Data Science
Week 41 – MA1 – Mandatory Assignment 1

KEA – Data Science Elective PBA – Fall 2019 – Henrik Strøm

October 10, 2019

Mandatory Assignment 1

This assignment must be done in your established groups.

Part 1: Hand-in by October 24, 2019.

- In this assignment you will process and analyze a dataset, and write up your findings in a 3 - 5 pages report.
- The dataset is given in the file `data.csv`, and the features are described on the following pages.
- You must decide on a relevant research question, and use statistical methods to answer that question.
- Focus on writing a solid report the way we have discussed in class.

Part 2: Hand-in by October 31, 2019.

In the second part of this assignment, you will do a short peer-review of two other groups.

Data Description (1)

- instr: Instructor's identifier; values taken from 1,2,3
- class: Course code (descriptor); values taken from 1-13
- repeat: Number of times the student is taking this course; values taken from 0,1,2,3,...
- attendance: Code of the level of attendance; values from 0, 1, 2, 3, 4
- difficulty: Level of difficulty of the course as perceived by the student; values taken from 1,2,3,4,5
- Q1: The semester course content, teaching method and evaluation system were provided at the start.
- Q2: The course aims and objectives were clearly stated at the beginning of the period.
- Q3: The course was worth the amount of credit assigned to it.
- Q4: The course was taught according to the syllabus announced on the first day of class.

Data Description (2)

- Q5: The class discussions, homework assignments, applications and studies were satisfactory.
- Q6: The textbook and other courses resources were sufficient and up to date.
- Q7: The course allowed field work, applications, laboratory, discussion and other studies.
- Q8: The quizzes, assignments, projects and exams contributed to helping the learning.
- Q9: I greatly enjoyed the class and was eager to actively participate during the lectures.
- Q10: My initial expectations about the course were met at the end of the period or year.
- Q11: The course was relevant and beneficial to my professional development.
- Q12: The course helped me look at life and the world with a new perspective.
- Q13: The Instructor's knowledge was relevant and up to date.
- Q14: The Instructor came prepared for classes.

Data Description (3)

- Q15: The Instructor taught in accordance with the announced lesson plan.
- Q16: The Instructor was committed to the course and was understandable.
- Q17: The Instructor arrived on time for classes.
- Q18: The Instructor has a smooth and easy to follow delivery/speech.
- Q19: The Instructor made effective use of class hours.
- Q20: The Instructor explained the course and was eager to be helpful to students.
- Q21: The Instructor demonstrated a positive approach to students.
- Q22: The Instructor was open and respectful of the views of students about the course.
- Q23: The Instructor encouraged participation in the course.
- Q24: The Instructor gave relevant homework assignments/projects, and helped/guided students.
- Q25: The Instructor responded to questions about the course inside and outside of the course.

Data Description (4)

- Q26: The Instructor's evaluation system (midterm and final questions, projects, assignments, etc.) effectively measured the course objectives.
- Q27: The Instructor provided solutions to exams and discussed them with students.
- Q28: The Instructor treated all students in a right and objective manner.

Q1-Q28 are all Likert-type, meaning that the values are taken from 1,2,3,4,5