

possible project topic - EGG

1. Find **relationship among the parts of the brain** based on EGG dataset

- Experiment description:

Hypothesis

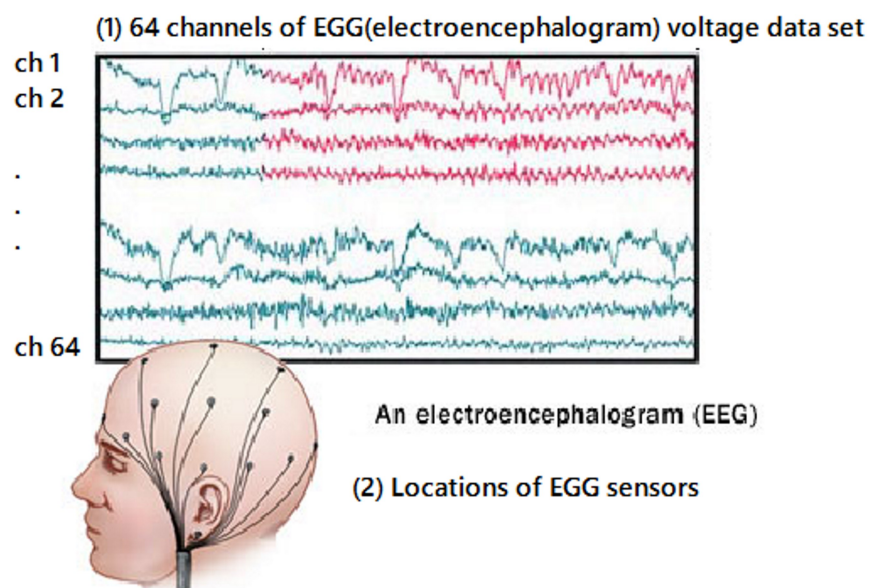
: memory will increase after taking certain amount of sleep

Procedure

- 1) After attaching sensors on head, show some scrambled images. Then ask if they have seen the image before to check the performance of memory.
- 2) Let him/she take a nap for certain amount of time.
- 3) Check memory performance again by asking again whether they've seen the images before or not.
- 4) Repeat 1) through 3) for several times

The EGG data set given to us is the result of above process.

- EGG data set description:
 - The EGG data will be given as a specific format which can be read through Python library MNE. It is stored on google drive.
 - Data from multiple people will be given.
 - The data set is composed of
 - 64 channel of EGG records with the **voltage strength per millisecond**.
 - 64 **locations of EGG sensor**(detector) on brain
(simliar location sensor will show similar pattern for its closeness -> try to remove the effect of it for it can considered as a noise)



- Default network(network that is active even when we are not doing anything) can be

v. **Visualize** the pattern

