

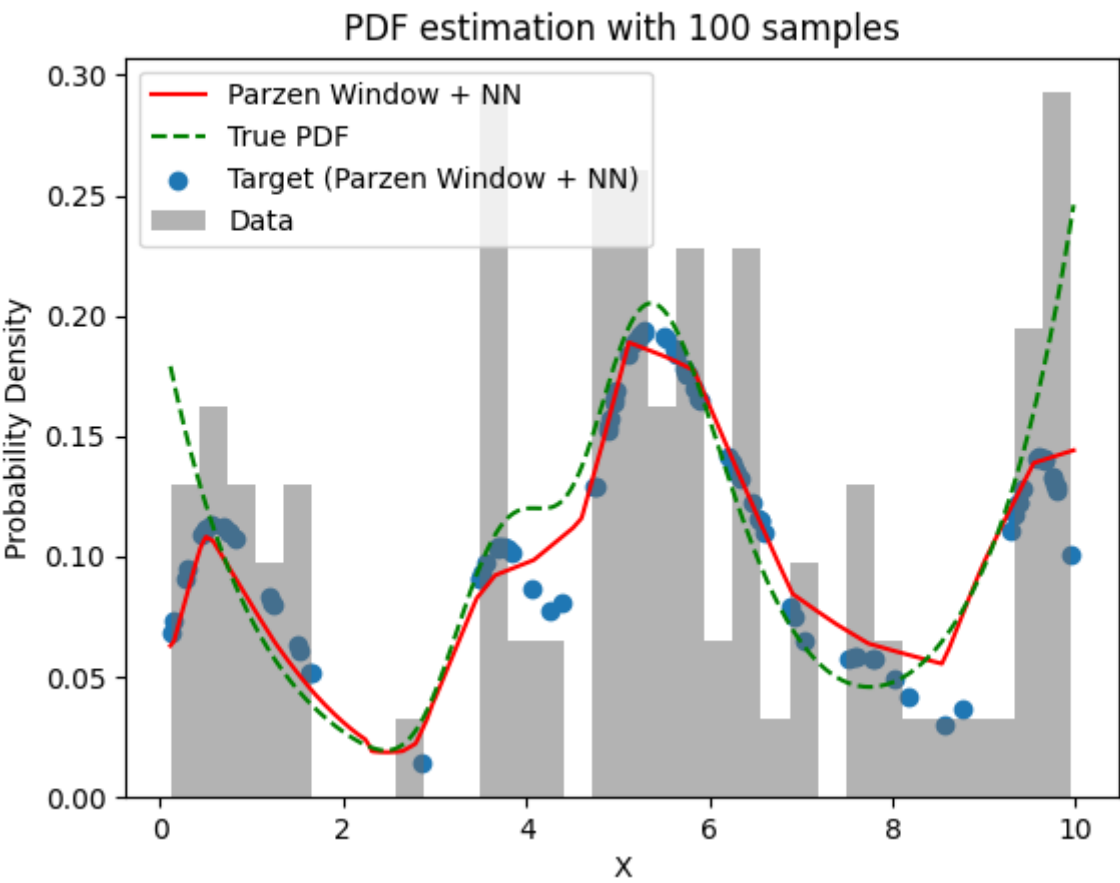
Experiment Details Experiment H0.3795755152130492 S150

from experiment with Parzen Window + NN on 2024-03-28 02-04

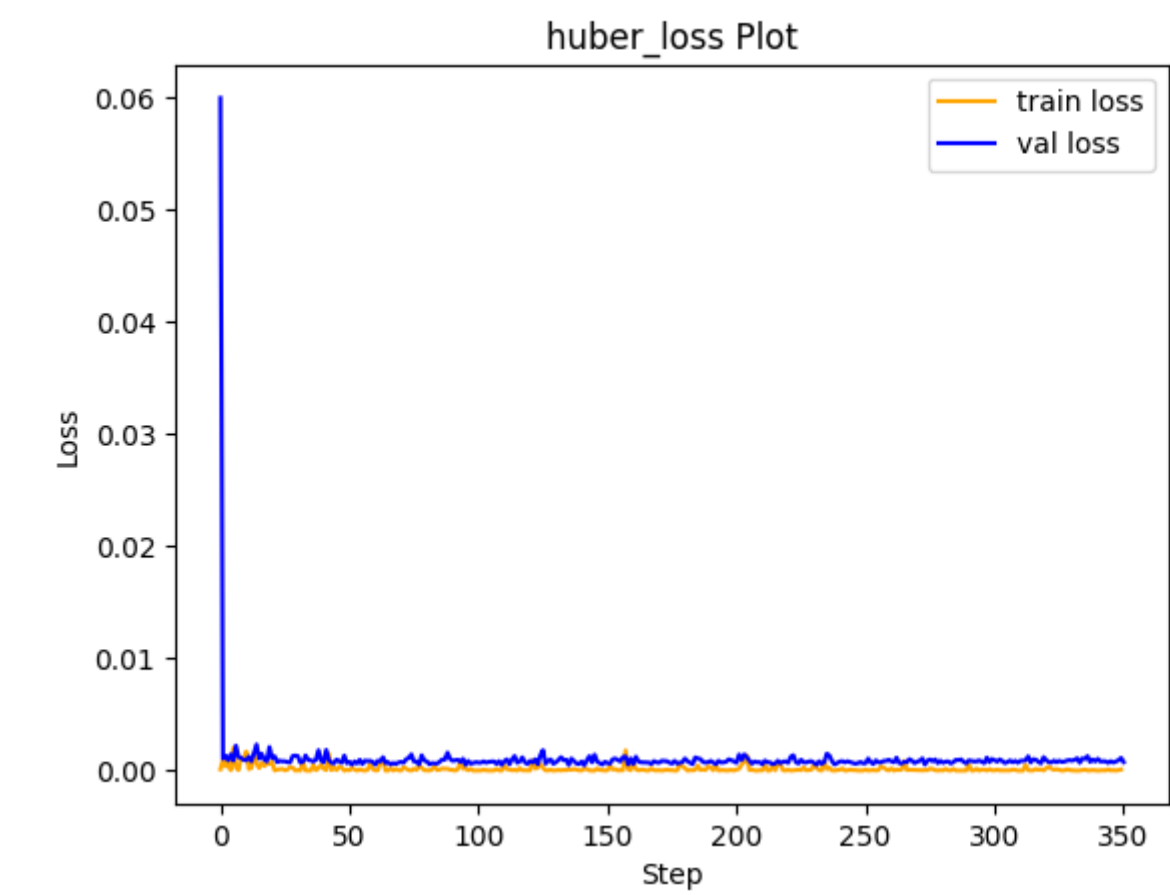
Metrics:

| type | r2 | mse | max_error | ise | kl | evs |
|--------|--------|--------|-----------|--------|--------|--------|
| Target | 0.6515 | 0.001 | 0.1375 | 0.001 | 0.0283 | 0.7103 |
| Model | 0.8309 | 0.0005 | 0.1161 | 0.0052 | 0.0224 | 0.841 |

Plot Prediction



Loss 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 | | 72 | |
| n_samples_training | | 100 | |
| n_samples_test | | 988 | |
| n_samples_val | | 50 | |
| notes | | | |

Target

- Using Parzen Window + NN Target
- All Params used in the model for generate the target for the MLP

| KEY | VALUE |
|-----|--------------------|
| h | 0.3795755152130492 |

Model

using model Parzen Window + NN

Model Params:

- All Params used in the model

| KEY | VALUE |
|-----------------|--|
| dropout | 0.0 |
| hidden_layer | [(56, Tanh()), (60, ReLU()), (28, ReLU()), (58, Tanh())] |
| last_activation | None |

- Model Architecture

LitModularNN((neural_netowrk_modular): NeuralNetworkModular((dropout): Dropout(p=0.0, inplace=False) (output_layer): Linear(in_features=58, out_features=1, bias=True) (layers): ModuleList((0): Linear(in_features=1, out_features=56, bias=True) (1): Linear(in_features=56, out_features=60, bias=True) (2): Linear(in_features=60, out_features=28, bias=True) (3): Linear(in_features=28, out_features=58, bias=True)) (activation): ModuleList((0): Tanh() (1-2): 2 x ReLU() (3): Tanh())))

Training

- All Params used for the training

| KEY | VALUE |
|---------------|-------------|
| epochs | 350 |
| batch_size | 2 |
| loss_type | huber_loss |
| optimizer | Adam |
| learning_rate | 0.000438031 |