Task:

Use group1's and group2's database as labeled data to train the prediction algorithm to predict pitch, yaw, and roll from EEG data

group 1 | group 2

r,p,y = roll, pitch, yaw in rad or deg

eeg loc (channel location)

Upload video | pose estimation | p,r,y val extraction | data base (1) | data base (2) subject n vid k selected

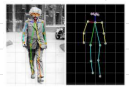
add landmarks and calculate the p, r, y over time | note: time stamps/intervals should match between r,p,y and eeg in the data base

s0 | database link (->s3) | documentation link

upload->

(->s1)

s1 | database link (->s3)



calculate data (->s2)

s2 | database link (->s3)

time stamps

s3

subjects:

- subject 1 vid 1
- subject 1 vid 2
- subject 2 vid 1
- subject 3 vid 1
- subject n vid k (->s4)

add data+

subject n vid k | s4

time stamps (rpy)	r,p,y (rad or deg)	time stamps (eeg)	eeg mV loc 1	eeg mV loc 2	eeg mV loc n (1-16)
00.00.00	31.00, -2.00, 26.00				
00.00.01	31.50, -2.30, 26.00				
00.00.02	31.60, -2.00, 26.00				
00.00.03	33.00, -2.00, 26.00				
00.00.04	34.00, -2.00, 26.00				

adjust time intervals

current time interval: 00.00.01

group3

pry = (pitch, roll, yaw)

EEG = [loc1:(mV_0 -> mV_n), loc2:(mV_0->mV_n), locn:(mV_0->mV_n)]

model(input=EEG) -> predict -> timeseries_pry

time stamps (rpy)	r,p,y (rad or deg)
00.00.00	31.00, -2.00, 26.00
00.00.01	31.50, -2.30, 26.00
00.00.02	31.60, -2.00, 26.00
00.00.03	33.00, -2.00, 26.00
00.00.04	34.00, -2.00, 26.00