Project - ML2

Choose a paper/book chapter from the list:
https://docs.google.com/spreadsheets/d/1CRPfQ0U9PXwx_VH89ViXwLjyzpbPmou4BW9YIu-0KS4/edit?usp=sharing
Each paper can be chosen by two pairs.

1. Paper summarization - Summarize the paper, as a guideline, verify that you answer on the following questions:
    a. Explain the main topic of the paper. What are the challenges it addresses and what techniques are proposed?
    b. What are the main results of the paper?
    c. If the paper presents a proof - understand and explain it.
2. Second part - You may choose one track.
    a. Theoretical - In the theoretical part, you will extend the main paper's result. For example, extend it to a special case.
        i. After reading and understanding the main results, write a short proposal for a theoretical extension.
        ii. We will meet at the end of February (24-28; date will be set later) and discuss your proposal.
        iii. Follow the proposal/meeting alternative.
        iv. Support your result with an experiment. Here you are allowed to modify existing public code.
    b. Practical -
        i. Implement the main results of the paper. You are not allowed to use code from the internet.
        ii. Show results on a dataset that does not appear in the original paper.
        iii. Discuss your results and how they align/not align with the paper hypothesis.

Submission guidelines

- Project report: You are allowed to use any text editor. +2 points for reports that will be written in Latex.
- Code: Present the results in a Jupyter notebook. All other code (method, utils, etc.) can be written in files and imported to the Jupyter. You are encouraged to use Pytorch but it's not a must.
- Deadline: Beginning of Spring semester (20.03.22). All projects will be submitted through moodle.