Hi all,

I’ve created a python package which will have all the common functions for analysis. I’ve uploaded a folder called ‘flicker\_analysis\_package’ on the shared google drive with the required files.

The functions that need to be written as of now (according to the ‘outline\_of\_functions’ word document) are mentioned as comments with ##. Comments with ### is for main headings and comments with # is for description of certain functions.

Download this folder ‘flicker\_analysis\_package’ from the shared drive and save it in a folder which has all the EEG data and output files. This folder has two python scripts, one empty file called \_\_init\_\_.py (which is important for python to consider this folder to be a module) and the functions.py script which contains all the functions.

To import this package, type this in the console:

﻿ from flicker\_analysis\_package import functions

I’ve written three functions for reference (taken from the codes we ran last week):

1. load\_data (file\_name, electrode\_name): This basically has the entire code in the load\_data\_single\_electrode.py code file

To test this, I ran the following in the console:

subject = 1

file\_name = ﻿S' + str(subject) + '\_colour'

﻿electrode\_name = 'Pz'

﻿functions.load\_data(file\_name, electrode\_name)

Or

functions.load\_data(‘S1\_colour’, ‘Pz’)

1. high\_pass\_filter(): Taken from make\_SSVEP\_colour.py code file

To test this, I ran the following in the console:

﻿electrode\_data\_file\_name = file\_name + '\_' + electrode\_name +'\_data.npy'

﻿ data = np.load(electrode\_data\_file\_name)

﻿data = functions.high\_pass\_filter(5000, data)

1. low\_pass\_filter(): Taken from make\_SSVEP\_colour.py code file

To test this, I ran the following in the console:

sample\_rate = 5000

﻿ data = functions.low\_pass\_filter(sample\_rate, data)

Or

﻿data = functions.high\_pass\_filter(5000, np.load('S1\_colour\_Pz\_data.npy'))

Or

﻿data = functions.low\_pass\_filter(5000, np.load(electrode\_data\_file\_name))

Please give it a try and let me know if this works and please feel free to change/remove anything that you would have done differently.