Possible **Libraries & Modules** that can be used to develop object detection for RoboControl:

OpenCV

- ➤ Modules:
 - cv2.HOGdescriptor: Can be used for "pedestrian" object detection
 - cv2.ml: Machine learning module of OpenCV, used for training and object detection models

❖ TensorFlow

- ➤ Modules:
 - **tensorflow.keras:** Create deep learning models for object detection
 - **tensorflow.image:** Used for image processing: resizing, cropping, normalization, etc.
 - **tensorflow.object_detection:** Provides pre-trained object detection models and tools to train custom detection models

❖ SciPy

- ➤ Modules:
 - **scipy.optimize:** Provides optimization functions for object detection and tracking (finding optimal trajectories)
 - **scipy.ndimage:** Provides various image processing functions: filters, morphology: segmentation