0-100 bipolar 1

101-200 bipolar 2

201-300 cyclothymia

Mood swing=1+200=201

Rage=1+1=2

Depression=100+1=101

Adding Multiple Traits

Rage+Anger+Violence=3

Mood Swing , rapid cycling+ restlessness+200=203

Made a complete list to store all synonyms of moods rage,anger,furious.. etc AND NOT CYCLOTHYMIA

Made a list of complee list of all synonyms depression, sadness, lethargy , etc… for bipolar two +100 and AND NOT CYCLOYTHMIA

If rapid cycling and mood swing , fast emotional changes- cyclothymia+300

Instead of bipolar write=+0

Instead of bipolar 2=+100

Instead of cyclothymia=+200

Paragraphs-> extracted traits,rituals,habits and moods of the textual data only using lists of complete words synonyms.-> if any words are present in the data base then extract other wise discard.

Make a dummy example that shows how the process is done.(paragraph to list of traits,habits,moods etc)

After that-> if mood swings or rapid cycling +200 and after that add +1 to individual words->if rage ,violence or their synonyms present and mood swings| rapid cycling not present then +0 and add 1 to individual words -> if depression, suicide or similar synonym words are present+100 and mood swings and rapid cycling not present + 100 and add 1 to plus 1 to each word in length.

After calculation-> append the data of values into a single list and make scatter plot using matplotlib take random y values in range of (0-10) for b1 (0-10) for b2 and (0-10) for cyclothymia. Y is the knob for deciding how close each of the clusters are.

For x generate random number b1 (0-10) b2(100-110) b3 (201-210) range -> append x and y and plot them using a scatterplot. Use x line to separate clusters etc..

For plotting the clusters the kmeans clustering algorithm can also be used after x and y array have been made.