

# Meeting 9

11/04/2021

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# Deliverables

- Edit Heart rate Function

# Methodology and Learnings

How I did it:

Inserted list with column names

# Results

```
def biometricVar_per_epoch(epoch_dict, eeg_data):  
    #import library  
    import pandas as pd  
  
    # define output dictionary  
    epochbm_dict={}  
    # list to store column names we want to access from the data frame  
    df_cols = ['HR', 'Temp', 'SpO2']  
    # apply rolling average to dataframe comprising of df_cols  
    rolled_df = eeg_data.loc[:,df_cols].rolling(window=5000).mean()  
    # populate the output dictionary  
    for key, value in epoch_dict.items():  
        epochbm_dict[key]=[epoch_dict[key]  
                           ,rolled_df.loc[range(value[0], value[1])]]  
  
    return epochbm_dict
```

# Results

```
Out[4]: {'1': [[0, 53029],
               HR      Temp      SpO2
0         NaN      NaN      NaN
1         NaN      NaN      NaN
2         NaN      NaN      NaN
3         NaN      NaN      NaN
4         NaN      NaN      NaN
...
53024    54.2998    31.853213    0.0001
53025    54.2998    31.853213    0.0001
53026    54.2998    31.853213    0.0001
53027    54.2998    31.853213    0.0001
53028    54.2998    31.853213    0.0001

[53029 rows x 3 columns]],
'2': [[53029, 53528],
               HR      Temp      SpO2
53029    54.2998    31.853225    0.0001
53030    54.2998    31.853237    0.0001
53031    54.2998    31.853250    0.0001
53032    54.2998    31.853262    0.0001
53033    54.2998    31.853275    0.0001
...
53523    54.2998    31.862250    0.0001
53524    54.2998    31.862275    0.0001
53525    54.2998    31.862300    0.0001
53526    54.2998    31.862325    0.0001
53527    54.2998    31.862350    0.0001

[499 rows x 3 columns]],
'3': [[53528, 121033],
               HR      Temp      SpO2
53528    54.2998    31.862350    0.0001
53529    54.2998    31.862350    0.0001
53530    54.2998    31.862350    0.0001
53531    54.2998    31.862350    0.0001
53532    54.2998    31.862350    0.0001
...
121028    84.6762    31.837438    0.0001
121029    84.6766    31.837438    0.0001
121030    84.6770    31.837438    0.0001
121031    84.6774    31.837438    0.0001
```

```
Out[6]: {'1': [[0, 53029],
               HR
0         NaN
1         NaN
2         NaN
3         NaN
4         NaN
...
53024    54.2998
53025    54.2998
53026    54.2998
53027    54.2998
53028    54.2998

[53029 rows x 1 columns]],
'2': [[53029, 53528],
               HR
53029    54.2998
53030    54.2998
53031    54.2998
53032    54.2998
53033    54.2998
...
53523    54.2998
53524    54.2998
53525    54.2998
53526    54.2998
53527    54.2998

[499 rows x 1 columns]],
'3': [[53528, 121033],
               HR
53528    54.2998
53529    54.2998
53530    54.2998
53531    54.2998
53532    54.2998
...
121028    84.6762
121029    84.6766
121030    84.6770
121031    84.6774
```