AI Pipeline for Image Segmentation and Object Analysis

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Running pipeline...

Running pipeline...visualize_segmentation start

Running pipeline...visualize_segmentation end

Running pipeline...save_extracted_objects start: used to save the extracted objects from orignal image

Running pipeline...save_extracted_objects end

Running pipeline...identify_objects start

Running pipeline...identify_objects end

Running pipeline...extract_text_tesseract start

Running pipeline...extract_text_tesseract end

Running pipeline...summarize_attributes start

Running pipeline...summarize_attributes end

Running pipeline...create_data_mapping start

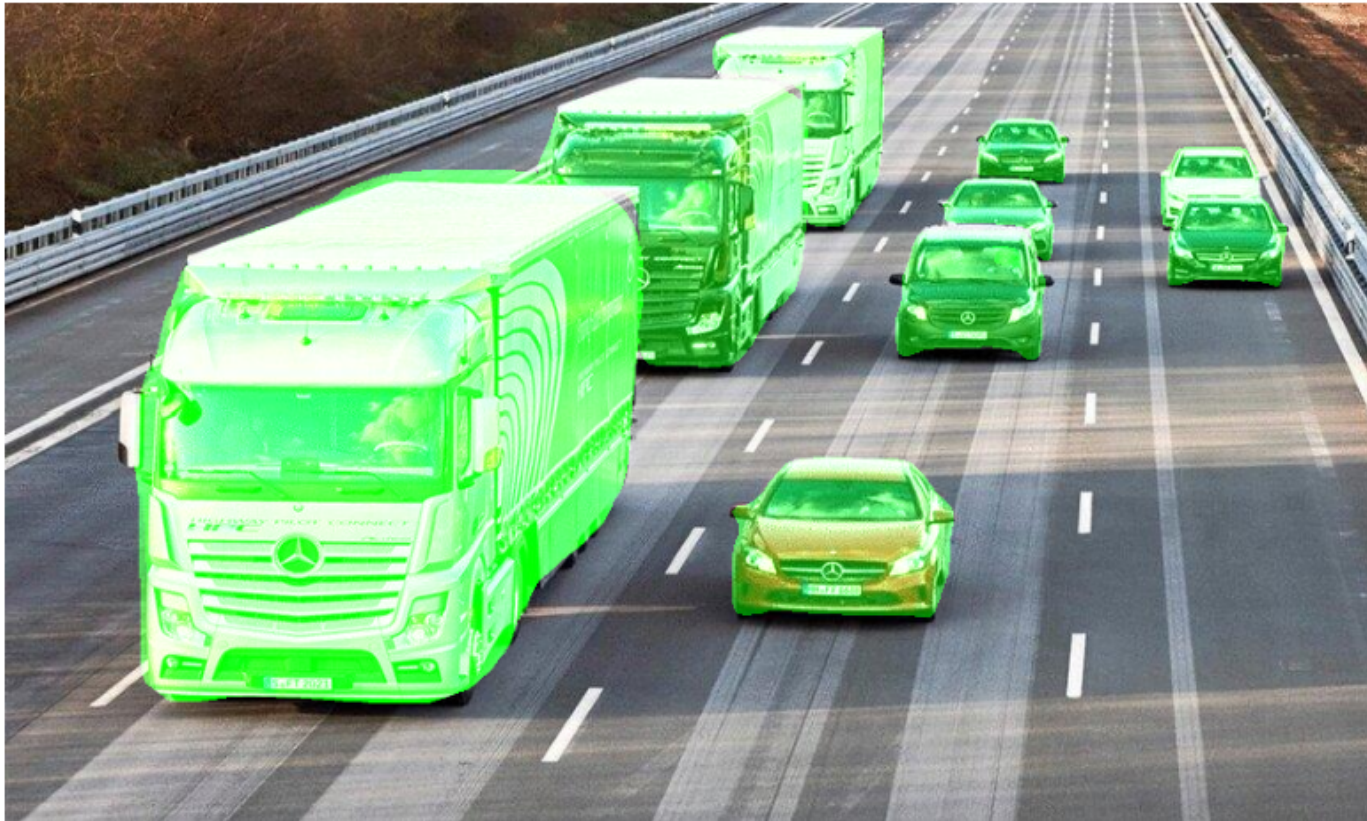Running pipeline...create_data_mapping end

Running pipeline...generate_annotated_image start

Running pipeline...generate_annotated_image end

Running pipeline...generate_summary_table start

Running pipeline...generate_summary_table end

Visualized Segmented Objects

Final Output Image with Segmentation

Running pipeline...Displaying Identified Objects

	Object_ID	Image_File	Description	Confidence
0	object_1	object_8.png	car	0.8328
1	object_2	object_7.png	truck	0.7074
2	object_3	object_1.png	car	0.9308
3	object_4	object_3.png	car	0.792
4	object_5	object_2.png	car	0.8387
5	object_6	object_6.png	airplane	0.4432
6	object_7	object_6.png	kite	0.3954
7	object_8	object_6.png	car	0.3289
8	object_9	object_4.png	bus	0.2783
9	object_10	object_9.png	kite	0.4339

Running pipeline...Displaying extracted_text_file

	Object_ID	Image_File	Extracted_Text
0	object_1	object_8.png	None
1	object_2	object_7.png	None
2	object_3	object_1.png	None
3	object_4	object_3.png	None
4	object_5	object_2.png	None
5	object_6	object_6.png	None
6	object_7	object_4.png	None
7	object_8	object_9.png	None
8	object_9	object_5.png	None
9	object_10	object_10.png	None

Running pipeline...Displaying summary_file after running summarization model

	Object_ID	Summary
0	object_1	No text extracted.
1	object_2	No text extracted.
2	object_3	No text extracted.
3	object_4	No text extracted.
4	object_5	No text extracted.
5	object_6	No text extracted.
6	object_7	No text extracted.
7	object_8	No text extracted.
8	object_9	No text extracted.
9	object_10	No text extracted.

Running pipeline... Displaying mapping in JSON format:

```
{
  "Master_Image" : "/content/temp_uploaded_image.jpg"
  "Objects" : [
    0 : {
      "Object_ID" : "object_1"
      "Image_File" : "object_8.png"
      "Extracted_Text" : "No text extracted."
      "Summary" : "No text extracted."
    }
```

```
1 : {
    "Object_ID" : "object_2"
    "Image_File" : "object_7.png"
    "Extracted_Text" : "No text extracted."
    "Summary" : "No text extracted."
}
2 : {
    "Object_ID" : "object_3"
    "Image_File" : "object_1.png"
    "Extracted_Text" : "No text extracted."
    "Summary" : "No text extracted."
}
3 : {
    "Object_ID" : "object_4"
    "Image_File" : "object_3.png"
    "Extracted_Text" : "No text extracted."
    "Summary" : "No text extracted."
}
4 : {
    "Object_ID" : "object_5"
    "Image_File" : "object_2.png"
    "Extracted_Text" : "No text extracted."
    "Summary" : "No text extracted."
}
5 : {
    "Object_ID" : "object_6"
```

```
        "Image_File" : "object_6.png"

        "Extracted_Text" : "No text extracted."

        "Summary" : "No text extracted."
    }
  6 : {
        "Object_ID" : "object_7"

        "Image_File" : "object_4.png"

        "Extracted_Text" : "No text extracted."

        "Summary" : "No text extracted."
    }
  7 : {
        "Object_ID" : "object_8"

        "Image_File" : "object_9.png"

        "Extracted_Text" : "No text extracted."

        "Summary" : "No text extracted."
    }
  8 : {
        "Object_ID" : "object_9"

        "Image_File" : "object_5.png"

        "Extracted_Text" : "No text extracted."

        "Summary" : "No text extracted."
    }
  9 : {
        "Object_ID" : "object_10"

        "Image_File" : "object_10.png"

        "Extracted_Text" : "No text extracted."
```
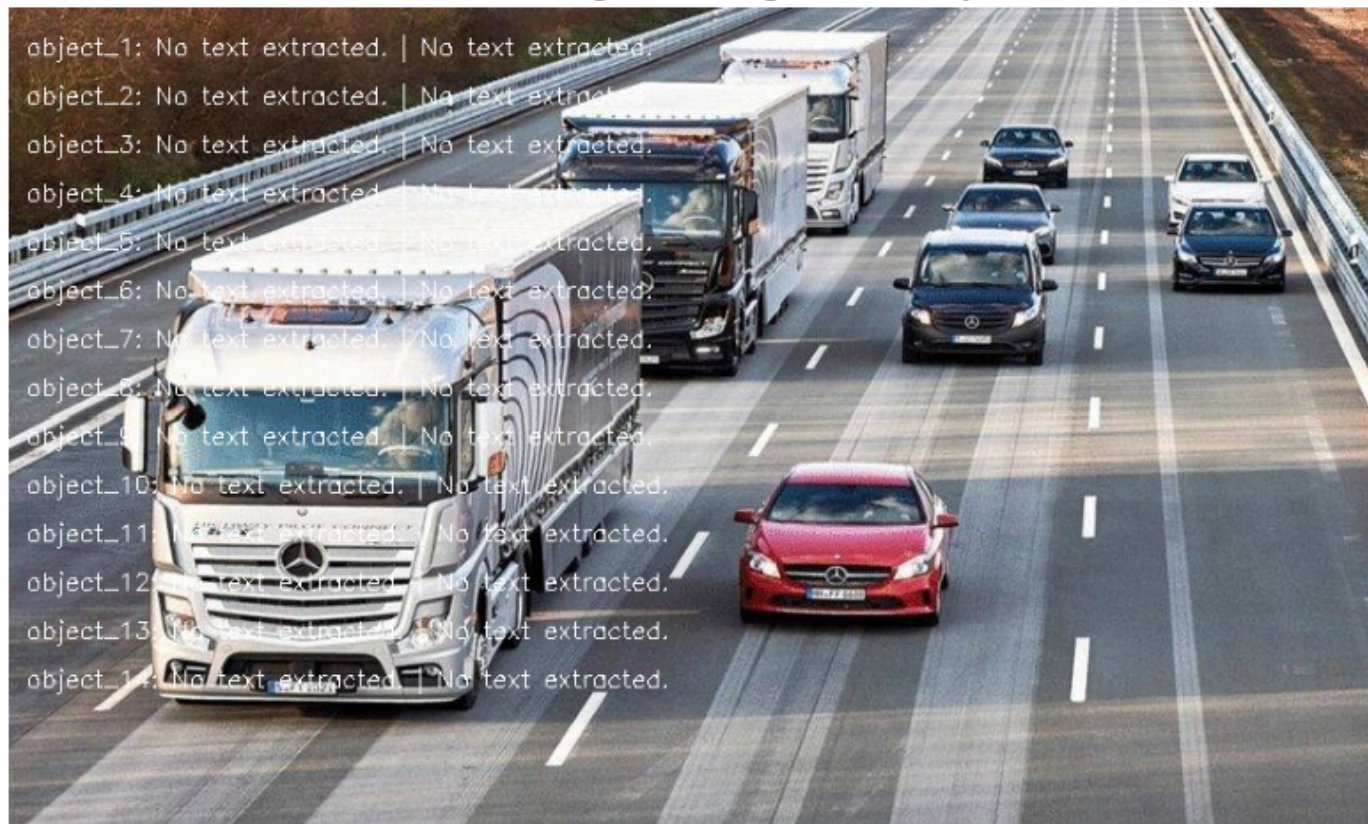
        "Summary" : "No text extracted."
      }
    10 : {
      "Object_ID" : "object_11"
      "Image_File" : "object_11.png"
      "Extracted_Text" : "No text extracted."
      "Summary" : "No text extracted."
    }
    11 : {
      "Object_ID" : "object_12"
      "Image_File" : "object_12.png"
      "Extracted_Text" : "No text extracted."
      "Summary" : "No text extracted."
    }
    12 : {
      "Object_ID" : "object_13"
      "Image_File" : "object_14.png"
      "Extracted_Text" : "No text extracted."
      "Summary" : "No text extracted."
    }
    13 : {
      "Object_ID" : "object_14"
      "Image_File" : "object_13.png"
      "Extracted_Text" : "No text extracted."
      "Summary" : "No text extracted."
    }

```
    ]
}
```

Annotated Image with Segmented Objects

object_1: No text extracted. | No text extracted.
object_2: No text extracted. | No text extracted.
object_3: No text extracted. | No text extracted.
object_4: No text extracted. | No text extracted.
object_5: No text extracted. | No text extracted.
object_6: No text extracted. | No text extracted.
object_7: No text extracted. | No text extracted.
object_8: No text extracted. | No text extracted.
object_9: No text extracted. | No text extracted.
object_10: No text extracted. | No text extracted.
object_11: No text extracted. | No text extracted.
object_12: No text extracted. | No text extracted.
object_13: No text extracted. | No text extracted.
object_14: No text extracted. | No text extracted.

Final Output Image with annotation

	Object_ID	Image_File	Extracted_Text	Summary
0	object_1	object_8.png	No text extracted.	No text extracted.
1	object_2	object_7.png	No text extracted.	No text extracted.
2	object_3	object_1.png	No text extracted.	No text extracted.
3	object_4	object_3.png	No text extracted.	No text extracted.
4	object_5	object_2.png	No text extracted.	No text extracted.
5	object_6	object_6.png	No text extracted.	No text extracted.
6	object_7	object_4.png	No text extracted.	No text extracted.
7	object_8	object_9.png	No text extracted.	No text extracted.
8	object_9	object_5.png	No text extracted.	No text extracted.
9	object_10	object_10.png	No text extracted.	No text extracted.