

CS-C3250 Data Science Project

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Learning outcomes

- After the course, you can work as a data scientist in a team.
- You understand the structure and technical and non-technical challenges of data science projects.
- Furthermore, you learn to apply data analysis tools in a real-world data analysis project.
- Finally, you learn to document your project work and its outcomes, and to present its results and conclusions thereof both in writing and verbally.

Contents

- The course consists of a data science project which will be done in a small group for a real client from industry or academia.
- The activities include:
 - project management
 - requirements specification
 - design
 - coding
 - data collection
 - data curation
 - data storing
 - experimenting
 - documentation
 - presenting

Workload

- 6 x 2-hour lectures (1 by Jorma Laaksonen, 4 by visitors, 1 by groups)
- 10 x 2-hour supervised group meetings
- 3 x 2-hour final presentations for other groups at the companies
- participation in all above is **mandatory**, but few absences allowed
- **rest**: group and individual work, to be reported in MyCourses
- 135 hours total

Assessment methods

- Outcome of the project work done in a group of 5–6 students
- Presentation of the project work in the group
- Documentation of the project in the group's Final report
- Progress reports in MyCourses
- Self- and peer-reported activity
- Grade 0–5 by default the same for the whole group, but exceptions possible

Schedule

- Mondays 12:15 – 14:00 lectures (only in Period I)
- Thursdays 12:15 – 14:00 group meetings
- During September two reading tasks
- Late November / early December site visits and presentations at companies
- Early December final reports

Final presentation

- Prepared and given by the group
- Presented at the supervising company's premises
- Audience from the company may be present
- Summarize the data, methods and results of your project work

Final report

- Written by the group
- Summarize the data, methods and results of your project work
- Assess what was easy and what was difficult in the project
- Explain how the group worked as individuals and as a whole