Objective:

Given a 15-second video, identify each player and ensure that players who exit the frame and reappear are assigned the same identity as before.

Instructions:

1. Use the provided object detection model to detect players throughout the clip.
2. Assign players Id based on previous few secs.
3. Maintain the same id for players when they re-enter the frame later in the video
4. Your solution should stimulate real-time reidentification and player tracking

Model download:

Object detection model: https://drive.google.com/file/d/1CpPuugC6FrEnInnnLyMNvo2AXsXYs7\_E/view?usp=drive\_link

This model is a basic fine tuned version of ultralytics YOLOv11, trained for players and the ball