

## **Object Tracking**

Object Tracking is the process of locating and following objects of interest in a sequence of frames in a video. It involves algorithms that maintain the identity of objects over time despite changes in appearance, occlusion, and motion. Object tracking finds applications in surveillance, video analysis, augmented reality, and human-computer interaction. Tracking algorithms use techniques such as motion estimation, feature matching, and Kalman filtering to predict the future positions of objects and maintain their trajectories across frames.