

Guided Projects Artificial Intelligence & Machine Learning

Guided Projects: Unsupervised Learning

Mean-Shift: Single Object Tracking in Images

Question:

Using OpenCV implement a single object tracker. Steps to be implemented:

- a) Use a pre recorded video or your webcam to have a videoCapture object.
- b) Mark the region of interest (roi or the object you want to track) using its coordinates in the first frame.
- c) Calculate the histogram of the ROI.
- d) Iteratively calculate the histogram at each location (using `cv2.calcBackProject`) and then apply mean shift to get the updated location of the roi.