Instructions

Objective: Build models to classify whether an EEG belongs to Group1 or Group2.

Dataset:

Two different datasets are provided (Group1 and Group2).

Tasks for the candidate:

1. Exploratory Data Analysis
2. Feature Engineering
3. Build at least two classification models (supervised and/or unsupervised)
4. Hyperparameter Tuning
5. Model Evaluation
6. Explainability

Deliverables:

1. A 20-min presentation including:
   - background, expertise, and previous projects worked on
   - a report highlighting the models developed and their reasoning, performance metrics, insights gained from feature importance, and final recommendations based on the results
2. A well-documented code used for data processing, model building, and evaluation (to be uploaded on Sunday 27 October 2024, by 8pm)

We look forward to seeing you in person at the Wyss Center for Bio and Neuro Engineering, Chemin des Mines 9, 1202 Genève on Monday 28 October 2024.

Best regards,
The dEEGtal team