

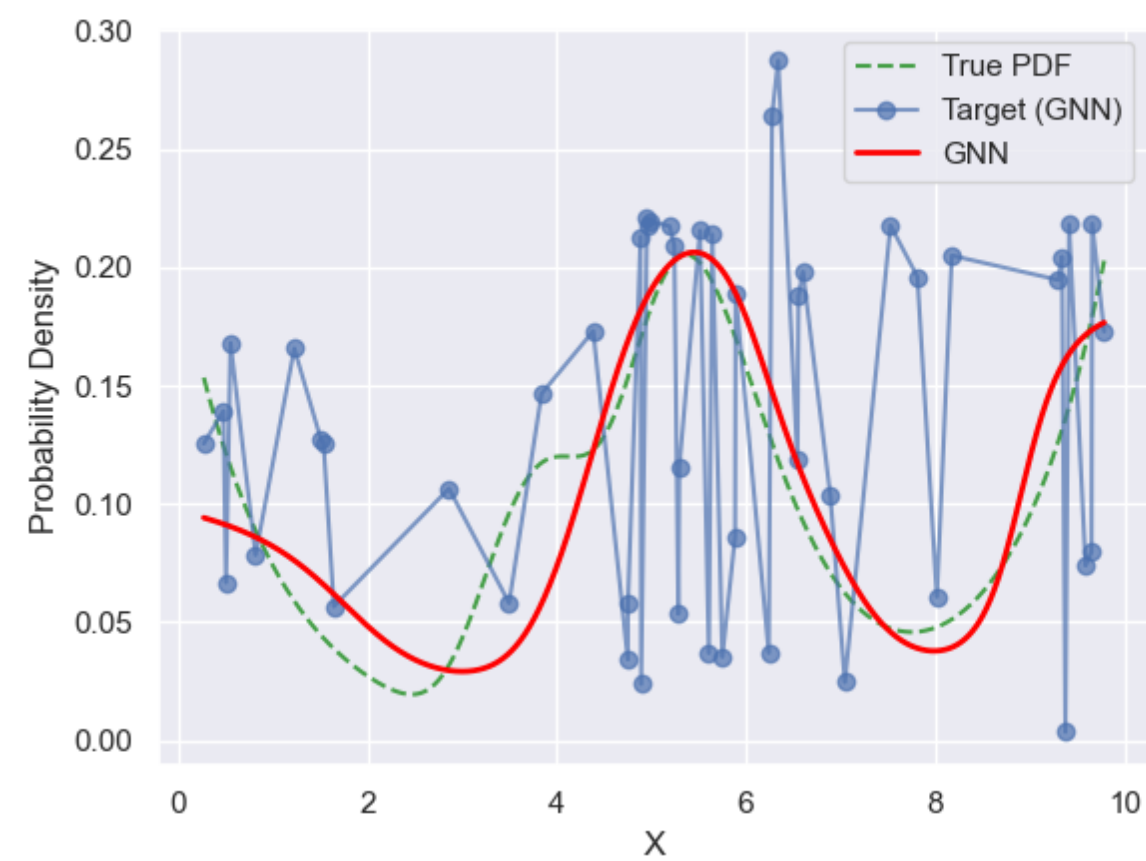
Experiment Details Experiment C4 S100

from experiment with GNN on 2024-05-23 16-15

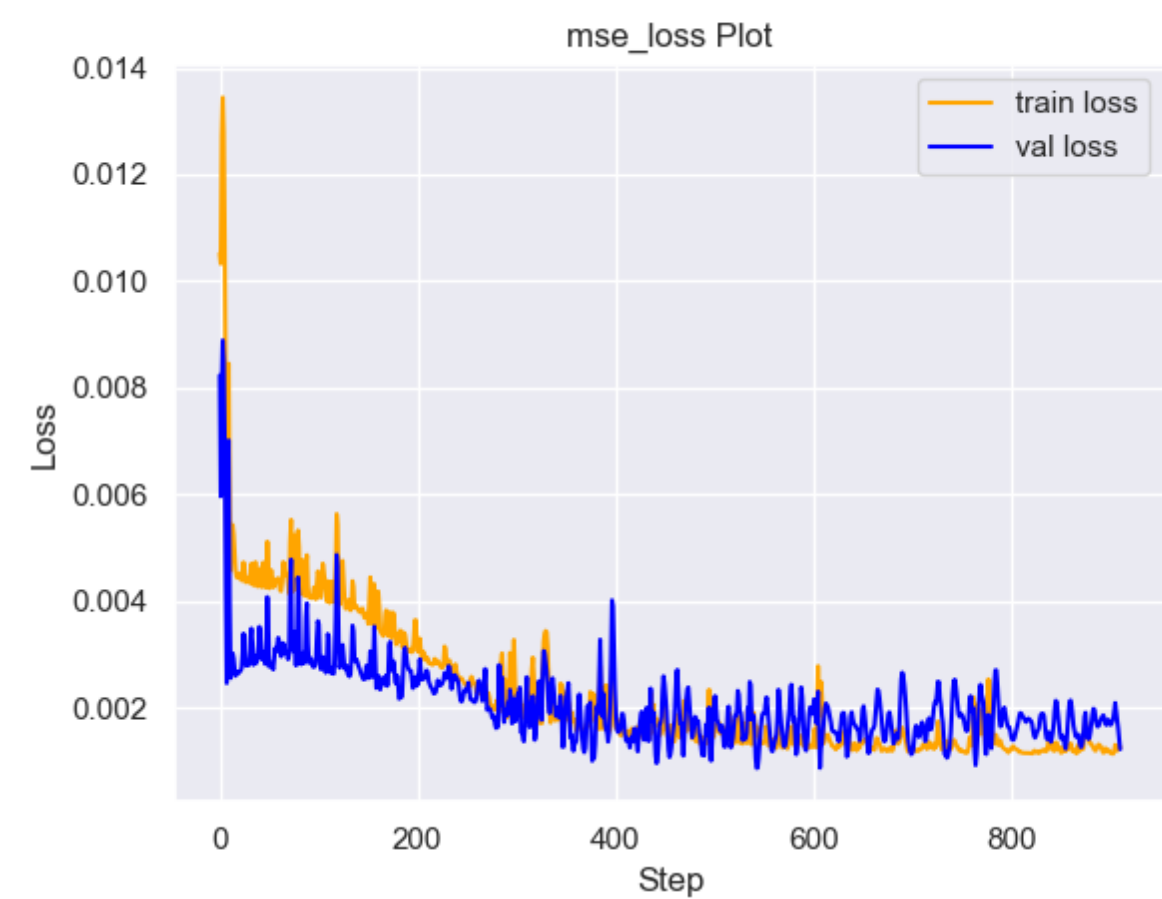
Metrics:

type	r2	mse	max_error	ise	kl	evs
Target	0.2295806764	0.0022336685	0.1657670332	0.0011168343	0.0872765541	0.2563999183
Model	0.8035	0.0006	0.0642	0.0524	0.0427	0.8035

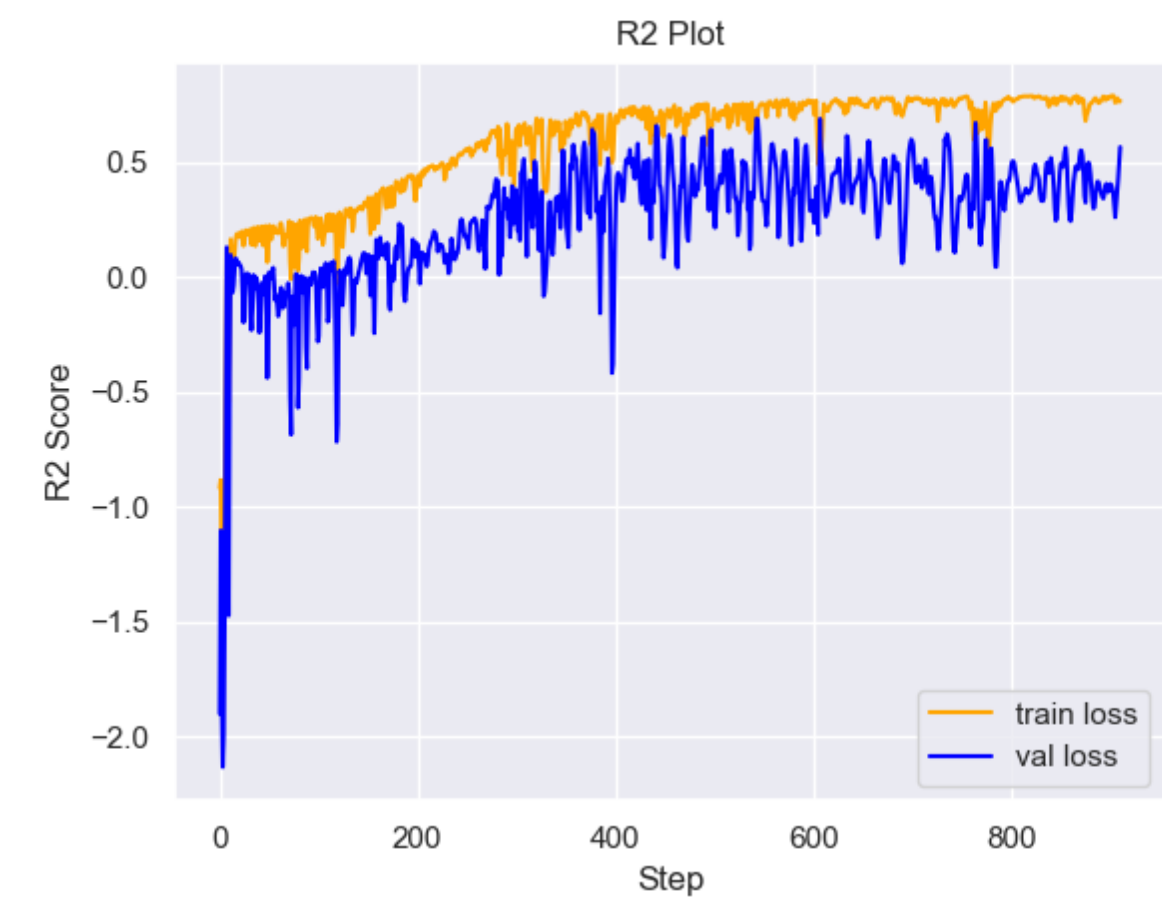
Plot Prediction



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		47	
n_samples_training		50	
n_samples_test		9520	
n_samples_val		50	
notes			

Target

- Using GNN Target
- All Params used in the model for generate the target for the MLP

KEY	VALUE
n_init	47
max_iter	70
n_components	4
random_state	14
init_params	k-means++

Model

using model GNN

Model Params:

► All Params used in the model

KEY	VALUE
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KEY	VALUE
dropout	0.0
hidden_layer	[(24, Tanh()), (26, Tanh()), (48, Tanh())]
last_activation	lambda

► Model Architecture

NeuralNetworkModular((dropout): Dropout(p=0.0, inplace=False) (output_layer): Linear(in_features=48, out_features=1, bias=True) (last_activation): AdaptiveSigmoid((sigmoid): Sigmoid()) (layers): ModuleList((0): Linear(in_features=1, out_features=24, bias=True) (1): Linear(in_features=24, out_features=26, bias=True) (2): Linear(in_features=26, out_features=48, bias=True) (3): AdaptiveSigmoid((sigmoid): Sigmoid())) (activation): ModuleList((0-2): 3 x Tanh()))

Training

► All Params used for the training

KEY	VALUE
learning_rate	0.00537
epochs	910
loss_type	mse_loss
optimizer	Adam
batch_size	44