Project Guidelines

1. Project registration is available from 10-Feb-2025 (Monday) at 17:00 (5 pm).

2. Project selection deadline is 28-Feb-2025 (Friday) at 23:00 (11:00 pm).

3. The student is expected to do the following:

    a. Discuss the project with the supervisor.

    b. Thoroughly search and critically analyze the current and existing methods (proposed by other people) related to the topic of the project.

    c. Select one of the method from the existing methods (OR propose a new method) and then select the platform (Windows or Android) and the programming language(s) to implement the method.

    d. Validate the method using quality metrics like accuracy, sensitivity, specificity, precision, recall, F1 Score etc.

    e. Write a report with following sections:

        i. Abstract/Summary
        ii. Introduction: Description of the problem
        iii. Literature Review: Critical analysis of the current & existing methods
        iv. Dataset (if any): Description of the dataset(s). There may be many public datasets available for your topic. In case dataset is not available then discuss with the supervisor on how to proceed.
        v. Methodology: Detail of the method that will be used for data analysis
        vi. Implementation: Code used for data analysis
        vii. Results and Discussion
        viii. References

4. The following points are allocated for the project:

    a. Section (i) to (iv) & (viii): 20 Points
    b. Section (v) to (vii): 15 points
    c. Code & Demo: 20 Points
    d. Total: 55 Points

Links for Searching Datasets

a. https://openbci.com/community/publicly-available-eeg-datasets/#gsc.tab=0

b. http://bnci-horizon-2020.eu/database/data-sets

c. https://www.nature.com/articles/sdata2018308

d. https://github.com/openlists/ElectrophysiologyData#eeg-data

e. https://physionet.org/

f. https://www.nature.com/articles/s41597-021-01046-y

g. https://openneuro.org/