**15-06-2020**

Split the data into manually separated significant channels, I will likely want to see if this matches up significantly later if I implement a classification for the channel specific metrics. Think on this and talk to Tryphon.

Different subjects have different base levels / thresholds

i.e. subject 1 has a threshold of around 0 whereas subject 2 has a threshold around 100

compiled two classification – info documents (channel 1 is in position 2 of the data array, position 1 is the timepoints)

1. *Event number*
2. *Event start*
3. *Event end*
4. *Event class (channel 1)*
5. *Max frequency (channel 1)*
6. *Min frequency (channel 1)*
7. *Mean frequency (channel 1)*

*These can be considered quantitative descriptive statistics for the data – also consider the median and standard deviation of the event data maybe.*

*Split the dataset channels down from 32 to 10 of the most relevant channels, this is mostly based on the more extreme responses shown in the first channel.*

*I have used only the first 2 of the subjects but there are more available, check if supervisor would recommend a particular amount for the time being and check how many you actually have, it’ll definitely be worth applying all of this to more data.*

*Consider standardising and normalising the data, maybe that would be better for comparison of datasets.*

*And now for lunch!!*

**16-06-2020**

Okay, what things do I need to get a hold on - what do I need to do?

Check the meeting document from earlier in the week.

Find documentation regarding feature extraction techniques that I wish to use, this will be the basis for the first section of the literature review.

The literature review will be split into:

1. Data collection and existing variations
2. Feature extraction techniques
   1. Spectral domain
3. Channel selection techniques (if applicable)
4. Feature classification techniques
5. Machine learning
   1. Support vector machine
   2. Decision tree
6. Deep learning
7. Check the literature review documentation for anything I have missed here.