# visualisation\_est\_1

March 29, 2020

## 1 Visualisation of estimations in 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.

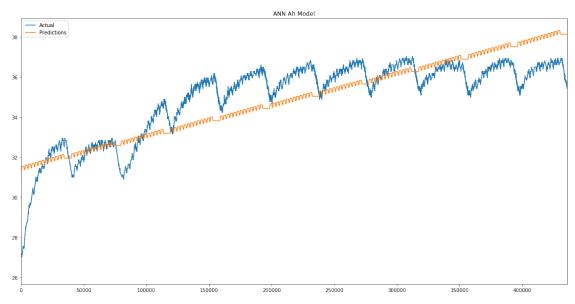
```
[1]: <module 'thermalModel_groupB' from
    'C:\\Users\\user\\Anaconda3\\lib\\thermalModel_groupB.py'>
```

#### 1.1 ANN Ah Model

## 1.1.1 Data loading and cleaning

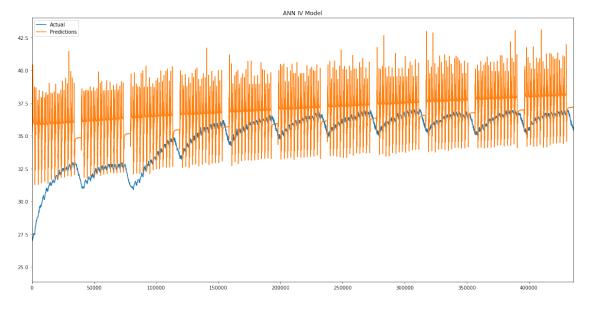
C:\Users\user\Anaconda3\lib\thermalModel\_groupB.py:47: SettingWithCopyWarning: A value is trying to be set on a copy of a slice from a DataFrame

```
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]
```



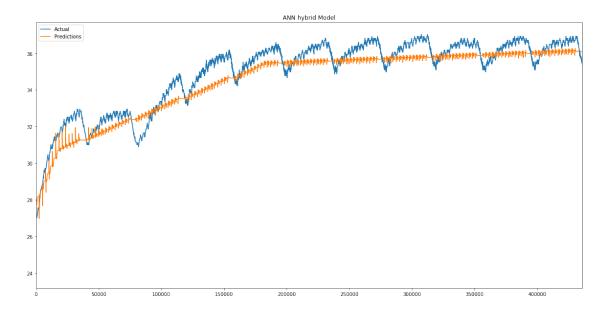
#### 1.2 ANN IV Model

## 1.2.1 Data loading and cleaning



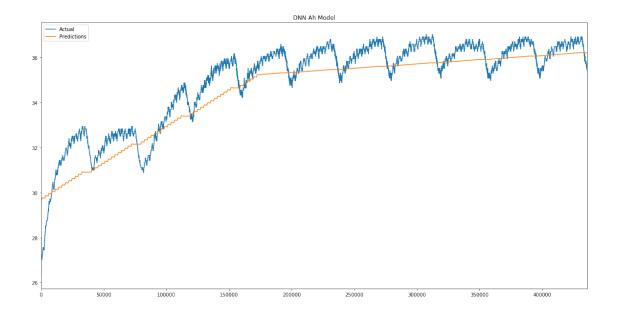
## 1.3 ANN Hybrid Model

#### 1.3.1 Data loading and cleaning



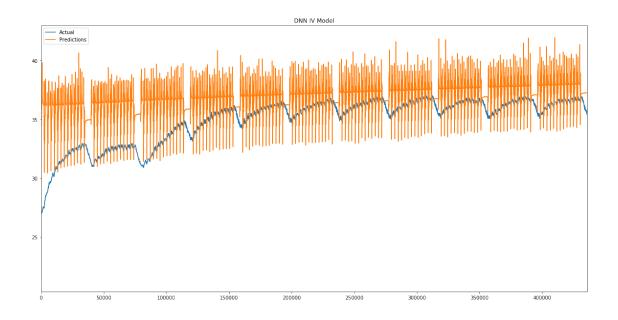
#### 1.4 DNN Ah Model

#### 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

