

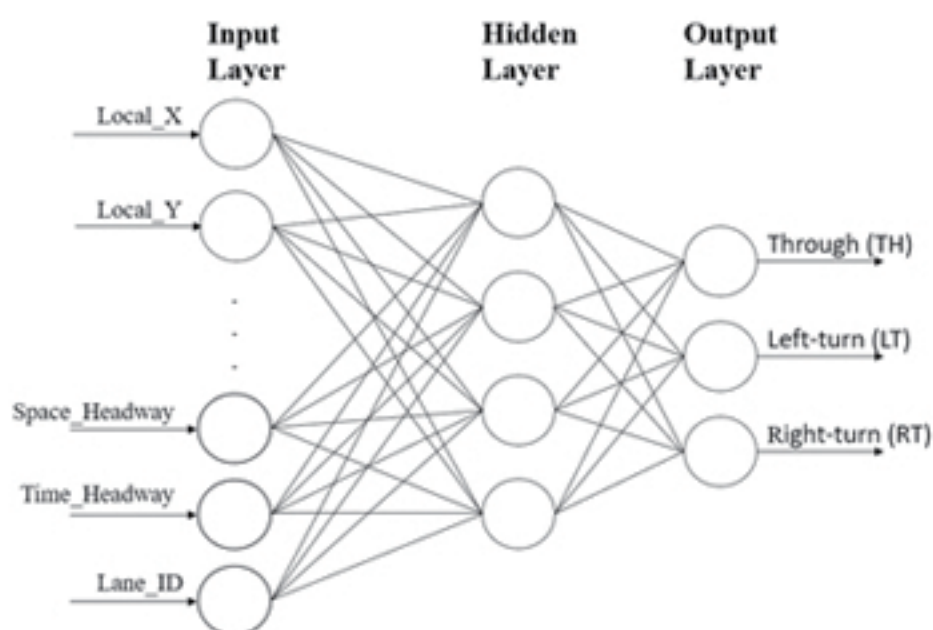
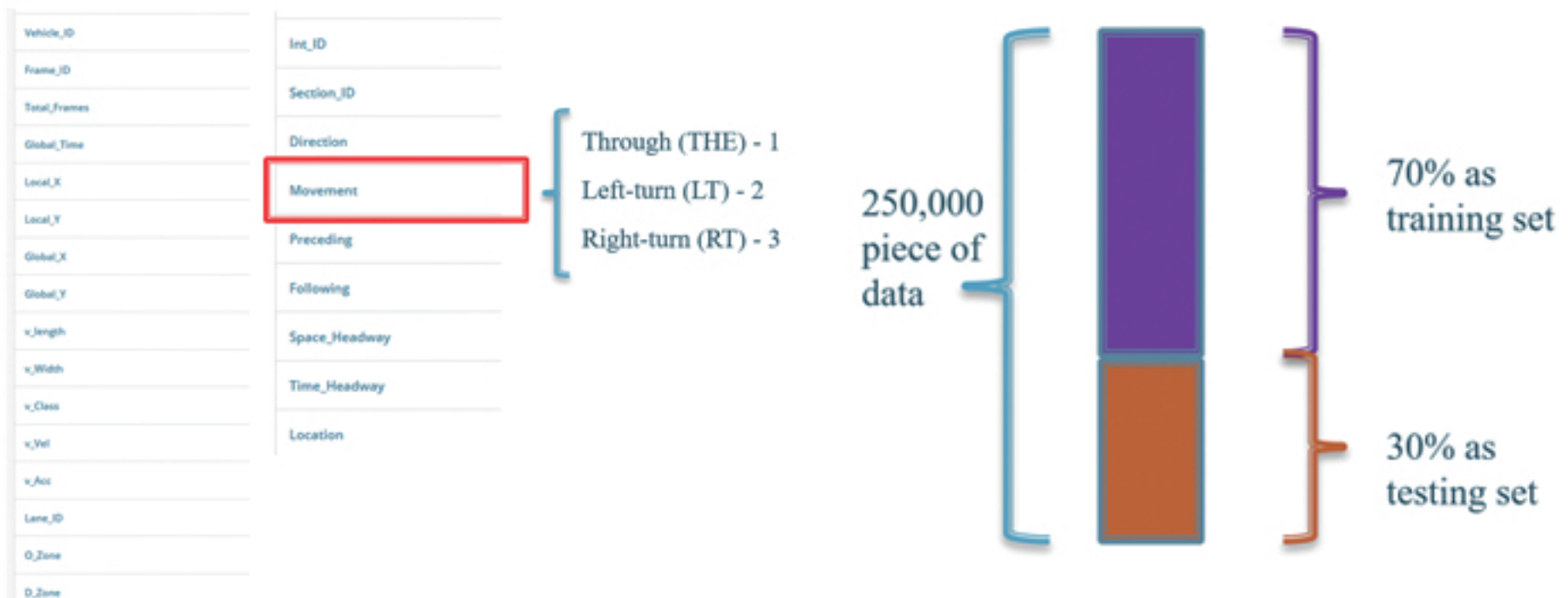
Projet de Fin d'Etudes

Prediction of Vehicle Turning Behavior via Machine Learning

In this paper, a combination of logistic regression and neural network is used to build a model to predict vehicle steering behavior based on vehicle driving data. The model was trained and tested with about 250,000 valid actual data, and the prediction success rate in retraining reached 93.01%, and in the random test, the prediction accuracy rate reached 93.02%. It shows that this model can well predict the turning intention of the vehicle through the driving data, and thus can assist the planning of the urban transportation network



Xinran LIU5A 2019
Option du Réseau
Sous la direction de :
MAIZIA MINDJID



Profile Summary

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Function Name	Calls	Total Time	Self Time*	Total Time Plot (dark band = self time)
main	1	3653.815 s	0.043 s	
onCostFunction	267	3652.956 s	3392.503 s	
fmincg	1	3629.510 s	0.457 s	
_var_size_num_labels_X_train.y.lambda()	112	3629.053 s	0.006 s	

Training Accuracy: 93.010012

Testing Accuracy: 93.026802

fx >>