Python 3.7.4 (default, Aug 9 2019, 18:34:13) [MSC v.1915 64 bit (AMD64)] Type "copyright", "credits" or "license" for more information.

IPython 7.10.1 -- An enhanced Interactive Python.

Restarting kernel...

In [1]: 'C:/Users/strix/Documents/GitHub/AI-PAAS/CMAPSS/Script_Main.py' ='C:/ Users/strix/Documents/GitHub/AI-PAAS/CMAPSS'

Number of extracted features are 3

 $\label{local} WARNING: tensorflow: From C: \Users\strix\AppData\Local\Continuum\miniconda3\lib\site-packages \tensorflow_core\python\ops\resource_variable_ops.py: 1630: calling$

BaseResourceVariable.__init__ (from tensorflow.python.ops.resource_variable_ops) with constraint is deprecated and will be removed in a future version.

Instructions for updating:

If using Keras pass $*_$ constraint arguments to layers.

C:\Users\strix\AppData\Local\Continuum\miniconda3\lib\site-packages\tensorflow_core\python
\keras\layers\recurrent.py:781: DeprecationWarning: Using or importing the ABCs from
'collections' instead of from 'collections.abc' is deprecated, and in 3.8 it will stop
working

if (isinstance(inputs, collections.Sequence)

C:\Users\strix\AppData\Local\Continuum\miniconda3\lib\site-packages\tensorflow_core\python \keras\engine\training_utils.py:1293: DeprecationWarning: Using or importing the ABCs from 'collections' instead of from 'collections.abc' is deprecated, and in 3.8 it will stop working

if isinstance(sample_weight_mode, collections.Mapping):
Model: "sequential"

Layer (type)	Output	Shape		Param #
masking (Masking)	(None,	None,	3)	0
simple_rnn (SimpleRNN)	(None,	None,	15)	285
layer_normalization (LayerNo	(None,	None,	15)	30
simple_rnn_1 (SimpleRNN)	(None,	15)		465
layer_normalization_1 (Layer	(None,	15)		30
dense (Dense)	(None,	15)		240
leaky_re_lu (LeakyReLU)	(None,	15)		0
batch_normalization (BatchNo	(None,	15)		60
dense_1 (Dense)	(None,	15)		240
leaky_re_lu_1 (LeakyReLU)	(None,	15)		0
batch_normalization_1 (Batch	(None,	15)		60
dense_2 (Dense)	(None,	1)	========	16

Total params: 1,426

Trainable params: 1,366
Non-trainable params: 60

```
None
Train on 4235 samples, validate on 1818 samples
2474.9054
Epoch 2/5
1091.5686
Epoch 3/5
1183.1502
Epoch 4/5
1131.2501
Epoch 5/5
822.7016
PCA test variation is less than the train variation. It is - 0.82
The score is - 864 and mse is - 878.4346679221434 and pme is - -20.65388912200928 !!! Cry or
Celebrate
```

In [2]: