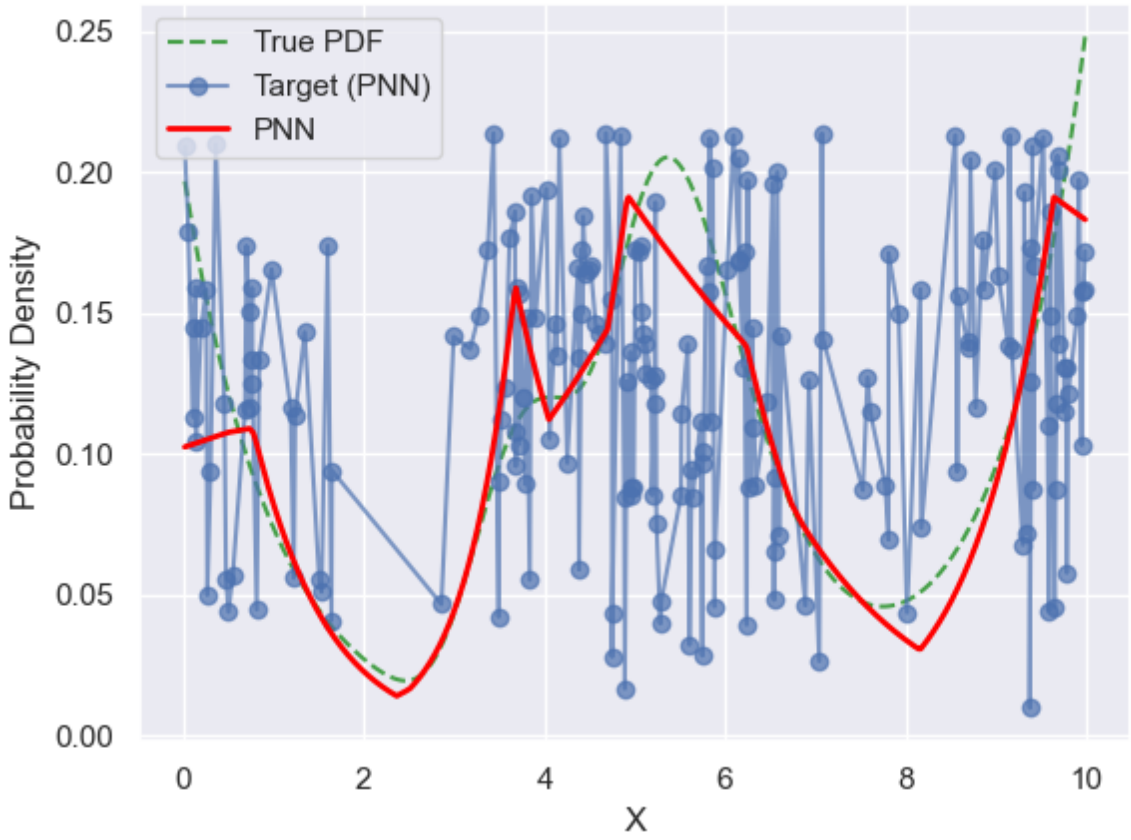
Experiment Details Experiment H0.13146068251965842 S250

> from experiment with PNN on 2024-05-23 16-52

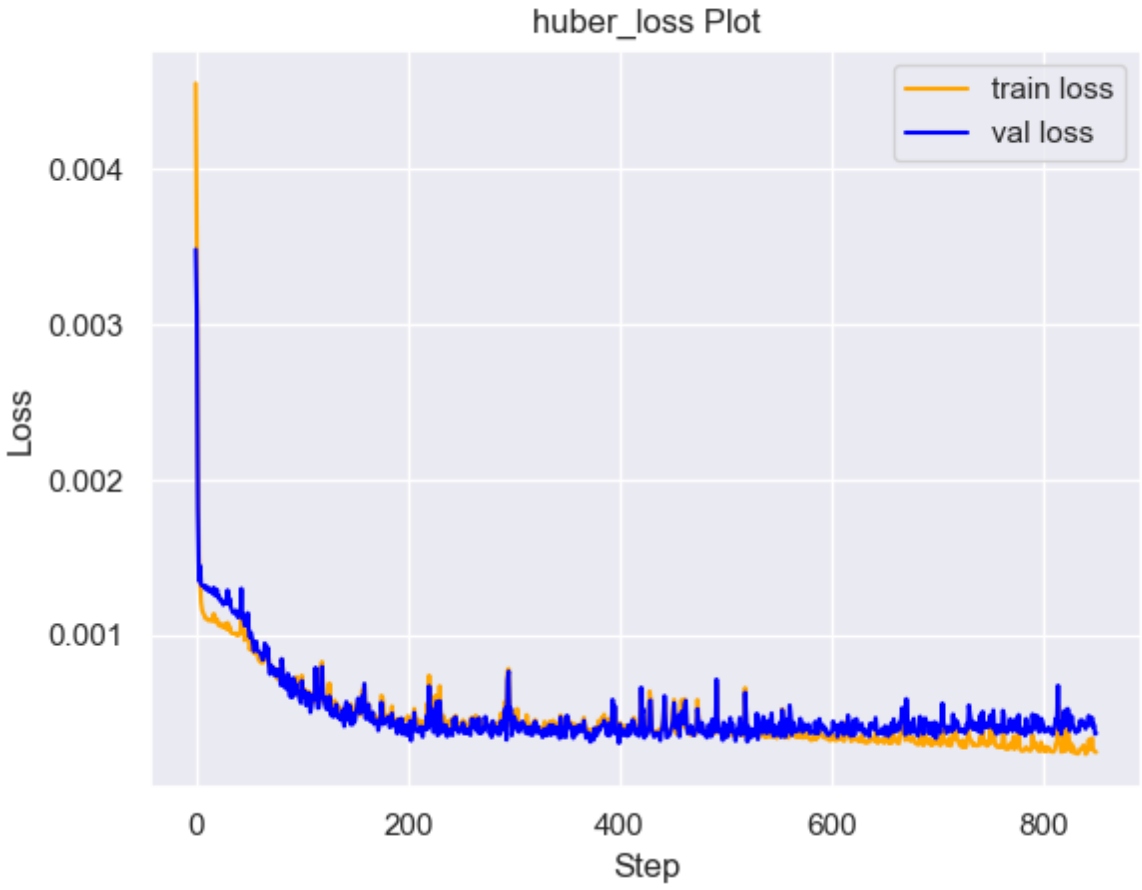
Metrics:

type	r2	mse	max_error	ise	kl	evs
Target	0.4255725547	0.0015022139	0.1509211492	0.0030044278	0.0443836504	0.4335039237
Model	0.8899	0.0003	0.0943	0.0347	0.0134	0.8976

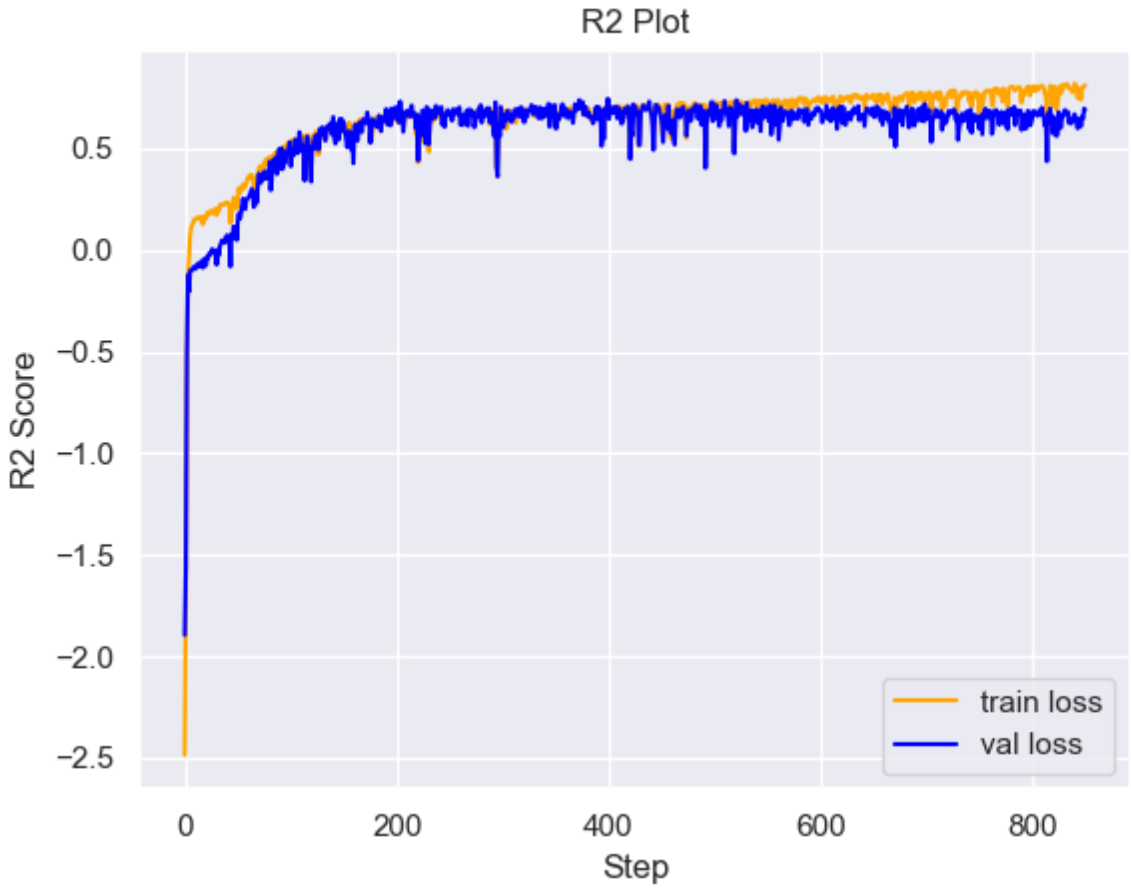
Plot Prediction



Loss Plot



Training Metric Plot



Dataset

▶ PDF set as default **MULTIVARIATE_1254**

Dimension 1

type	rate	weight	
exponential	1	0.2	
logistic	4	0.8	0.25
logistic	5.5	0.7	0.3
exponential	-1	0.25	-10

KEY	VALUE
dimension	1
seed	12
n_samples_training	200
n_samples_test	9973
n_samples_val	50
notes	

Target

- Using PNN Target

▶ All Params used in the model for generate the target for the MLP

KEY	VALUE
h	0.13146068251965842

Model

> using model PNN

Model Params:

▶ All Params used in the model

KEY	VALUE
dropout	0.0
hidden_layer	[(14, ReLU()), (44, ReLU())]
last_activation	lambda

▶ Model Architecture

NeuralNetworkModular((dropout): Dropout(p=0.0, inplace=False) (output_layer): Linear(in_features=44, out_features=1, bias=True) (last_activation): AdaptiveSigmoid((sigmoid): Sigmoid()) (layers): ModuleList((0): Linear(in_features=1, out_features=14, bias=True) (1): Linear(in_features=14, out_features=44, bias=True) (2): AdaptiveSigmoid((sigmoid): Sigmoid())) (activation): ModuleList((0-1): 2 x ReLU()))

Training

▶ All Params used for the training

KEY	VALUE
learning_rate	0.00278
epochs	850
loss_type	huber_loss
optimizer	Adam
batch_size	18