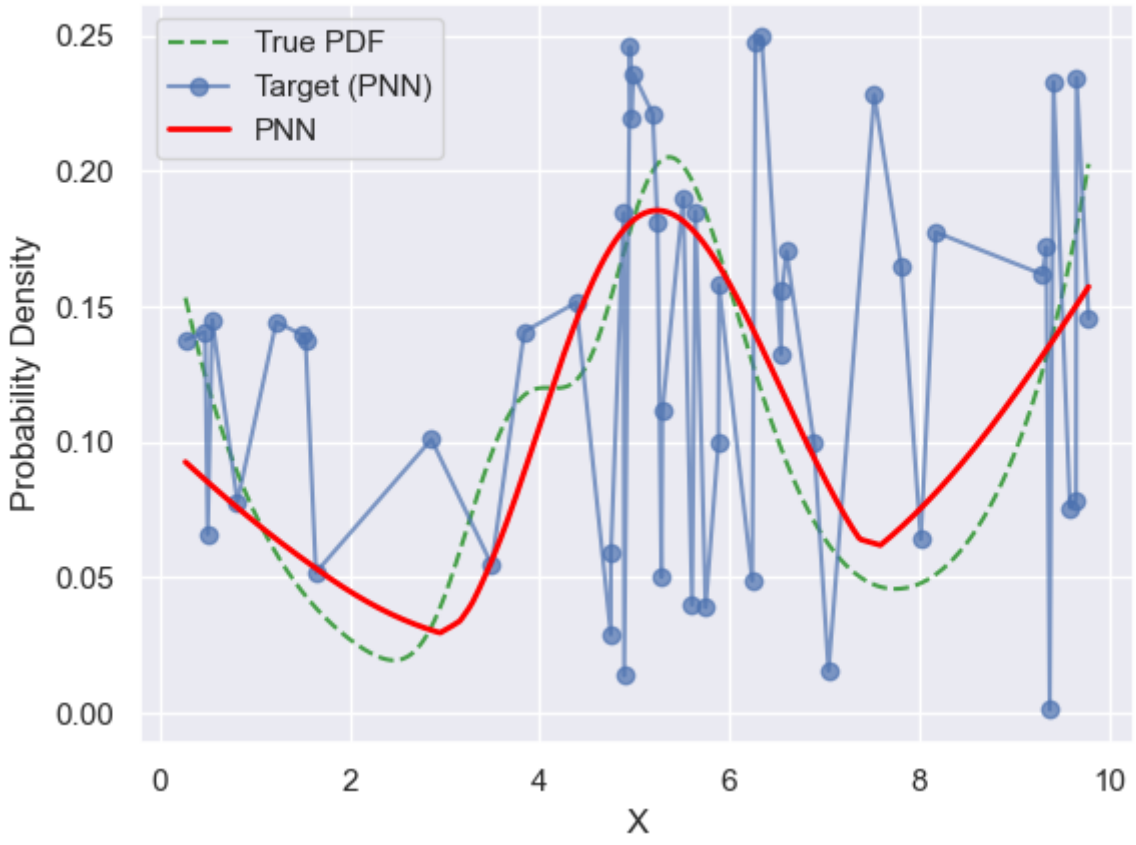
Experiment Details Experiment H0.24853179838613948 S100

> from experiment with PNN on 2024-05-23 16-39

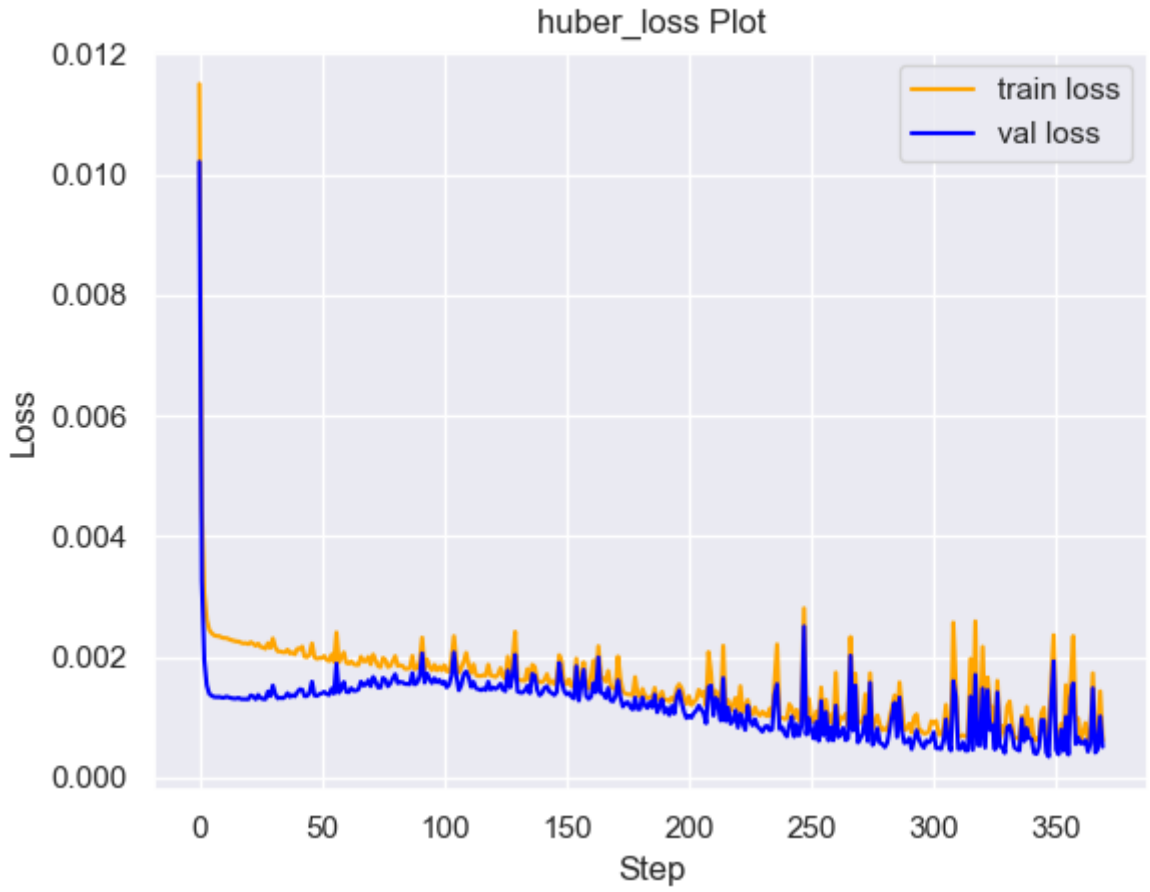
Metrics:

type	r2	mse	max_error	ise	kl	evs
Target	0.4132451522	0.0017011721	0.1017419942	0.000850586	0.0902992766	0.4144137769
Model	0.8297	0.0005	0.0607	0.0454	0.0313	0.8341

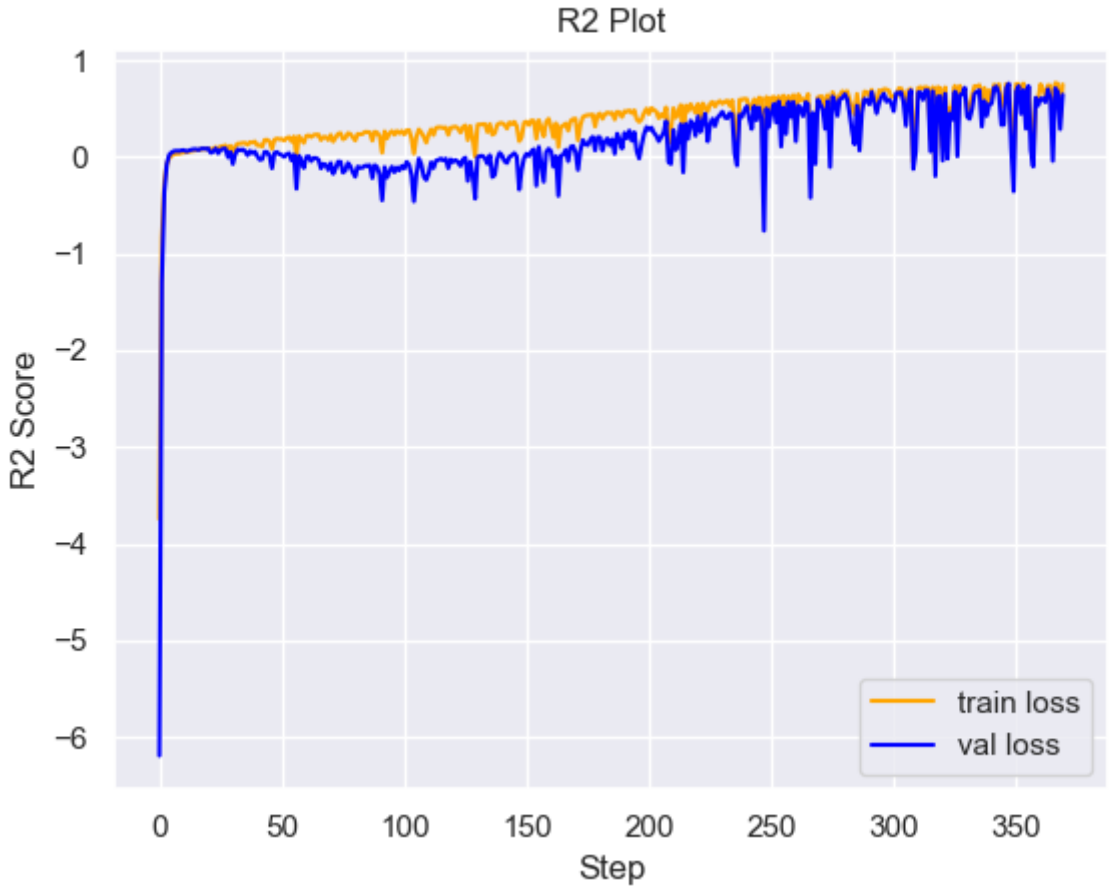
Plot Prediction



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	64
n_samples_training	50
n_samples_test	9520
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	0.24853179838613948

Model

> using model PNN

Model Params:

▶ All Params used in the model

KEY	VALUE
dropout	0.0
hidden_layer	[(52, Tanh()), (6, Tanh()), (58, Tanh()), (38, ReLU())]
last_activation	lambda

▶ Model Architecture

NeuralNetworkModular((dropout): Dropout(p=0.0, inplace=False) (output_layer): Linear(in_features=38, out_features=1, bias=True) (last_activation): AdaptiveSigmoid((sigmoid): Sigmoid()) (layers): ModuleList((0): Linear(in_features=1, out_features=52, bias=True) (1): Linear(in_features=52, out_features=6, bias=True) (2): Linear(in_features=6, out_features=58, bias=True) (3): Linear(in_features=58, out_features=38, bias=True) (4): AdaptiveSigmoid((sigmoid): Sigmoid())) (activation): ModuleList((0-2): 3 x Tanh() (3): ReLU()))

Training

▶ All Params used for the training

KEY	VALUE
learning_rate	0.00043285400651533746
epochs	370
loss_type	huber_loss
optimizer	RMSprop
batch_size	6