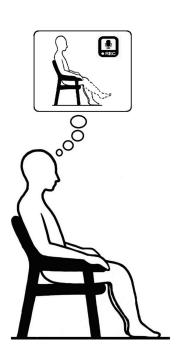
EEG Data Classification

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Introduction





Statement of project objectives

Primary:

Develop a EEG Data Classification System

Secondary:

Facilitate Brain-Computer Interface (BCI) Development

Approaches

- Data Collection:
 - Gather data using openbci EEG devices
- Data processing/feature selection:
 - Selecting relevant channels
 - Applying bandpass filtering to get the desired data
 - Using CSP to enhance information to noise ratio
- Classification Model:
 - Using LDA to have a binary classification

Deliverables

- Trained Model
- Confusion Matrix

 Reports and codes: Explanations of what the outputs might involve and codes for each sections

Evaluation Methodology

- Splitting data to train and test
 - Apply the model
 - Confusion matrix
 - Accuracy