

Exercise 4

Deadline: 13.06.2018

1 Final Project Topics (10 points)

Brainstorm for topics you would like to work on during your final mini-research project. Write up a short description of two or three project ideas, using advanced concepts from this semester's lecture (e.g. neural nets, Gaussian processes, graphical models, causality, even if the latter are still to come in the lecture).

- You should have fun working on them – choose an interesting problem. You can once again consult Kaggle or a research group/company you are in contact with. Another good possibility is to pick a paper whose results you are going to replicate – after all, independent reproduction of published results is the ultimate correctness proof and thus a core scientific activity.
- Don't choose projects whose solution can be downloaded from the internet. This is cheating!
- Your projects should neither be too easy nor too hard. Your team should be able to produce a reasonable solution within ≈ 90 hours per team member (equivalent to 3 ECTS).
- The same applies to hardware requirements: Don't choose a project that needs hardware you don't have access to (e.g. lots of GPUs). On the other hand, free offerings from the big cloud providers (e.g. Amazon Web Services) may give you more power than you are aware of.

Please hand-in your project descriptions in a single zip-archive with naming convention (sorted alphabetically by last names)

`lastname1-firstname1_lastname2-firstname2_exercise04.zip`

or (if you work in a team of three)

`lastname1-firstname1_lastname2-firstname2_lastname3-firstname3_exercise04.zip`

and upload it to Moodle before the given deadline.