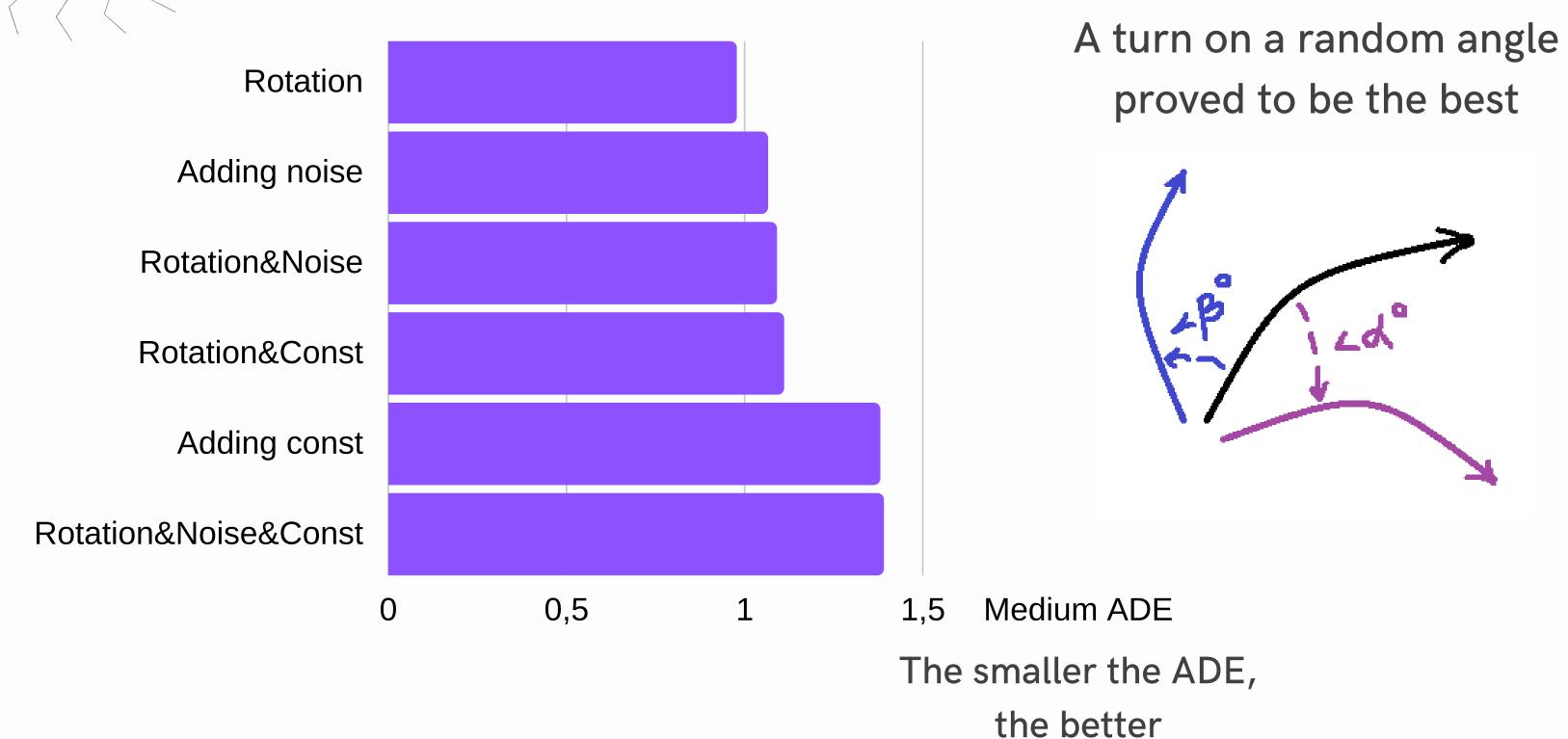
				Medium FDE \$	Ü	Long FDE \$
My CNN submission	0.61	1.19	1.37	3.18	3.86	9.84
Baseline	0.72	1.50	1.69	3.93	4.60	11.38

What was tried





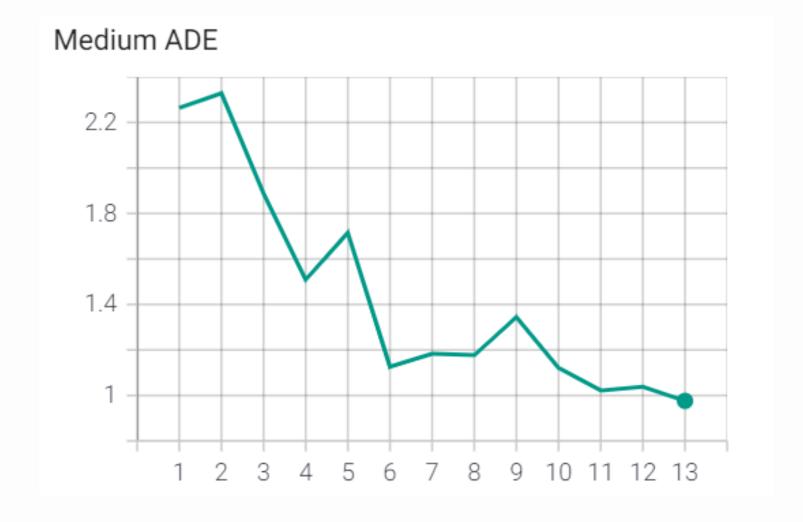
Methods comparison

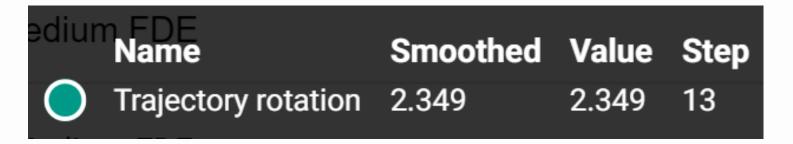


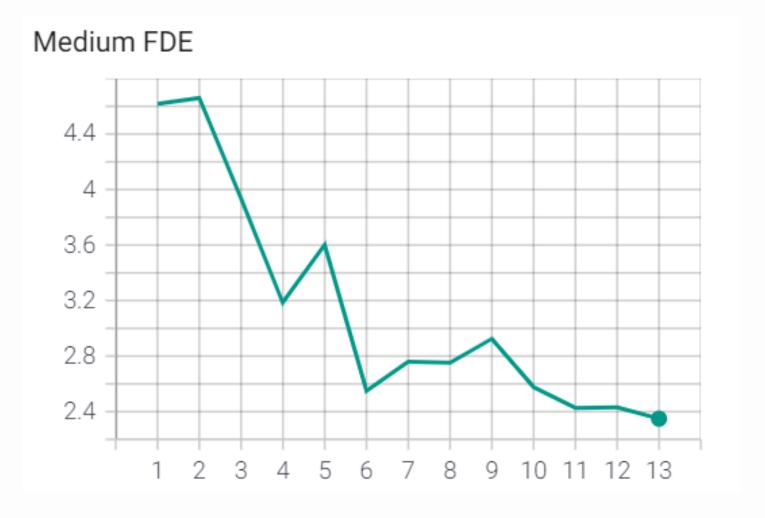
Best solution

Score on validation

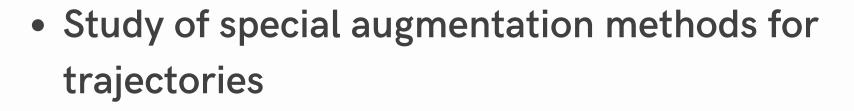
Name	Smoothed	Value	Step
e Trajectory rotation	0.9761	0.9761	13



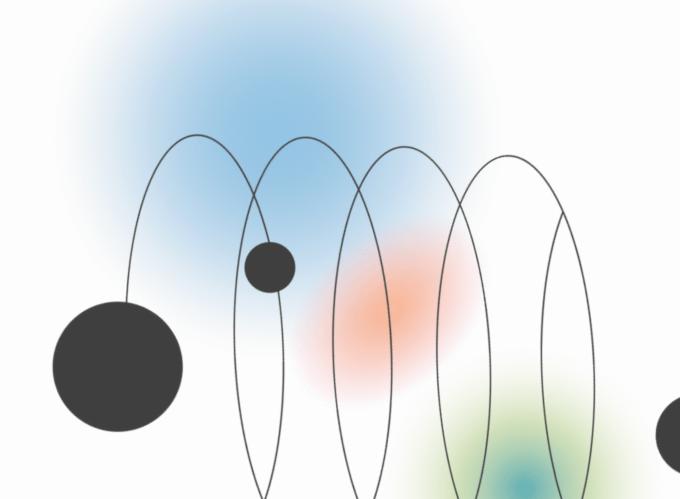




What's Next



- Deep analysis of the dataset and the use of other techniques to improve the result
- Research of information on motion planning on top of motion prediction



Thank you for your attention!