Martin Labrie and Jean-Francois Cadieux

Evaluation of the team of : Mathis Rezzouk, Fabrice gagnon, Marc-Antoine Tremblay

Describe the project in a few sentences. This should NOT be a review, but just a description of the problem that the project tackles, their solution, and a summary of the results obtained.
The project uses machine learning models to try to distinguish noise in EEG signals compared to normal EEG. The project classifies EEG's from patients who were submitted to noise or pain. The objective is to be able to separate those noise pattern.

List and justify at least two strong aspects of the project.
One of the strong aspect is that they take interpretability and explicability into account. They have a good basis for metrics and the model/methodology seems well defined.

List and justify at least two lacking aspects of the project.
The dataset seems to be a little small to be able to distinguish patterns in the EEG's. Difficulty knowing if the patient was subjected to pain or noise.

List at least three questions to the project team.

Will you be using upsampling methods?

Will the dataset be preprocessed to eliminate involontary movement?

How will the EEG be classified (differenciating between noise and pain)?

Will you be using methods like ICA?