Supervision 3: Telling a Cat from a Dog

Date: Tuesday 11th February.

Excellence: the aim of this session is introducing them to the topic of Machine Learning. The Powerpoint presentation and Lab 3 introduction is a bit more consistent than the previous one, and I want to get through it during the session. However, I also want to make sure that any questions they have about Lab 2 or Python in general are properly addressed .

Pre-knowledge required: ideally they should come to the session confident enough in their Python and data science skills that they can complete the next Lab.

Preparatory work required: [Lab 2 (original)](.).

Material needed:

- Prepare PowerPoint slides for introduction and activity 2.
- Mark their homework and take notes on who managed to do what to better lead activity 1.

Plan

Session Start and Introduction (5min)

Remember to take attendance and ask for colour blindness, or to tell me about any disability they may have.

Small ice-breaker question: are you a cat or a dog person? *Go around the room, each person that goes names the person to go next.*

Activity 1: Homework Review (15min)

- Ask them to pull up their feedback if they have not already. Give them a quiet moment to read the feedback, and think of any questions they might want to ask. **(5min)**
- Share my screen with an empty notebook and depending on:
    1. If they speak up, either answer their questions soliciting students that successfully managed relevant sections. If not, go through the notebook together focusing on specific sections.
    2. If they all seem confident, move on to the rest of the supervision.

Activity 2: Powerpoint (10min)

Share the presentation on my screen.

- Define Data Science and ask students to give an example of data that they have encountered before.
- Present some applications of data science:

1. Ask the students: what kind of data do you think each of these applications need?
2. Present the self-driving car example.
- Transition to the topic of Lab 2.

Activity 3: Lab 3 (15min)

- Tell them to access the Lab 3 on Google Drive, and go over the first theoretical part together.
- Answer any questions they may have about the theory.
- Ask them to start working through it (it will also be their homework).

Summary: Question Time (5min)

Any questions?
Set the work for the following supervision: mention that they should submit by **Monday 22nd February, 5pm** (~24h before the next supervision) if they want me to mark their work.

Buffer (5min)