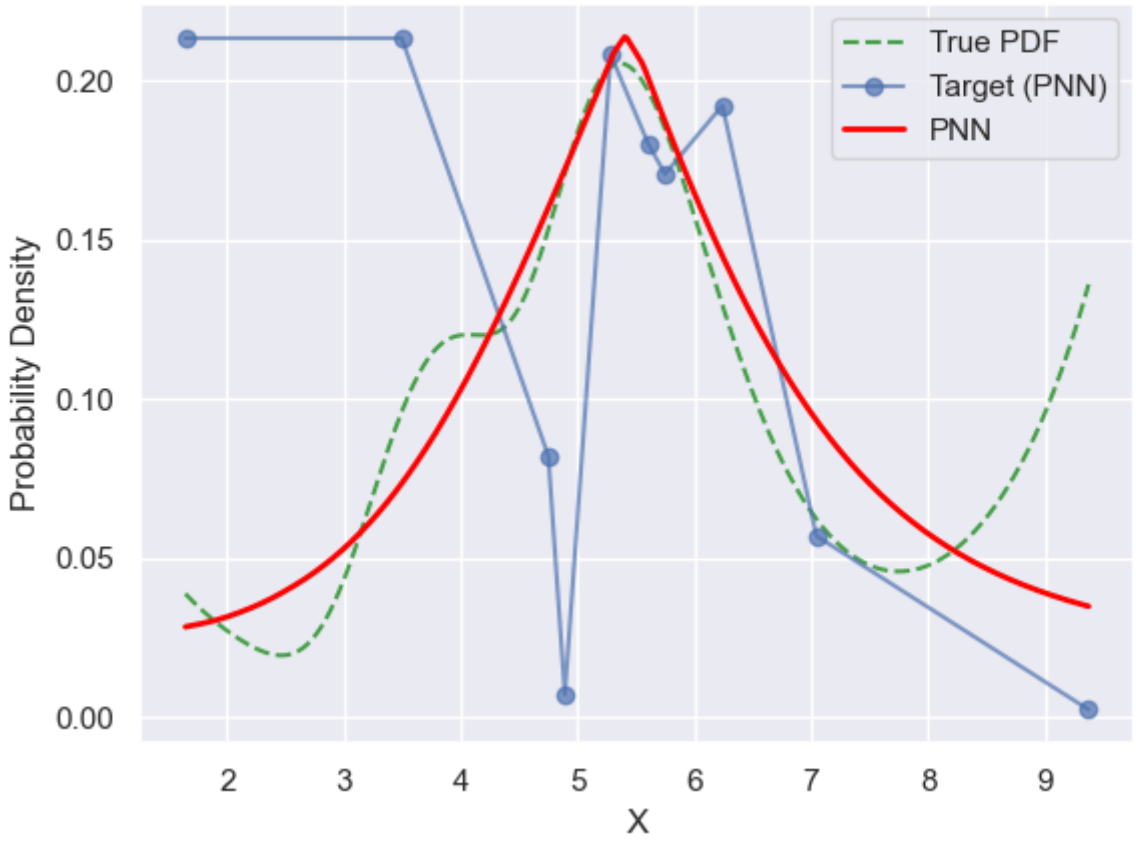
Experiment Details Experiment H0.943425509758125 S60

> from experiment with PNN on 2024-05-23 16-41

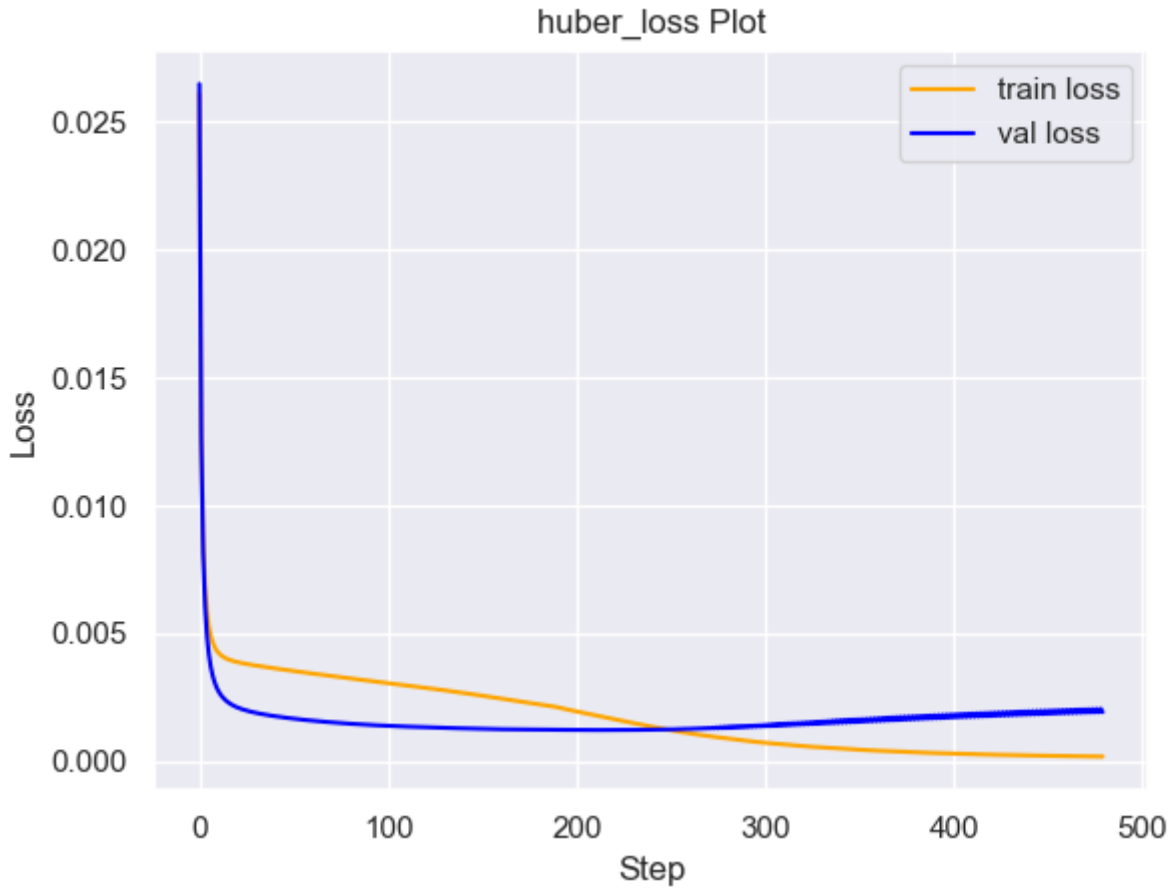
Metrics:

type	r2	mse	max_error	ise	kl	evs
Target	0.1463257595	0.0024488417	0.133441783	0.0002448842	0.3424304474	0.1536732509
Model	0.7837	0.0006	0.101	0.0492	0.0555	0.7838

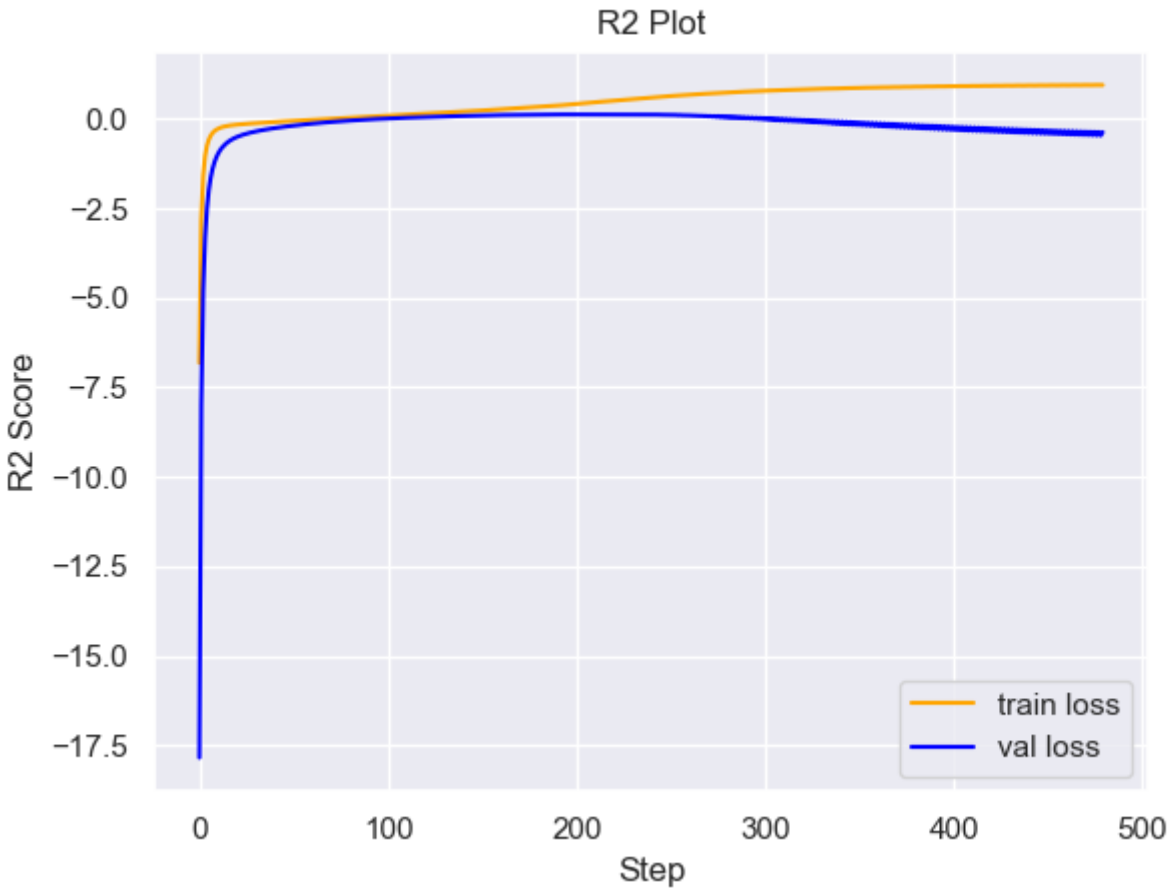
Plot Prediction



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	44
n_samples_training	10
n_samples_test	7735
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	0.943425509758125

Model

> using model PNN

Model Params:

▶ All Params used in the model

KEY	VALUE
dropout	0.0
hidden_layer	[(42, ReLU()), (48, Tanh()), (14, Tanh())]
last_activation	lambda

▶ Model Architecture

NeuralNetworkModular((dropout): Dropout(p=0.0, inplace=False) (output_layer): Linear(in_features=14, out_features=1, bias=True) (last_activation): AdaptiveSigmoid((sigmoid): Sigmoid()) (layers): ModuleList((0): Linear(in_features=1, out_features=42, bias=True) (1): Linear(in_features=42, out_features=48, bias=True) (2): Linear(in_features=48, out_features=14, bias=True) (3): AdaptiveSigmoid((sigmoid): Sigmoid())) (activation): ModuleList((0): ReLU() (1-2): 2 x Tanh()))

Training

▶ All Params used for the training

KEY	VALUE
learning_rate	0.0005046691303549016
epochs	480
loss_type	huber_loss
optimizer	RMSprop
batch_size	60