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section_detect module

section_detect.**detect_objects**(*frame*, *model*)

    Performs object detection on the given frame using the YOLO model. Returns the detection results.

section_detect.**draw_sidewalk_lines**(*frame*, *center_x*, *center_y*, *height*, *width*)

    Draws the sidewalk lines on the given frame.

section_detect.**initialize_camera**()

    Initializes the PiCamera for capturing images.

section_detect.**initialize_led_pins**()

    Initializes the LED pins as output pins.

section_detect.**initialize_model**()

    Initializes the YOLO model for object detection.

section_detect.**main**()

    Main function to run the object detection and LED control.

section_detect.**process_results**(*results*, *frame*, *sidewalk_class_counts*, *street_class_counts*, *center_y*, *top_sidewalk_slope*, *top_sidewalk_intercept*, *bottom_sidewalk_slope*, *bottom_sidewalk_intercept*)

    Processes the object detection results and updates the class counts.

section_detect.**update_led_lights**(*sidewalk_class_counts*, *street_class_counts*, *sidewalk_person_detected*, *street_person_detected*, *RED*, *YELLOW*, *GREEN*)

    Updates the LED lights based on the detected objects.

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