

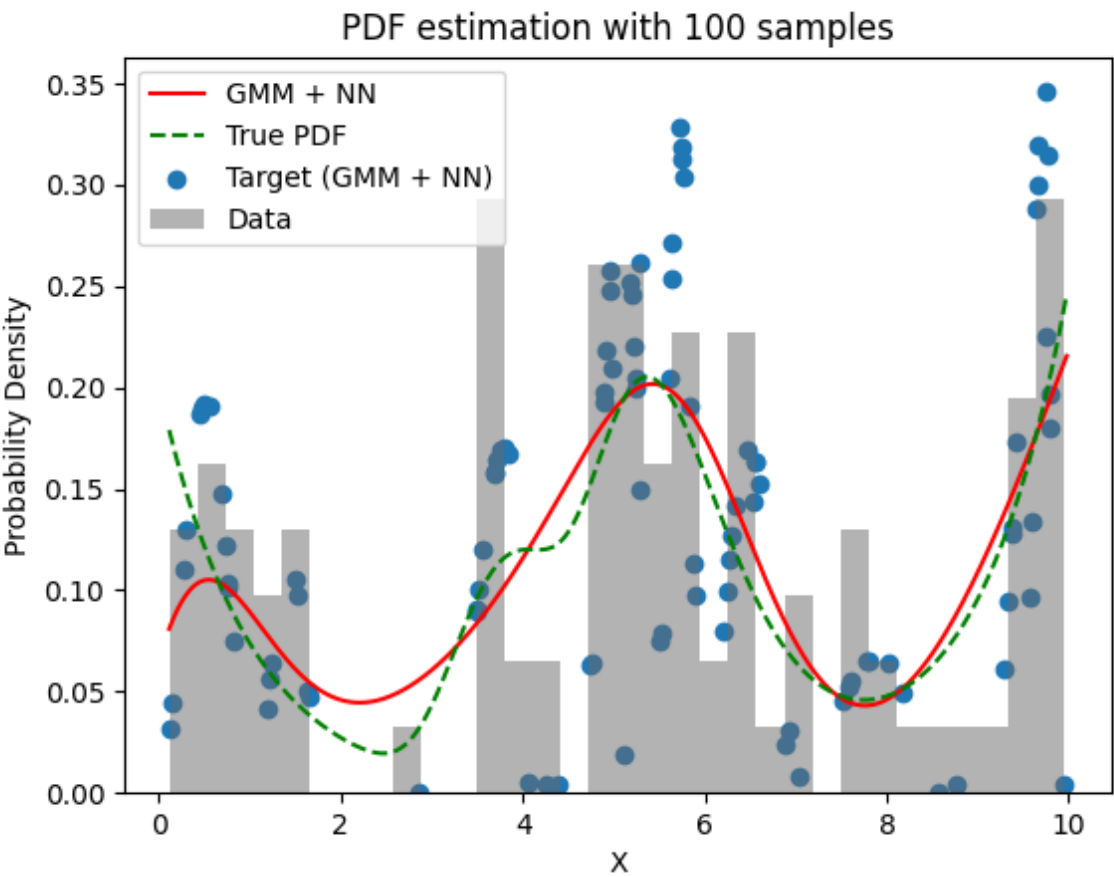
# Experiment Details Experiment C10 S150

from experiment with GMM + NN on 2024-03-28 17-35

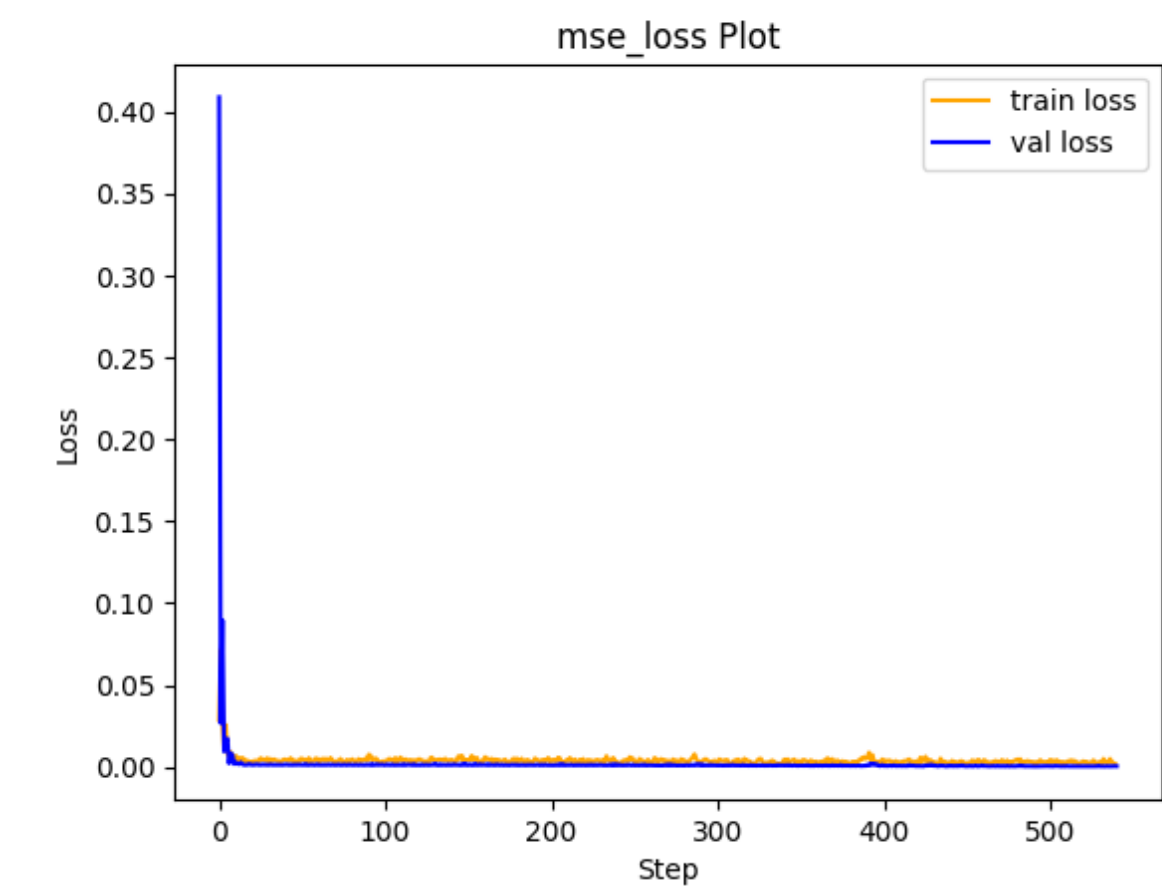
## Metrics:

type	r2	mse	max_error	ise	kl	evs
Target	-0.7765733449	0.0051026565	0.234289343	0.0051026565	0.2847815132	-0.7624816532
Model	0.8908	0.0003	0.0981	0.0034	0.0193	0.904

## 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		10009	
n_samples_training		100	
n_samples_test		988	
n_samples_val		50	

notes

## Target

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

KEY	VALUE
n_components	10
n_init	100
max_iter	80
init_params	k-means++
random_state	10009

## Model

using model GMM + NN

**Model Params:**

- All Params used in the model

KEY	VALUE
dropout	0.0
hidden_layer	[(64, Tanh()), (56, Tanh()), (38, Tanh())]
last_activation	None

- Model Architecture

LitModularNN( (neural\_netowrk\_modular): NeuralNetworkModular( (dropout): Dropout(p=0.0, inplace=False) (output\_layer): Linear(in\_features=38, out\_features=1, bias=True) (layers): ModuleList( (0): Linear(in\_features=1, out\_features=64, bias=True) (1): Linear(in\_features=64, out\_features=56, bias=True) (2): Linear(in\_features=56, out\_features=38, bias=True) ) (activation): ModuleList( (0-2): 3 x Tanh() ) ) )

## Training

- All Params used for the training

KEY	VALUE
epochs	540
batch_size	26
loss_type	mse_loss
optimizer	Adam
learning_rate	0.000874345