Dear Jesse and Laurent,

As discussed last Thursday, I send you this email with some questions regarding the project. I think that it could also be interesting that I make a little summarize of the work done. Let me know if that makes too big emails and that you prefer to stay with the questions in the future.

Summarize:

* I have found 9 methods that seems promising for the classification task.
* I found the corresponding paper and github repo of each method.
* I have a first version of the files architecture. Since every method has different needs regarding the setup, I was thinking about setting a different environment for each method and then implementing a preprocess that set our dataset correctly for each one of them. I can show it to you this Thursday.
* I have started to try and implement the methods with the original dataset. The next step for each method is to then match our dataset architecture to train them on it.
  + Regarding this task, I find it quite difficult to set up the right environment for the methods. I managed to make it work for the pointMLP method with one of the original dataset (modelNet40) and I hope to be able to preprocess our dataset to the corresponding shape before Thursday.

Questions:

* Do you know the platform "weights and biases"? If yes, do you think that it could be usefull for the testing and comparison of the different models?
* It seems like a lot (all) the methods have been implemented on ubuntu. In your opinion, would it be interesting that I switch on it (meaning to spend some time setting everything up and getting use to it) or is it a lost of time for this project?
* Would it be more efficient to store all the dataset in .h5 files?
* Is there labels with the .pcd file or is it "blank"? If not, can we get the label in the .pcd file or would it need to be stored elsewhere?

Have a nice evening,

Swann Destouches