

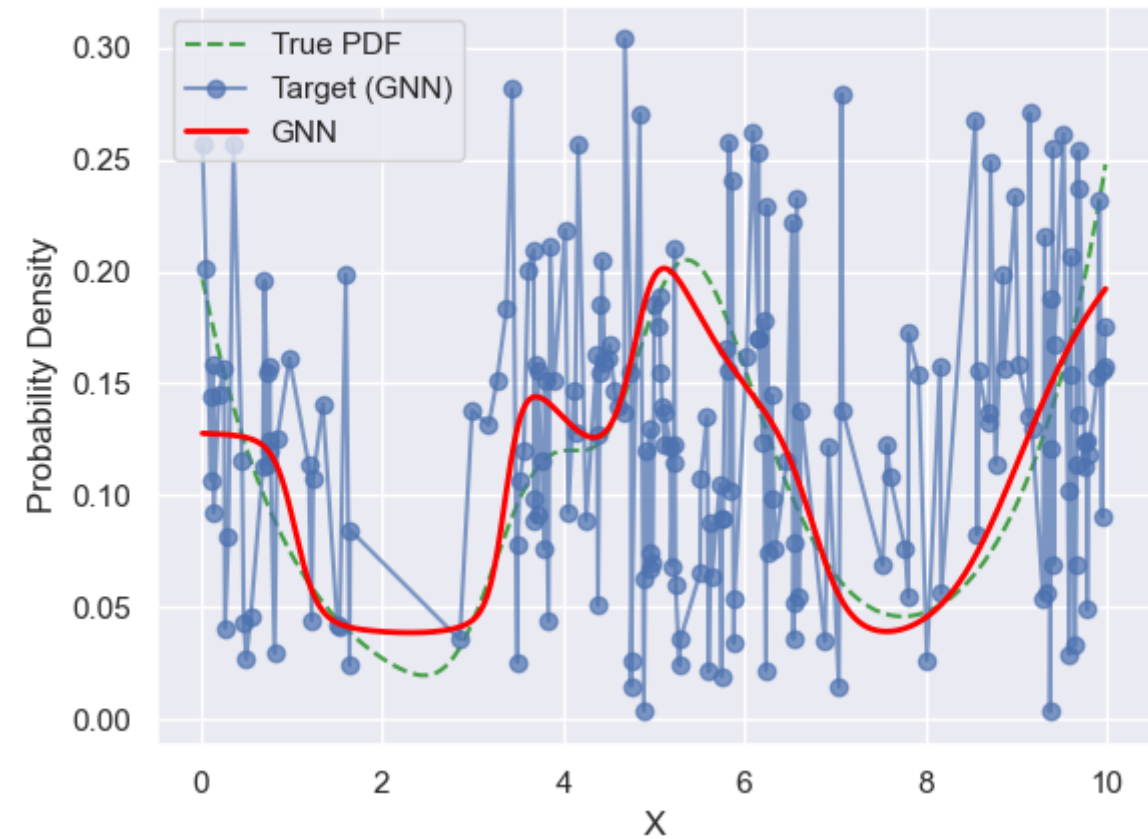
# Experiment Details Experiment C11 S250

from experiment with GNN on 2024-05-23 16-31

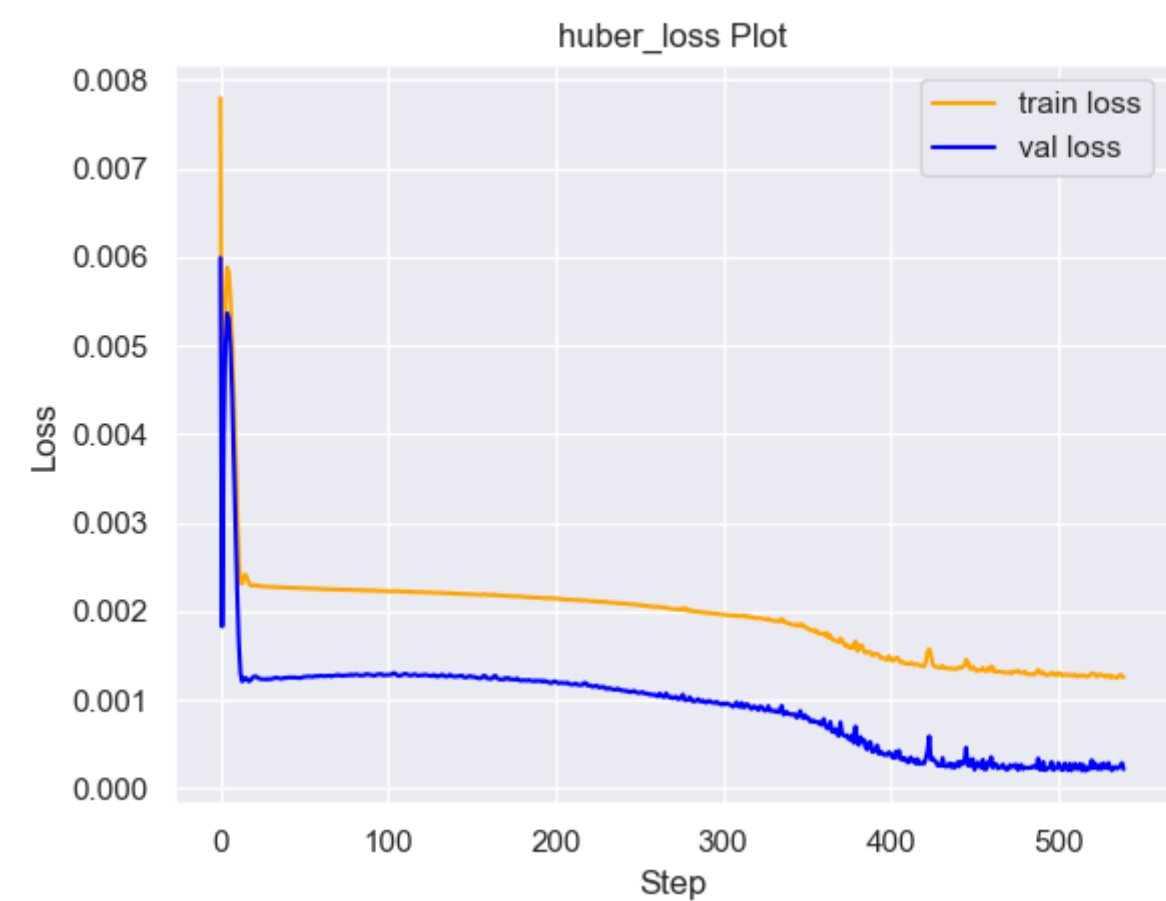
## Metrics:

type	r2	mse	max_error	ise	kl	evs
Target	-0.27649104	0.0033382155	0.2110728598	0.006676431	0.1144209164	-0.2729617878
Model	0.9144	0.0003	0.069	0.027	0.0129	0.9176

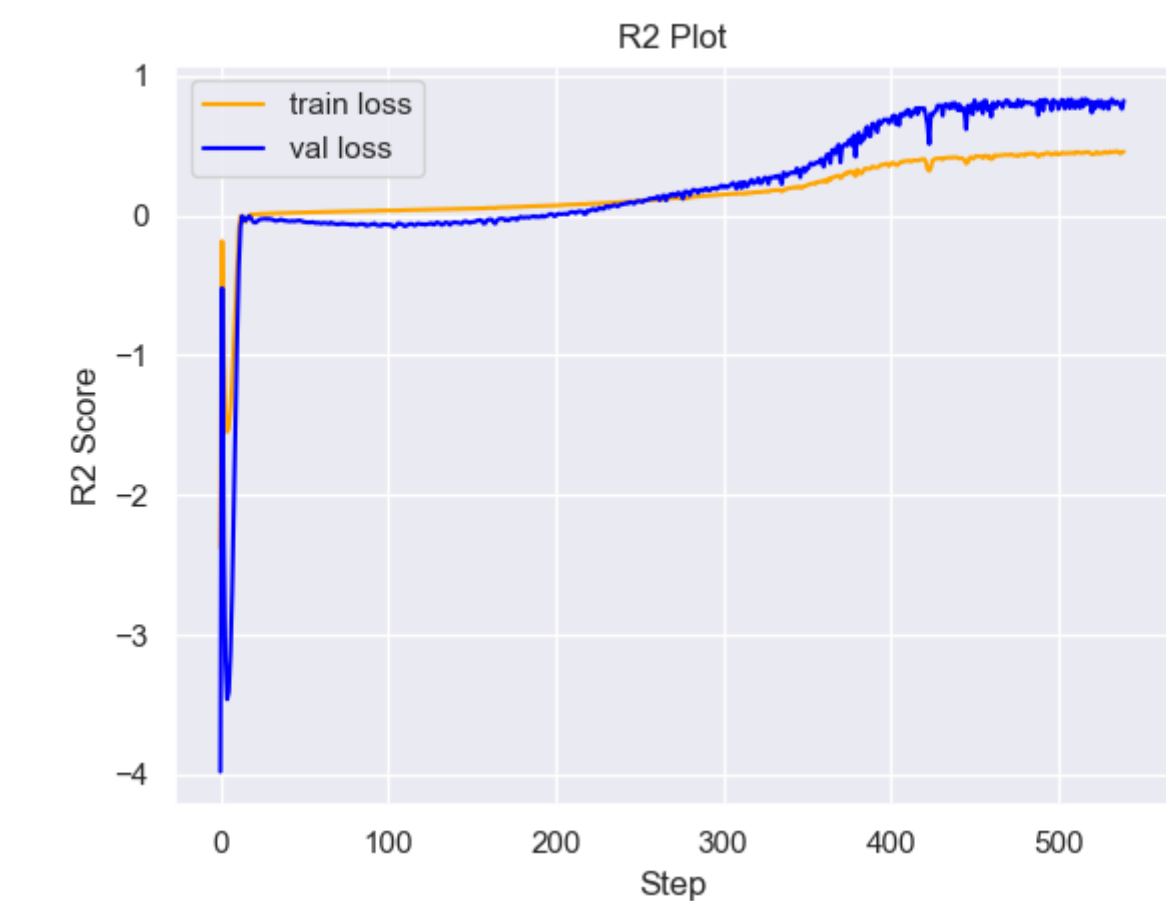
## Plot Prediction



## 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		31	
n_samples_training		200	
n_samples_test		9973	
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	20
max_iter	100
n_components	11
random_state	45
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	[(28, Tanh()), (20, Sigmoid()), (34, Sigmoid()), (26, Tanh())]
last_activation	lambda

► Model Architecture

NeuralNetworkModular( (dropout): Dropout(p=0.0, inplace=False) (output\_layer): Linear(in\_features=26, out\_features=1, bias=True) (last\_activation): AdaptiveSigmoid( (sigmoid): Sigmoid() ) (layers): ModuleList( (0): Linear(in\_features=1, out\_features=28, bias=True) (1): Linear(in\_features=28, out\_features=20, bias=True) (2): Linear(in\_features=20, out\_features=34, bias=True) (3): Linear(in\_features=34, out\_features=26, bias=True) (4): AdaptiveSigmoid( (sigmoid): Sigmoid() ) ) (activation): ModuleList( (0): Tanh() (1-2): 2 x Sigmoid() (3): Tanh() ) )

Training

► All Params used for the training

KEY	VALUE
learning_rate	0.003454947958915411
epochs	540
loss_type	huber_loss
optimizer	Adam
batch_size	52