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% MatlabPreprocessing.mlx - Extracts relevant data, outputs in .csv format

% {
for i = 1:62
  if (strcmp(BCI.chaninfo.label(i), 'C3') == 1)
     indexC3 = i
  elseif (strcmp(BCI.chaninfo.label(i), 'C4') == 1)
     indexC4 = i
  elseif (strcmp(BCI.chaninfo.label(i), 'CZ') == 1)
     indexCZ = i
  end
end
%}

patient = int2str(59);
total = 0;
totalFR = 0;
eventtype = cell(1,450);
for i = 1:450
  if(BCI.TrialData(i).tasknumber == 1 && BCI.TrialData(i).triallength > 4)
     targetnum = int2str(BCI.TrialData(i).targetnumber);
     result = int2str(BCI.TrialData(i).result);
     if (strcmp(result,'NaN') == 1)
        result = int2str(3);
     end
     total = total + 1;
     filename =
strcat(int2str(total),'patient',patient,'session11','trial',int2str(i),'target',targetnum,'result',result,'.csv');
     eventtype{total} = BCI.TrialData(i).targetnumber;
     bcidataT = transpose(BCI.data{1,i});
     csvwrite(filename, bcidataT);
     totalFR = totalFR + BCI.TrialData(i).forcedresult;
  end
end
rate = totalFR/total;
csvwrite(strcat('eventtype','patient',patient,'session11.csv'), eventtype);

% {
 accuracy rate of all the LR and UD trials
total = 0;
for i = 1:75
  total = total + BCI.TrialData(i).forcedresult;
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end
for i = 226:300
   total = total + BCI.TrialData(i).forcedresult;
end
rate = total/150;

total = 0;
for i = 76:150
   total = total + BCI.TrialData(i).forcedresult;
end
for i = 300:375
   total = total + BCI.TrialData(i).forcedresult;
end
rate = total/150;
} %
```