Introduction to machine learning, WS 2021/22

Problem 2

Description: The candidates for the open professorship for Robotics shall give their talks on the 18.11. The selected candidate will become a member of the CAIRO research team and shall be involved in teaching in the new AI master's program. The candidates will each present two talks, the first on a common imposed (obligatory) topic "Multimodal Sensor Fusion in Urban Environments", the second on a topic of their choice. There should be altogether 5 candidates, the talks are scheduled to start at 8:30 and finish at 17:15.

Background: As a data scientist, you need to be able to actively listen to your colleagues, clients, and other contacts to comprehend their problems and analytical requirements even for fields you know very little about. You then need to be able to formulate these in your own words so that a) you can agree on the goals of the analysis, b) you can communicate the problem description, and the aims and results of the analysis to your collaborators and supervisors. To succinctly summarize a complex unfamiliar problem make it understandable to your peers is a skill you can improve by practice and directed feedback.

Your task: Listen to the talks carefully and *actively* so that you can summarize them after in a short text.

Details of your task: You should write two pieces of text.

1. The first shall cover the imposed topic (Multimodal Sensor Fusion in Urban Environments). By the end of the day, you shall hear 5 different talks on the topic and your summary can either cover all 5 of them or focus on a single talk of a specific speaker (or of a few speakers). You should indicate in your text which talks your text covers.
2. The second shall cover one of the topics of choice. This one you can choose as you like (you found it the most interesting, the easiest to talk about, you understand the best, etc.). You shall indicate in your text which talk your text covers.

Each of the pieces of text shall be of around *300 words* and it shall address the following three aspects: *context* (what it the general problem setup, situation, what field is this about, what well-known and established methods / approaches are there), *main points* (what are the main points the speaker wants to communicate, where is the specific focus of the talk), *practical application* (what is the practical application or main theoretical outcome, how can these be used in practice or in further research development). The text shall be *in comprehensible English*, I will correct grammar or other English errors (to the extent possible) but these will have no impact on the evaluation.

Teams: The same as for part A.

Submission: Submit the two texts in one document via e-learning (only one for the team of two). *The deadline is Sunday 27.11. 23:59*.

Questions: If you have any, please ask me right away (via mattermost). Don't wait till we see each other in the course, it may be too late for you then.

Note1: These pieces of text have nothing to do with the formal assessment of the candidates and the selection procedure. Such an assessment by the student community is a useful and very much appreciated piece of information contributing to the complex decision process. This shall, however, be organized by Mr. Anton Kaiser, the student representative in the hiring committee and I hope he (will) have contacted you accordingly.

Note2: This text has a little over 600 words. So your two texts together shall be a about the length of this document 😊.