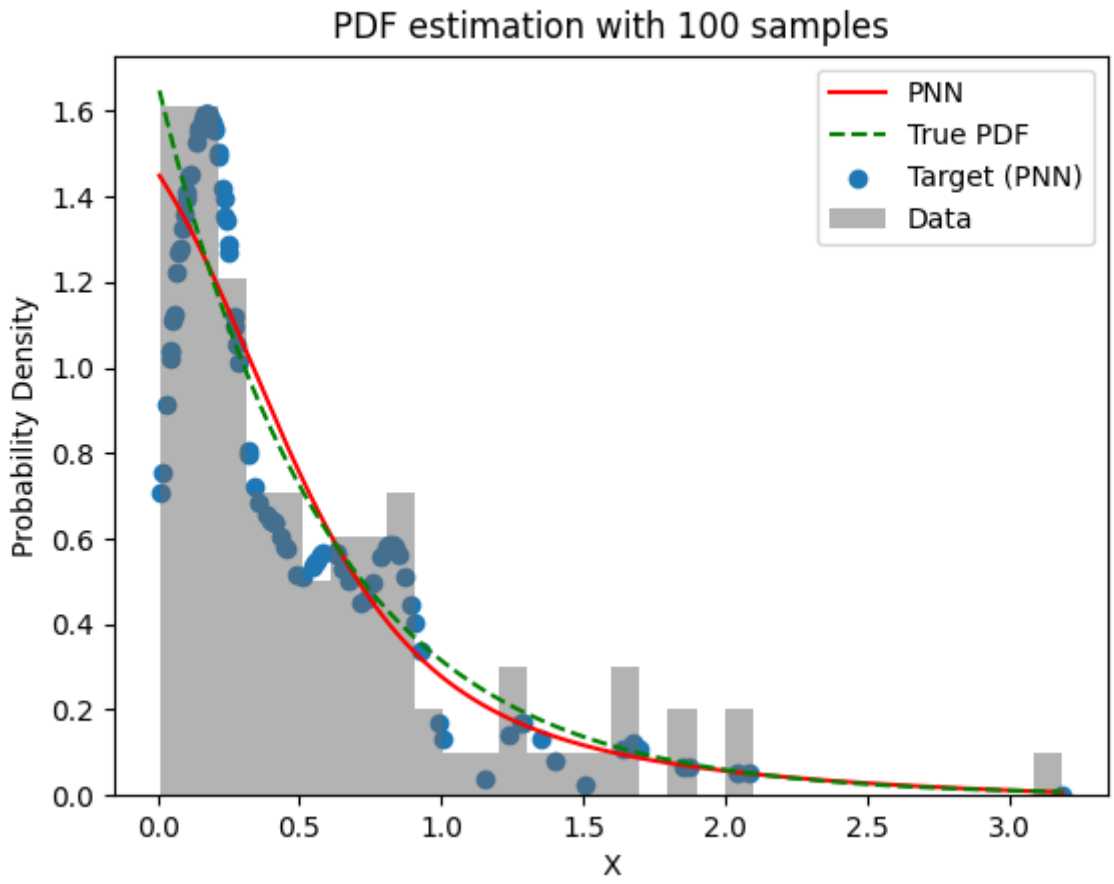
Experiment Details Experiment H0.05856210430161586 S150

> from experiment with PNN on 2024-04-12 10-56

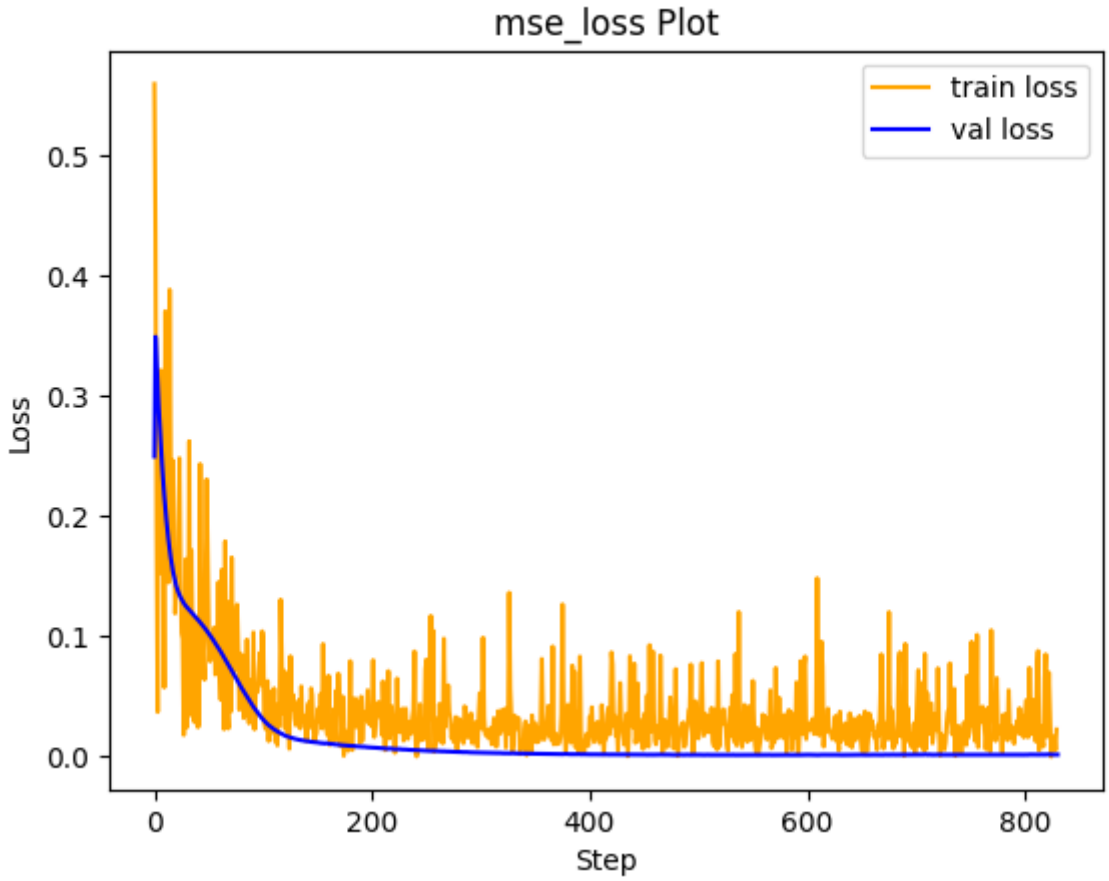
Metrics:

type	r2	mse	max_error	ise	kl	evs
Target	0.7099030259	0.0644095767	0.9240336063	0.0644095767	100000	0.7114500796
Model	0.9935	0.0011	0.199	0.0034	0.0026	0.994

Plot Prediction



Loss Plot



Dataset

▶ PDF set as default **EXPONENTIAL_06**

Dimension 1

type	rate	weight
exponential	0.6	1

KEY	VALUE
dimension	1
seed	61
n_samples_training	100
n_samples_test	319
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	0.05856210430161586

Model

> using model PNN

Model Params:

▶ All Params used in the model

KEY	VALUE
dropout	0.0
hidden_layer	[(18, Tanh()), (4, Tanh()), (20, Tanh())]
last_activation	None

▶ Model Architecture

LitModularNN((neural_netowrk_modular): NeuralNetworkModular((dropout): Dropout(p=0.0, inplace=False) (output_layer): Linear(in_features=20, out_features=1, bias=True) (layers): ModuleList((0): Linear(in_features=1, out_features=18, bias=True) (1): Linear(in_features=18, out_features=4, bias=True) (2): Linear(in_features=4, out_features=20, bias=True)) (activation): ModuleList((0-2): 3 x Tanh())))

Training

▶ All Params used for the training

KEY	VALUE
epochs	830
batch_size	8
loss_type	mse_loss
optimizer	Adam
learning_rate	0.00012