Meeting #3

09/23/21

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Deliverables

- Read data using read_eeg.py function
- Visualize data using matplotlib
- Calculate statistics
- Familiarize with Json files

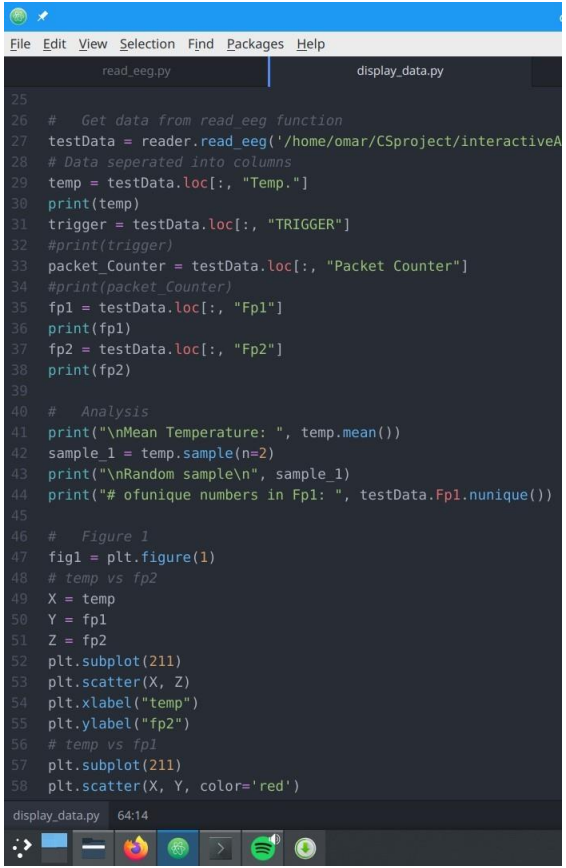
Methodology and Learnings

- Data
  - Imported the function from the file
    - Stored value as dataframe
  - Visualized by segmenting data into columns
    - Set up graphs
    - Plotted values
    - show() function
  - Used pandas functions to manipulate data and output statistics
- Json
  - syntax
  - pandas.read_json

Learning

- dataset vs dataframe
- Matlibplot functions
- Json files

Results




```
59 plt.xlabel("temp")
60 plt.ylabel("fp1")
61
62 #   Figure 2
63 fig2 = plt.figure(2)
64 # temp vs fp1
65 plt.subplot(111)
66 plt.plot(X, Y, color='green')
67 plt.xlabel("temp")
68 plt.ylabel("fp1")
69
70 plt.show()
71
```

functions : pyth

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```
3          31.8125
4          31.8125
             ...
146879     32.0000
146880     32.0000
146881     32.0000
146882     32.0000
146883     32.0000
Name: Temp., Length: 146884, dtype: float64
0         -0.008475
1         -0.008480
2         -0.008486
3         -0.008489
4         -0.008489
             ...
146879    -0.005828
146880    -0.005819
146881    -0.005815
146882    -0.005816
146883    -0.005821
Name: Fp1, Length: 146884, dtype: float64
0         -0.004371
1         -0.004376
2         -0.004385
3         -0.004392
4         -0.004394
             ...
146879    -0.002591
146880    -0.002581
146881    -0.002572
146882    -0.002568
146883    -0.002573
Name: Fp2, Length: 146884, dtype: float64

Mean Temperature:  31.8594954181531

Random sample
 50461     31.8125
2321      31.8750
Name: Temp., dtype: float64
# ofunique numbers in Fp1:  146878
```

Figure 2

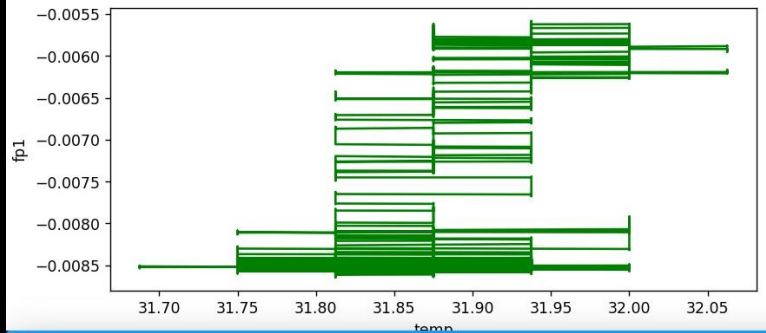

Figure 1