visualisation_est_2

March 29, 2020

1 Visualisation of estimations in ML experiments Group A

Done on LDPRF 2098.

1.0.1 Import necessary libraries

```
[1]: import numpy as np
  import pandas as pd
  import copy
  import tensorflow as tf
  from tensorflow import keras
  from tensorflow.keras import layers

# import codebase
  import thermalModel_main as tmm
  import thermalModel_groupB as tm_gb

import importlib
  importlib.reload(tmm)
  importlib.reload(tm_gb)
```

Using TensorFlow backend.

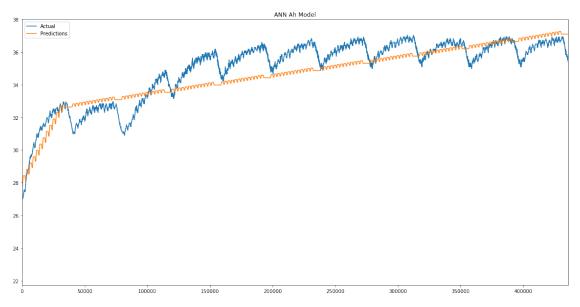
```
[1]: <module 'thermalModel_groupB' from 'C:\\Users\\user\\Anaconda3\\lib\\thermalModel_groupB.py'>
```

1.1 ANN Ah Model

1.1.1 Data loading and cleaning

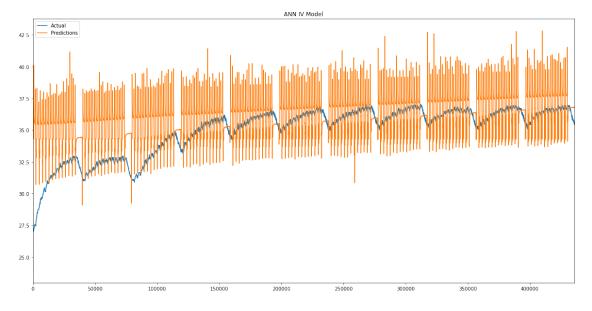
C:\Users\user\Anaconda3\lib\thermalModel_groupB.py:47: SettingWithCopyWarning: A value is trying to be set on a copy of a slice from a DataFrame

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-
docs/stable/indexing.html#indexing-view-versus-copy
  df['second'][set_index[index]:set_index[index+1]] =
df['second'][set index[index]:set index[index+1]] + second increment[index]
C:\Users\user\Anaconda3\lib\thermalModel_groupB.py:49: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
See the caveats in the documentation: http://pandas.pydata.org/pandas-
docs/stable/indexing.html#indexing-view-versus-copy
  df['second'][set_index[index]:] = df['second'][set_index[index]:] +
second_increment[index]
C:\Users\user\Anaconda3\lib\thermalModel_groupB.py:56: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
See the caveats in the documentation: http://pandas.pydata.org/pandas-
docs/stable/indexing.html#indexing-view-versus-copy
  df['second'][set_index[index]:] = df['second'][set_index[index]:] +
seconds_summation[index]
```



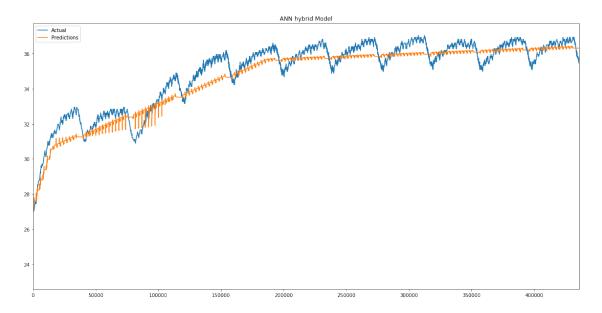
1.2 ANN IV Model

1.2.1 Data loading and cleaning



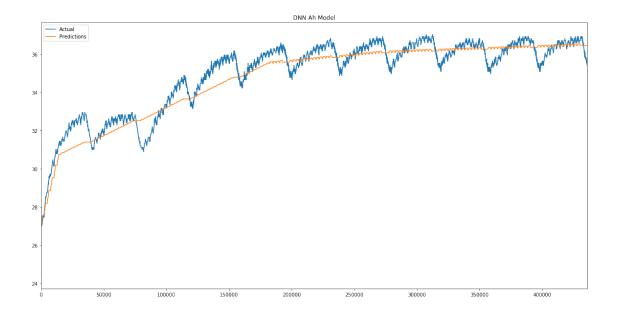
1.3 ANN Hybrid Model

1.3.1 Data loading and cleaning



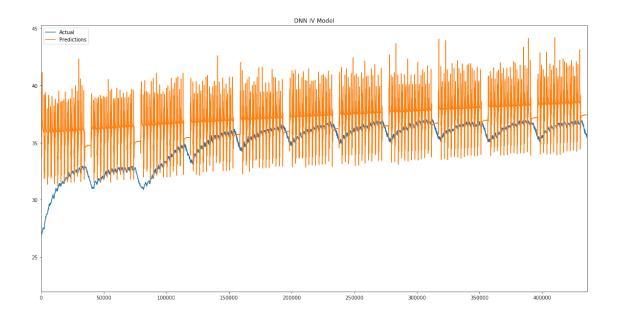
1.4 DNN Ah Model

1.4.1 Data loading and cleaning



1.5 DNN IV Model

1.5.1 Data loading and cleaning



1.6 DNN Hybrid Model

1.6.1 Data loading and cleaning

