Please note that there is only one respondent to this form: the person that performs the course analysis.

Course analysis carried out by (name, e-mail):
Atsuto Maki (atsuto@kth.se)

DESCRIPTION OF THE COURSE EVALUATION PROCESS
Describe the course evaluation process. Describe how all students have been given the possibility to give their opinions on the course. Describe how aspects regarding gender, and disabled students are investigated.
The students were given an opportunity to complete a course evaluation, the standard process using the format, without any exceptions.

DESCRIPTION OF MEETINGS WITH STUDENTS
Describe which meetings that has been arranged with students during the course and after its completion. (The outcomes of these meetings should be reported under 7, below.)
During the preparation period for each of the three labs, we arranged Q&A time slots when students can directly meet a TA one-to-one, in addition to the drop-in hours. During Lecture 12 (the final lecture) we spent some time for Q&A (after three mini-lectures). The course also had a communication channel with the students course committee (kursnämnden).

COURSE DESIGN
Briefly describe the course design (learning activities, examinations) and any changes that have been implemented since the last course offering.
HT22 (P1) was the 11th course round of DD2421 preceded by the one in VT22 (P3).
The course provides an overview of the field of machine learning and describes a number of learning paradigms, algorithms, theoretical results and applications. It also covers some basic concepts of statistics, artificial intelligence and information theory relevant to machine learning.

Lectures were given by three teachers (6 by Atsuto Maki, 3 by Bob Sturm, 2 by Jörg Conradt, and the last lecture consisting of three mini-lectures by all on topics for studying machine learning beyond the scope of the course.
The materials are mainly based on James et al. [1], Prince [2], and Rojas [3] for supplementary reading, all available online.
We made the lecture slides available on Canvas, as well as recordings made from the previous course rounds during pandemic.

Written exam consisted of questions corresponding to a learning outcome (full point 42). The score from the programming challenge (full point 18) was added, making the total up to 60 points. It was graded in the range of A-F.
The number of students was 211, about 60 students fewer given that students in TMAIM were asked to take another alternative course from this course round.

THE STUDENTS’ WORKLOAD
Does the students’ workload correspond to the expected level (40 hours/1.5 credits)? If these is a significant deviation from the expected, what can be the reason?
All in all the distribution of students’ workload appears to correspond to the expected level. Some comments: “reasonable for master's student”, “was ok”, “5 very manageable workload”. They sounded reasonable in average.

THE STUDENTS’ RESULTS
How well have the students succeeded on the course? If there are significant differences compared to previous course offerings, what can be the reason?
The highest number of students received ‘B’, followed by ‘C’, ‘A’, and then ‘D’ by 23 students and ‘E’ by five of them. The number of students that failed was 16.

STUDENTS ANSWERS TO OPEN QUESTIONS
What does students say in response to the open questions?
Some positive aspects in comments such as “The organization of the course lectures, assignments and exams”, “The diversity of elements to learn, i appreciated that it covered a wide range of aspect”, “The programming challenge was a good assignment to apply what you had learned throughout the course.”, “enjoy the lectures!” Some others request for more, e.g. “More practical work” “Maybe an optional math primer”.

SUMMARY OF STUDENTS’ OPINIONS
Summarize the outcome of the questionnaire, as well as opinions emerging at meetings with students.
Largely well accepted as a nice course, as in the previous course rounds.

OVERALL IMPRESSION
Summarize the teachers’ overall impressions of the course offering in relation to students’ results and their evaluation of the course, as well as in relation to the changes implemented since last course offering.
The shape of the polar diagram looked similar to HT21, mostly balanced but with exceptions of lower scores in two items as is always the case with this course. 5. I felt togetherness with others on the course, and especially 20. I had opportunities to influence the course activities. Those can be seen natural considering the large number of participants.

ANALYSIS
Is it possible to identify stronger and weaker areas in the learning environment based on the information you have gathered during the evaluation and analysis process? What can the reason for these be? Are there significant difference in experience between:
- students identifying as female and male?
- international and national students?
- students with or without disabilities?
Due to the low number of answers analyses not available this time, but a comment “All good” was given per gender, type of student, and disability.
PRIORITIZED COURSE DEVELOPMENT

What aspects of the course should be developed primarily? How can these aspects be developed in short and long term?

This was the 11th course round as stated above, and the course appears to be well established through revisions of contents. According to students' feedback we keep some aspects for further improvements in the medium/long term:

• written exercises in some form / adding extra study sessions (though it would require more resources),
• adding another lab

OTHER INFORMATION

Is there anything else you would like to add?

The programming challenge designed and coordinated by Bob Sturm. The team of TAs headed by Alex Kozlov. Gratefully acknowledged.