**Part 1**

**1.** Open a Python project

**2.** Install YOLOv8- trained model

**3.** Run a code snippet to detect objects on several images and save them in the results folder

**Summary:**

I used a Google search for installation commands, then wrote a short code snippet with YOLO, ran it a few times with different images to see that it works well and detects objects in images.

I had some errors in the installations but they didn’t interfere with the project running.

**Part 2**

**1.** Install llama-cpp-python pdfminer.six

**2.** Search a full construction specification document

**Summary:**

I wasn't able to understand exactly what was required of me, I didn't get to deal with LLM, I don't shy away from learning new things - on the contrary, I love challenges :) But I had a hard time completing the task without AI...which is what I usually do when I encounter new materials**.**

**Part 3**

Building a Dockerfile:

**1.** I chose a basic image: python:3.10-slim to reduce the image size

**2.** I installed the necessary tools to run models

**3.** I installed the libraries needed to run both tasks in Python

**4.** I copied all the necessary files into the image

**5.** I set WORKDIR to /app so that all runs and file calls would be consistent

**6.** I added a pre-download step of the YOLOv8n model so that the container wouldbe immediately ready to run.

**7.** In CMD I defined the main.py script that runs all the tasks

**Summary:**To build and run the project end-to-end, clone the repository and run in terminal:

*docker build -t midai .*

*docker run --rm -v $(pwd)/results:/app/results midai*