cross\_validation\_saver

This folder contains the trained pixel based and to end driving models. we save these models here to explain it in the future. note we have used 5 folder cross validation, therefore for our 500 images data set we will train five different driving models and during the training process each driving model will be saved because we may want to say in the training process how will the explanation result evolve, despite our paper do not cover this area, but I believe this area is still interesting.

DataLoading

this folder contains different kinds of data set packaging and making batches

Model

this folder contains the parameter and architecture of deep learning models(AKA pixel based and the to end the driving models). Here we made a note about each Python file name and the model name in the paper. The Convolution2D\_LSTM\_transfer, Convolution3D\_LSTM\_transfer, Convolution3D\_only\_transfer, are the LCRN-18, LCRN-50, 3D-CNN respectively in the paper.

Run

in this folder there are two Python files, RunBuilder can be neglected, the regional usage is for hyperparameter search, but we do not cover this area in our research, and we did not use it.. RunManager is to save model prediction result and calculate accuracy, f1 score eccetera.

CNN2D\_LSTM(CNN3D, CNN3D\_LSTM)

you can see there are three CSV files named as above three different models name. there are the record made by the RunManager, which contains model training process results about on which epoch we can have the best driving model.

Controller

This is a console for training three different pixel based and to end driving models

Runner

this is the actual code to train different driving models, contains algorithm about training data set validation and test data set also calls the data loading file about data set packaging and making patches.