

NEUROINFORMATICS PROJECT PROGRESS DOC

Initial Understanding of Datasets to select One Dataset

1. Essex EEG Movie Memory Dataset (ds006142)

What it's about: Participants watched 10-second clips from movies they had previously seen and were asked whether they recognized the movie and remembered watching it before.

Data collected: EEG recordings from 27 participants during movie clip viewing, along with behavioral responses (recognition yes/no, memory confidence ratings).

Data type: EEG data in BIDS format

2. Cognitive Electrophysiology in Socioeconomic Context (ds006018)

What it's about: Study examining how brain activity during cognitive tasks relates to socioeconomic background, education level, and other demographic factors in young adults.

Data collected: EEG data from 127 participants (ages 18-30) during cognitive tasks, plus extensive demographic information including childhood SES, education, income, and neighborhood factors.

Data type: EEG data in BIDS format

3. NOD-EEG (Natural Object Detection) (ds005811)

What it's about: Participants viewed natural images containing everyday objects and the study measured brain responses to object recognition in realistic, naturalistic scenes.

Data collected: High-resolution EEG data (1000 Hz sampling rate) from 20+ participants during presentation of natural scene images with various objects.

Data type: EEG data in BIDS format, 64-channel setup

4. Alphabetic Decision Task (ds005594)

What it's about: Participants made decisions about alphabetic characters presented in Arial Light font, involving reading and character recognition processes.

Data collected: EEG recordings during alphabetic decision tasks, integrated with behavioral response data (reaction times, accuracy).

Data type: EEG data in BIDS format