Requirements

Hard requirements

- 2 to 5 Master’s students.
- some experience using Python.
- at least one of the INI’s Machine Learning courses.

Soft requirements

- reasonably good grasp on applied math (basic linear algebra & basic stochastics).
- previous exposition to numpy.
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Supervised Learning - Classification

Known labels: bear, beer, beard
Unsupervised Methods - Clustering
What is the project about?

kaggle

- online community for data science.
- provides possibility for companies, organisations, and the community to provide data and offer **data science competitions**.
- usually the competitions include some **reward** for the best teams - this could be a job opportunity, money, publication etc.
What should you do?

We will choose one (or more) of these competition datasets together. You should ...

- familiarize yourself with the data,
- find, understand, and try different ML algorithms,
- pre-process the data to increase the algorithms’ performance,
- work in a structured and self-organized manner, and
- write a concluding documentation on your approaches and results.

The results are open and so is the process.
What will you gain?

This gives you the opportunity to ...

- apply your theoretical knowledge in a real life scenario,
- collect experience that might be interesting to future employers, and
- lay the grounds for competing on Kaggle after the project is over (thus finding a really productive new hobby).
Rough schedule

- there will be a **kick-off meeting** in the week before the lectures start.
- afterwards, we will have roughly **bimonthly follow-up meetings** till a few weeks before the lectures end.
- this should give you enough time to finalize your documentation, report, and start exam preparation.
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Apply for the project

If you consider applying for the project, please include information regarding ...

- the Machine Learning lectures that you successfully attended, and
- your programming skills (Python in particular).
Any questions?

You want to know more about the project/organization/...?
Feel free to contact me:

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