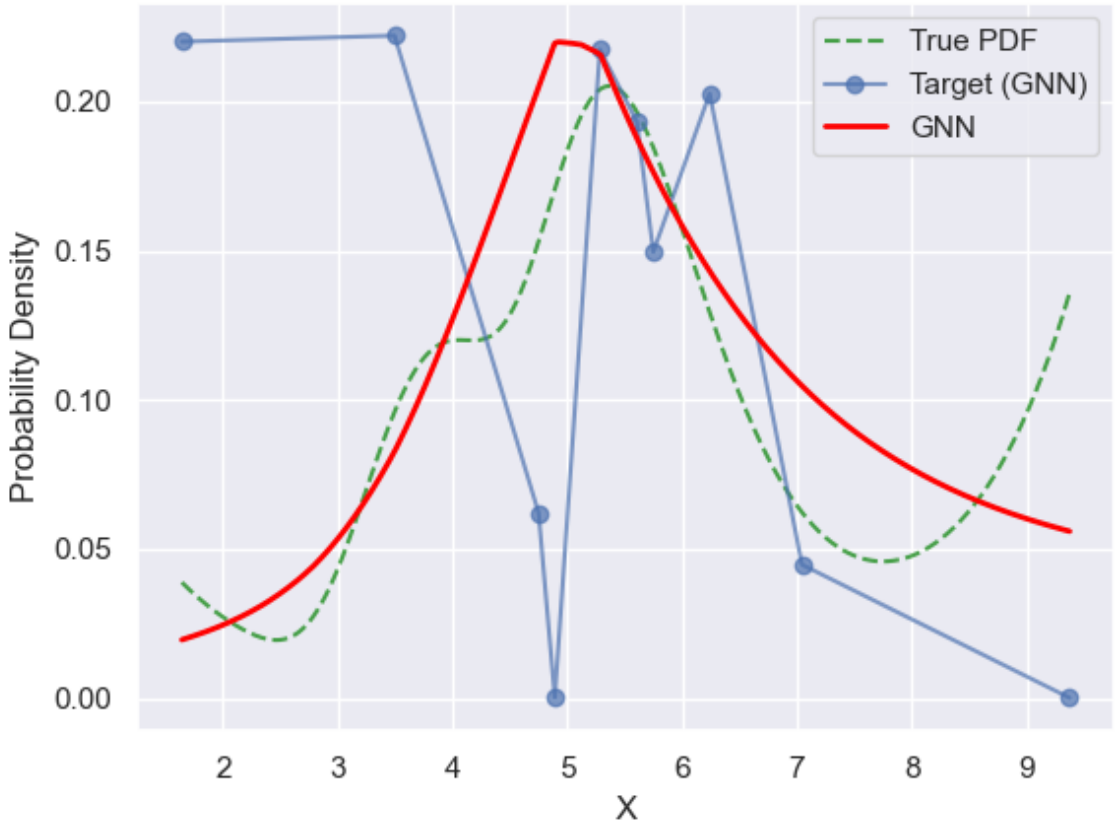
Experiment Details Experiment C2 S60

> from experiment with GNN on 2024-05-23 16-09

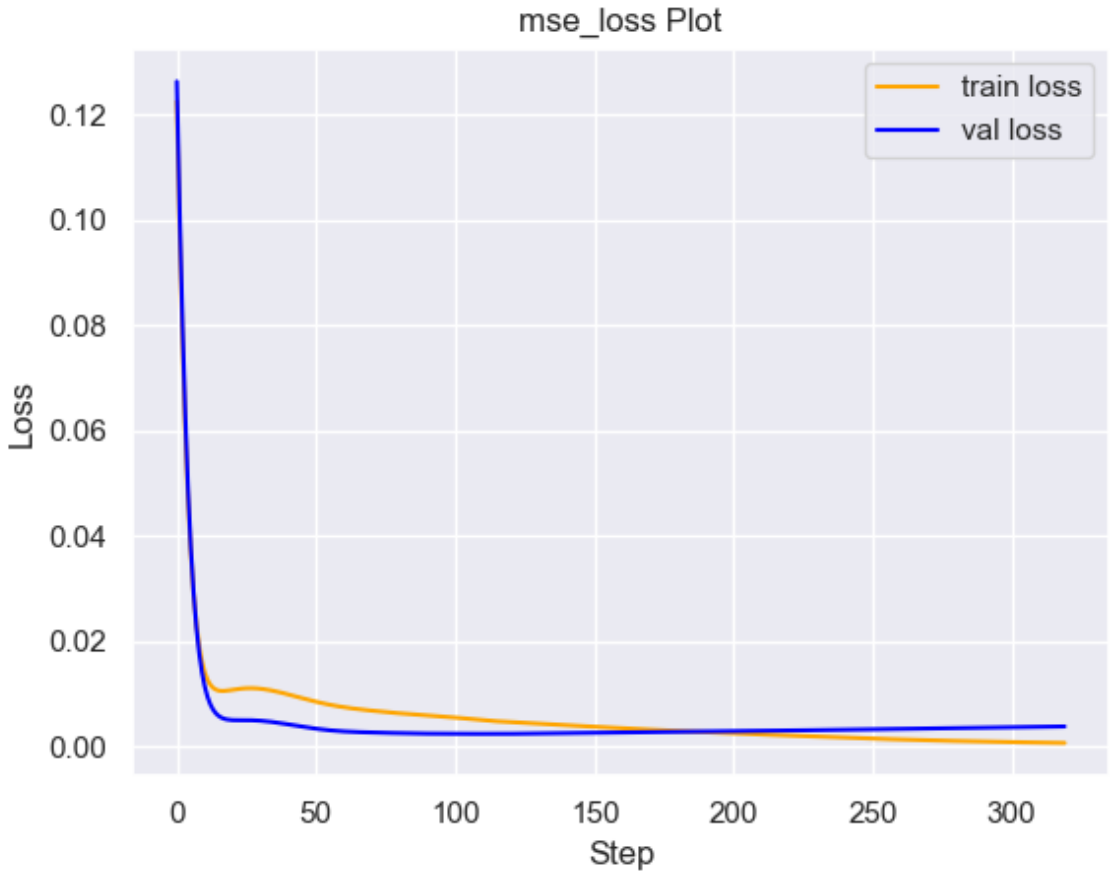
Metrics:

type	r2	mse	max_error	ise	kl	evs
Target	-0.0585361694	0.0030365066	0.1357844627	0.0003036507	0.7449445841	-0.0464445366
Model	0.725	0.0008	0.08	0.0625	0.0406	0.7729

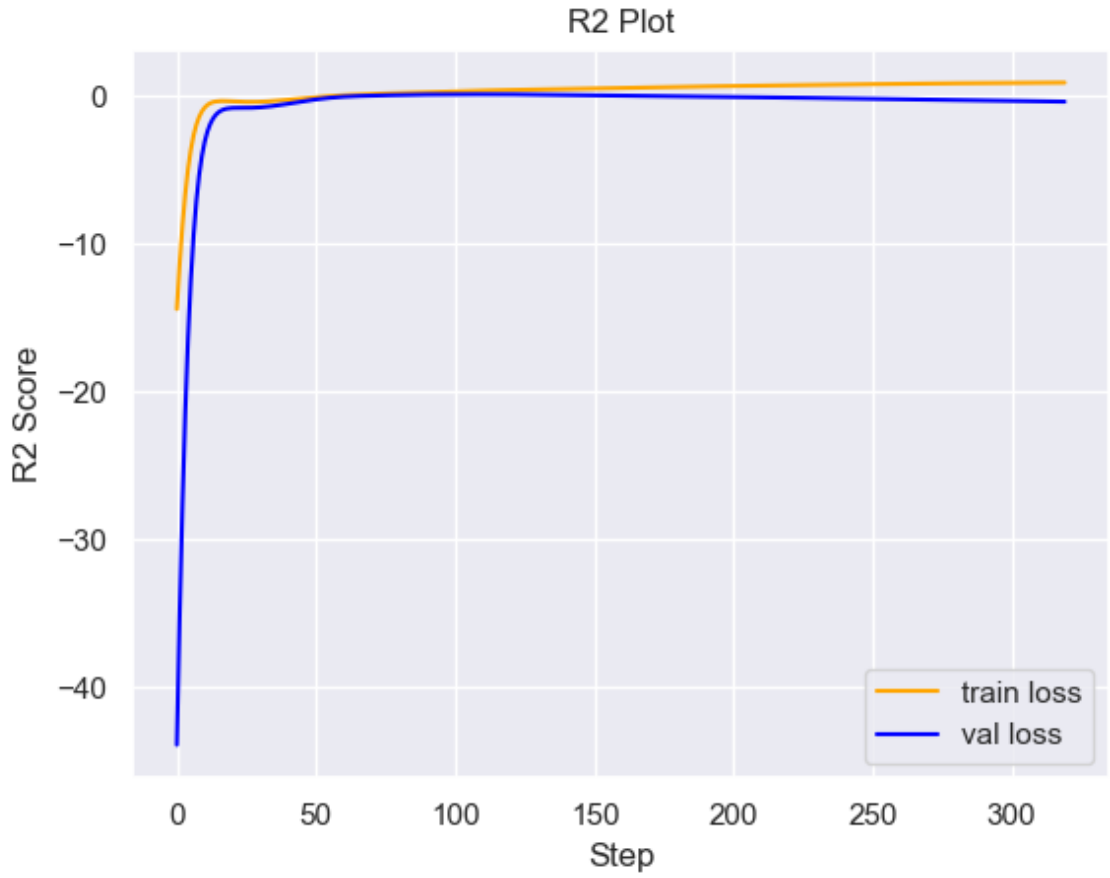
Plot Prediction



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	42
n_samples_training	10
n_samples_test	7735
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_components	2
n_init	70
max_iter	10
init_params	k-means++
random_state	37

Model

> using model GNN

Model Params:

▶ All Params used in the model

KEY	VALUE

KEY	VALUE
dropout	0.0
hidden_layer	[(54, ReLU()), (30, Tanh())]
last_activation	lambda

▶ Model Architecture

NeuralNetworkModular((dropout): Dropout(p=0.0, inplace=False) (output_layer): Linear(in_features=30, out_features=1, bias=True) (last_activation): AdaptiveSigmoid((sigmoid): Sigmoid()) (layers): ModuleList((0): Linear(in_features=1, out_features=54, bias=True) (1): Linear(in_features=54, out_features=30, bias=True) (2): AdaptiveSigmoid((sigmoid): Sigmoid())) (activation): ModuleList((0): ReLU() (1): Tanh()))

Training

▶ All Params used for the training

KEY	VALUE
epochs	320
batch_size	52
loss_type	mse_loss
optimizer	Adam
learning_rate	0.00172