

Week 6: Final Project

INFO 213 Data Science Programming II
Class 18

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Grading

Task	Weight	Due	
Datacamp Class Exercises	20%	In the respective week	
Assignment 1	15%	Week 2	
Assignment 2	15%	Week 6	
Project proposal	5%	Week 7	35%
Project presentation	10%	Week 9	
Project report	20%	Week 9	
Final Exam	15%	End of the term	

Project Requirements

This final project examines the level of knowledge the students have learned from the course. The following course outcomes will be checked against the content of the report:

Upon successful completion of this course, a student will be able to:

- Describe the key Python tools and libraries that related to a typical data analytics project.
- Identify data science libraries, frameworks, modules, and toolkits in Python that efficiently implement the most common data science algorithms and techniques.
- Apply latest Python techniques in data acquisition, transformation and predictive analytics for data science projects.
- Discuss the underlying principles and main characteristics of the most common methods and techniques for data analytics.
- Build data analytic and predictive models for real world data sets using existing Python libraries.

Marking will be focused on both presentation and content

Written Presentation Requirements

The report will be judged on the basis of visual appearance, grammatical correctness, and quality of writing, as well as its contents. Please make sure that the text of your report is well-structured, using paragraphs, full sentences, and other features of well-written presentation.

Marking will be focused on both presentation and content

Technical Content

- Is the problem well defined and described thoroughly?
- Is the size and complexity of the data set used in this project comparable to that of the example data sets used in the lectures and assignments?
- Did the report describe the characteristics of the data?
- Did the report describe the goals of the data analysis?
- Did the analysis conduct exploratory analyses on the data?
- Did the analysis build models of the data and evaluated the performance of the models?
- Overall, what is the rating of this project?

Important Deadlines

- **November 21:** Definition of the group elements for the final project (max 3 students from the same class [1 and 3 or 2 and 4])
- **November 23:** Submission of the proposal for the final project. Presentation of the proposal during the class.
- **From December 5th to 9th:** Presentation of the final project during classes
- **December 11:** Submission of the final project report

Important Deadlines

- **November 21:** Definition of the group elements for the final project (max 3 students from the same class [1 and 3 or 2 and 4])

During class, **one** element of each group has to **send me a message with the name of the group elements.**

Important Deadlines

- **November 23:** Submission of the proposal for the final project. Presentation of the proposal during the class.

During class, **one** element of each group **must present in 5 minutes** which dataset you have chosen and which type of analysis/model you intend to implement in your work.

By the end of the day each group **must submit their proposal** (using the template provided) **on the course page**.

Important Deadlines

- **From December 5th to 9th:** Presentation of the final project during classes

During class, **each group will have 15/20 minutes to present their work.**

Important Deadlines

- **December 11:** Submission of the final project report

By the end of the day each group **must submit their final project report** (using the template provided) **on the course page**.

Project Example

On the course page, there is an example of a project, where starting from a dataset with the grades and study hours of a group of students, data analysis is carried out culminating in the construction of a model that predicts the grade having into account the number of hours of study.

WEEK 7, 8 & 9: Project

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 [Project Example](#)

 [Project Proposal](#)

 [Project Proposal](#)

