Group Practice 1

Concepts to Learn:

Use state-of-the-art convolutional neural nets to either

    A – Real-time Object Detection

or

    B – One-shot Face Recognition

This is a mandatory Group Practice

Do all that you want, zip your work under the name. Practice1_GroupX_DL_YOUR_NAME_YOUR_SURNAME.zip and upload it at campus in the Practice1 assignment.

You can choose to either do a real-time object detection system using YOLOv8 or a one-shot learning face recognition system.

Notes:

- Do not reinvent the wheel. The idea is that you use pre-trained neural nets or already done libraries.

- Build your project step-by-step explaining every step in a final report. The quality & clarity of the explanation will be considered for grading purposes.

- The final delivery of your group would consist of:

    o The final report
    o The code to make it work (in Colab)
    o Video demo.

In both projects, it would be considered an extra for grading:

- Deploy it into a mobile phone. You can use tiny versions of the models and Android Studio for this.

- Use your own data, video, faces… to fine tuning the nets and adjust them to your problem.