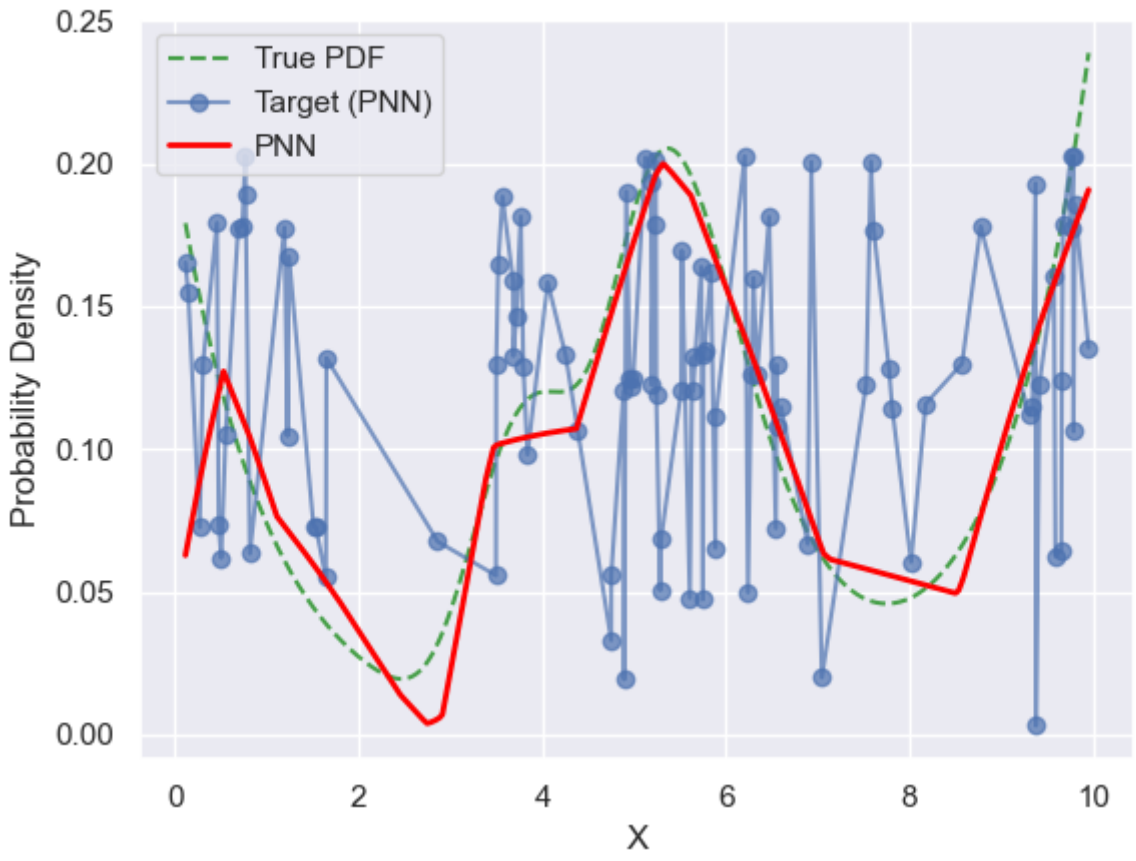
Experiment Details Experiment H0.2631334377419931 S150

> from experiment with PNN on 2024-05-23 16-56

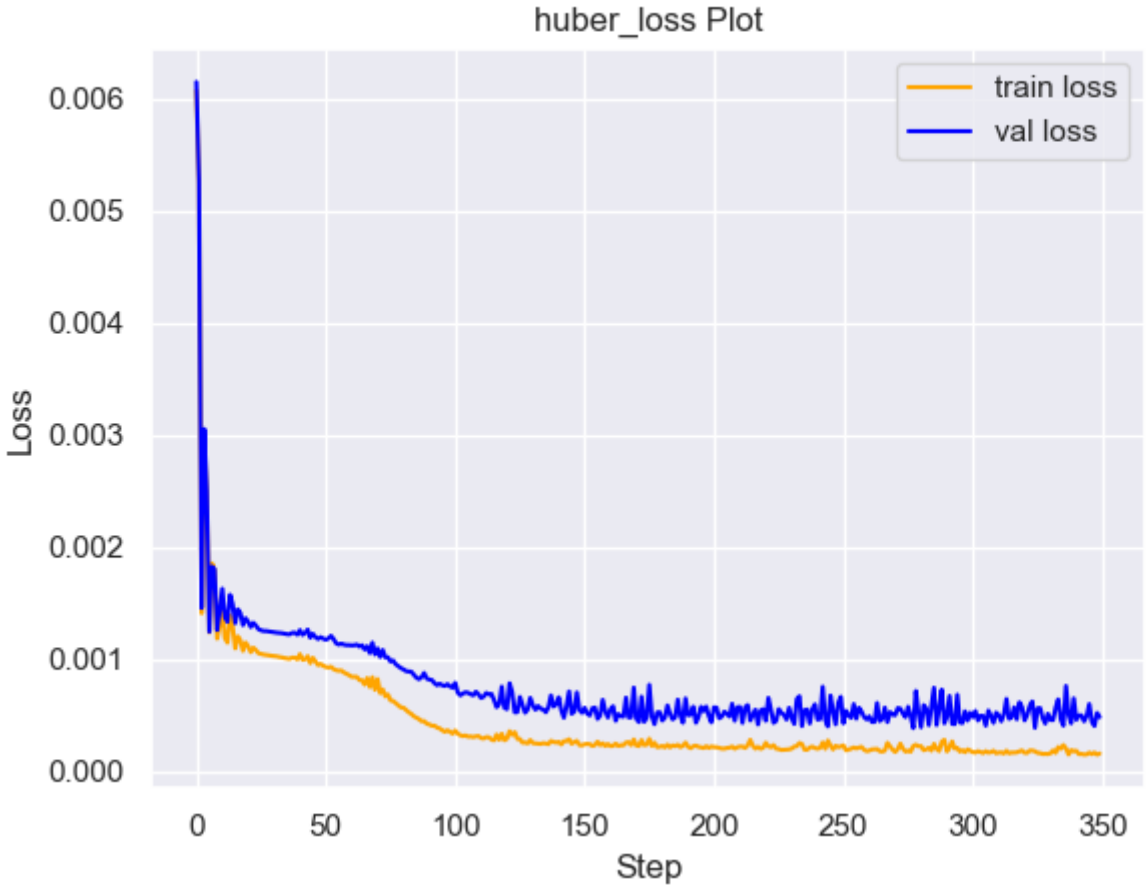
Metrics:

type	r2	mse	max_error	ise	kl	evs
Target	0.6930986739	0.000881479	0.1338841597	0.000881479	0.038386178	0.7045151255
Model	0.9047	0.0003	0.1163	0.0286	0.0228	0.9073

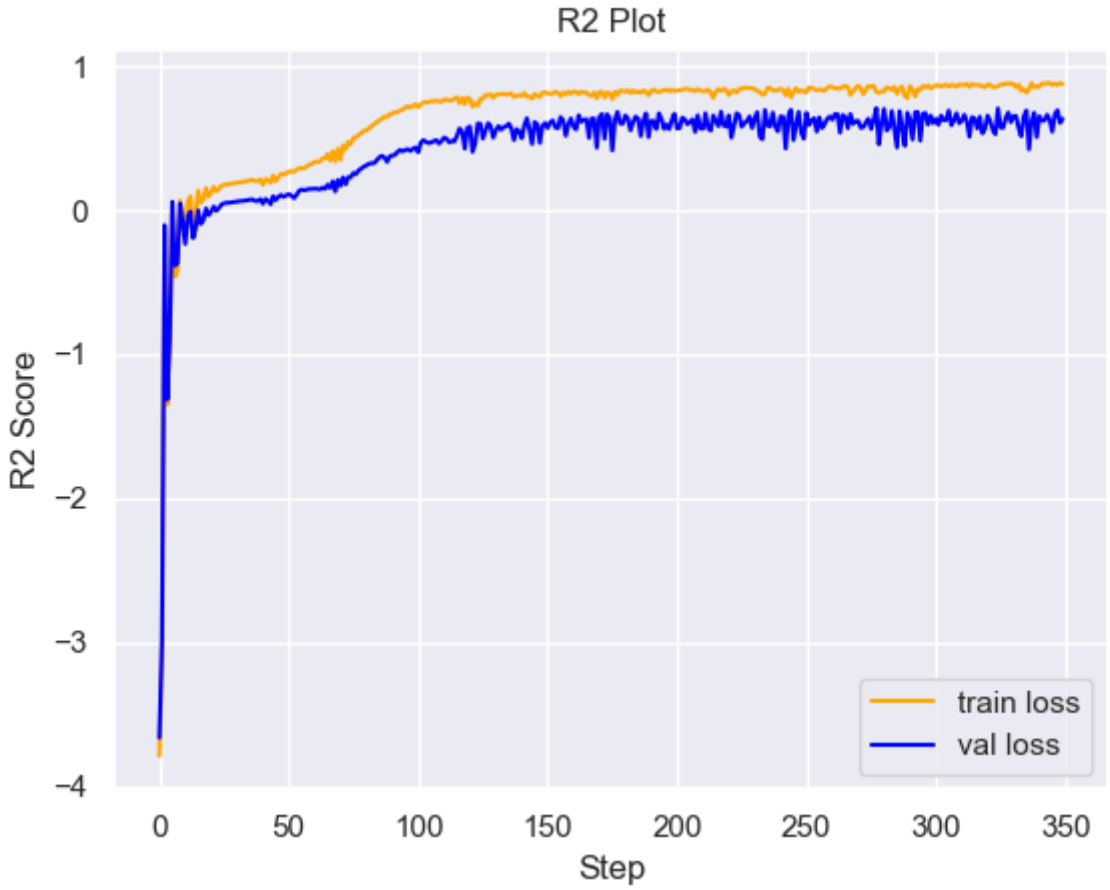
Plot Prediction



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	98
n_samples_training	100
n_samples_test	9840
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	0.2631334377419931

Model

> using model PNN

Model Params:

▶ All Params used in the model

KEY	VALUE
dropout	0.0
hidden_layer	[(34, ReLU()), (30, Tanh()), (22, ReLU()), (52, ReLU()), (24, Sigmoid())]
last_activation	None

▶ Model Architecture

NeuralNetworkModular((dropout): Dropout(p=0.0, inplace=False) (output_layer): Linear(in_features=24, out_features=1, bias=True) (layers): ModuleList((0): Linear(in_features=1, out_features=34, bias=True) (1): Linear(in_features=34, out_features=30, bias=True) (2): Linear(in_features=30, out_features=22, bias=True) (3): Linear(in_features=22, out_features=52, bias=True) (4): Linear(in_features=52, out_features=24, bias=True)) (activation): ModuleList((0): ReLU() (1): Tanh() (2-3): 2 x ReLU() (4): Sigmoid()))

Training

▶ All Params used for the training

KEY	VALUE
learning_rate	0.0024196704886789663
epochs	350
loss_type	huber_loss
optimizer	Adam
batch_size	68