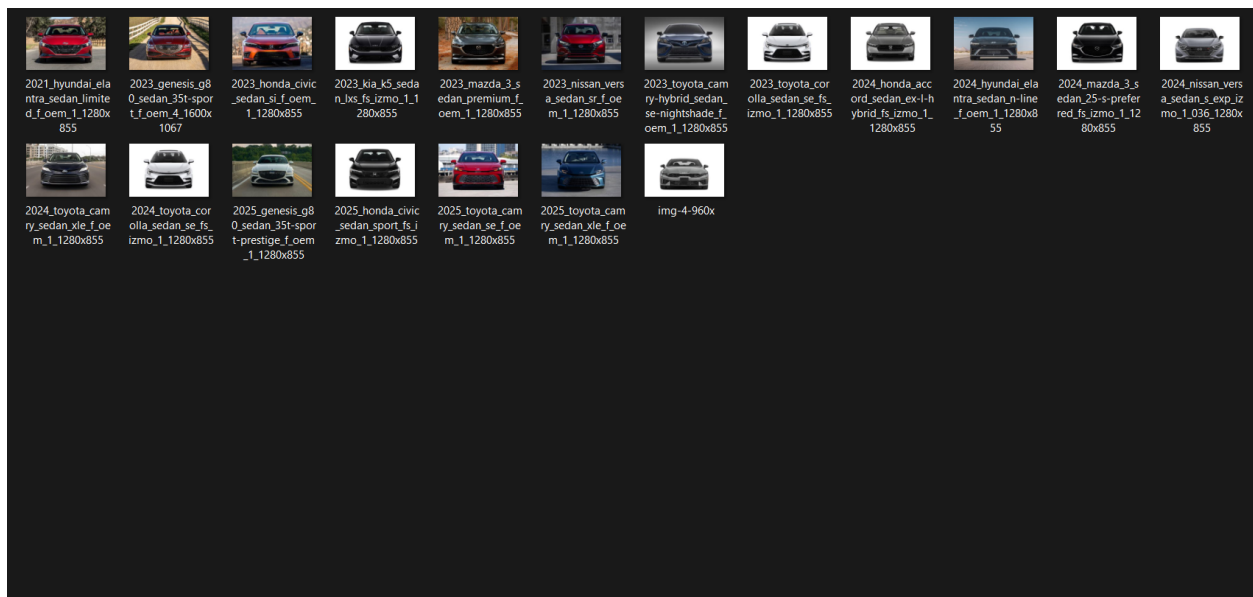


Step-by-Step Guide for Labeling and Annotating Images Using Makesense.ai (used for Training the model)

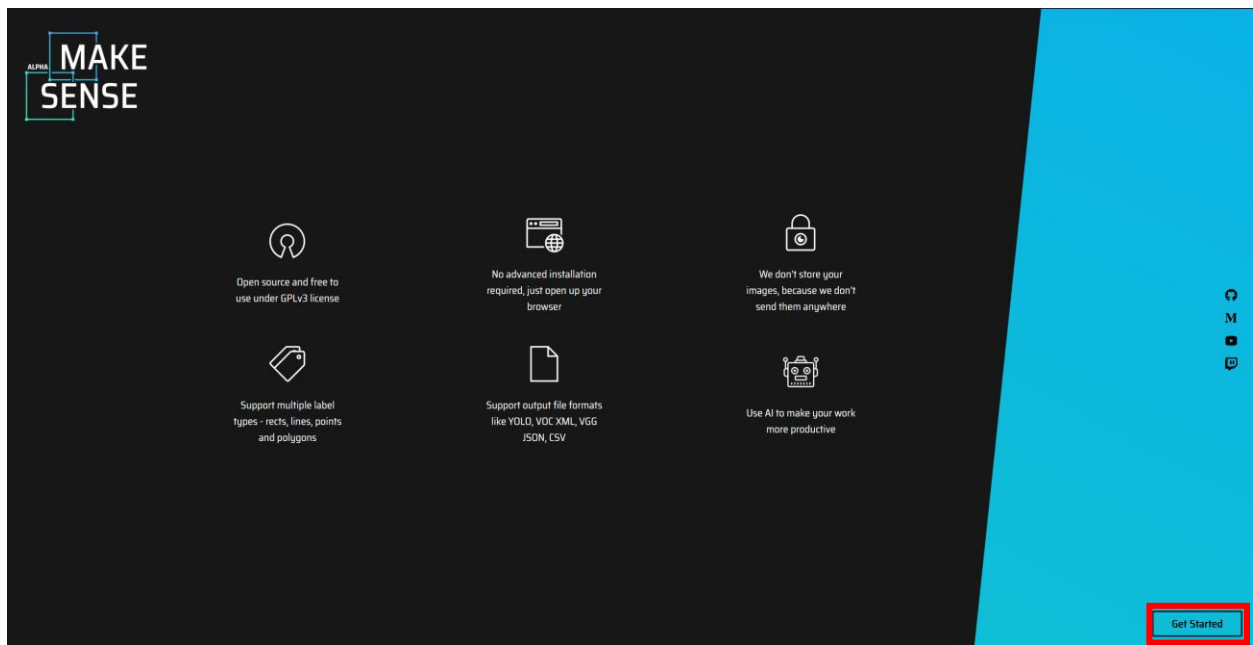
1. Prepare Your Images

- Collect all the images you want to annotate and ensure they are in a supported format (e.g., JPEG, PNG).
- Organize them into a single folder for easier upload.



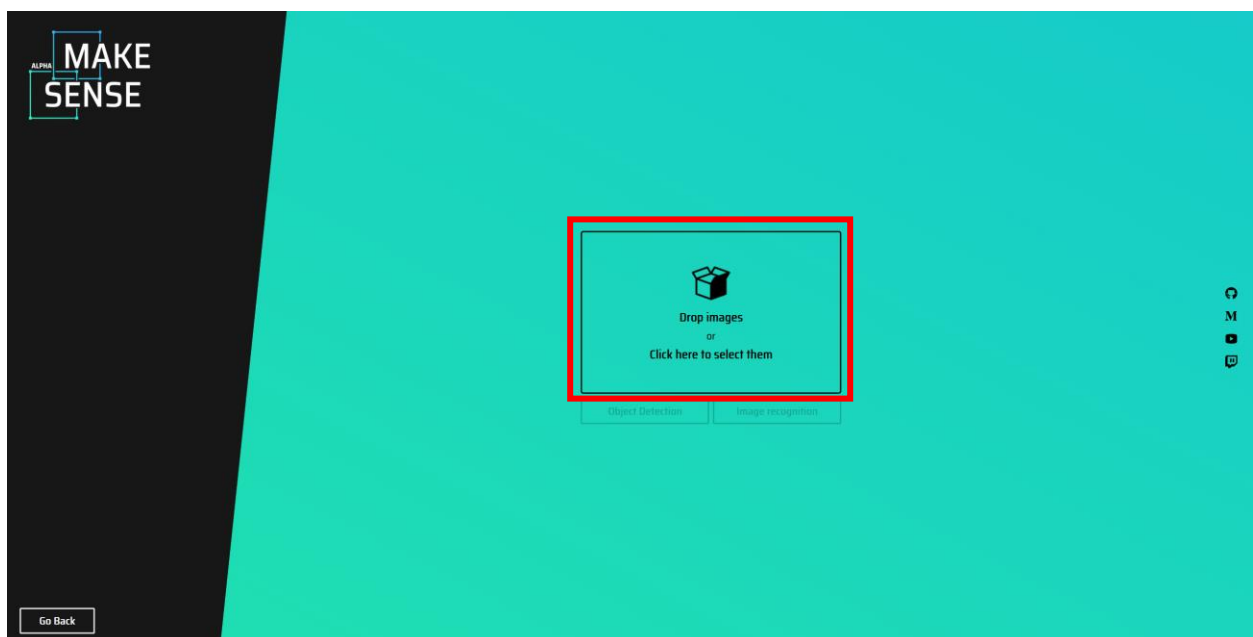
2. Access Makesense.ai

- Visit the [makesense.ai website](https://makesense.ai).
- No account is needed; you can start annotating directly.



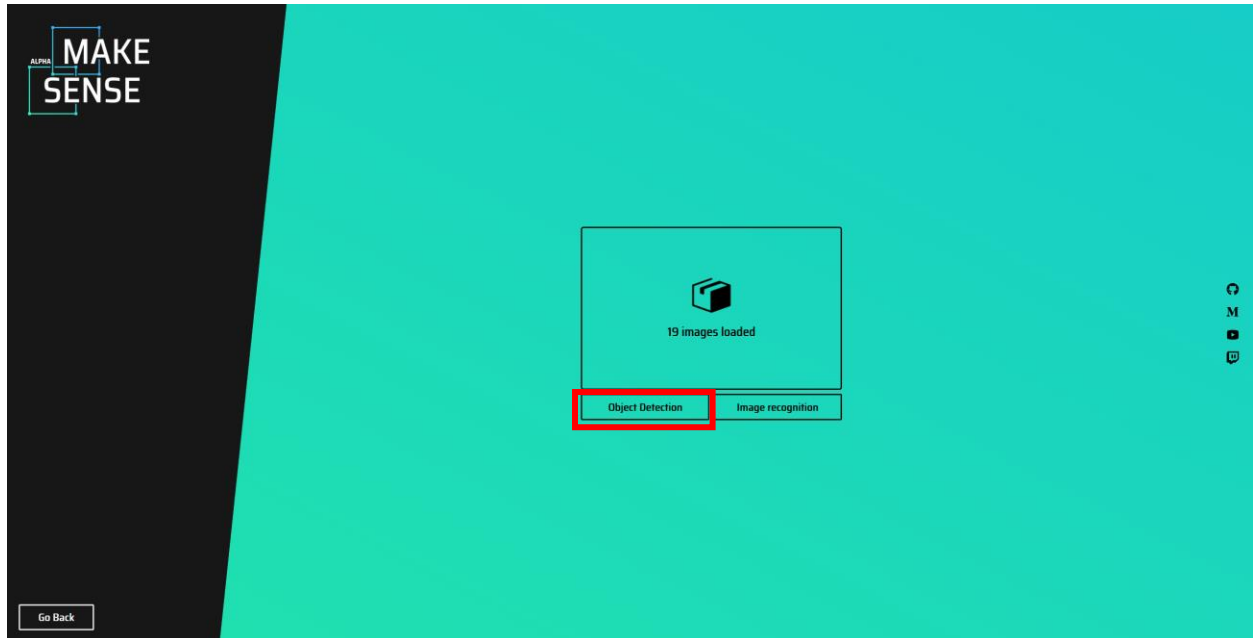
3. Upload Images

- Click on the **"Get Started"** button on the homepage.
- Select **"Upload Images"** and choose your image files or drag and drop them into the uploader.
- Wait for the images to load onto the platform.



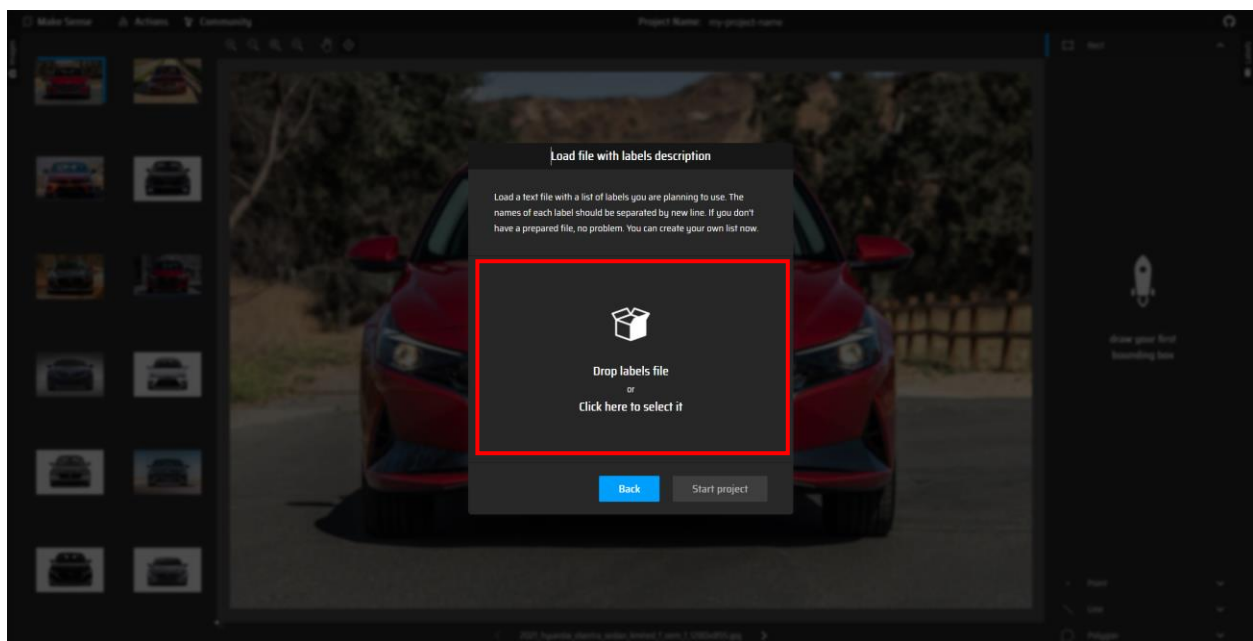
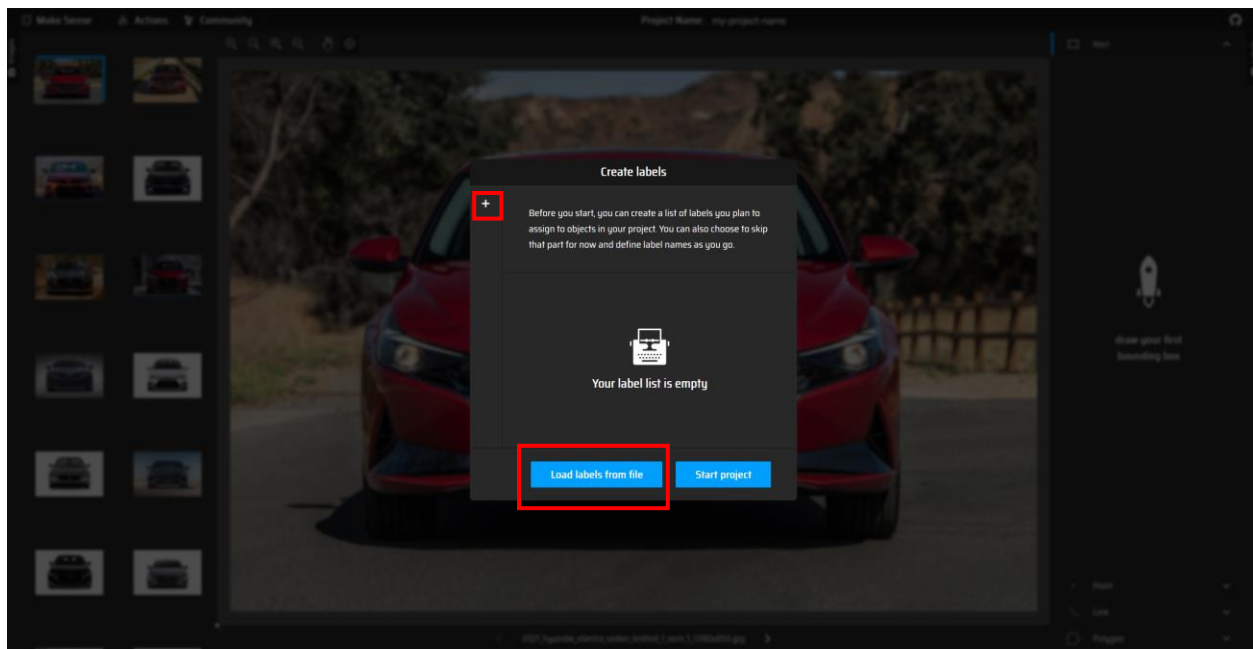
4. Choose Task Type

- After uploading, you will be prompted to select either **Object Detection** or **Image Recognition**. For this use case, select **Object Detection**.

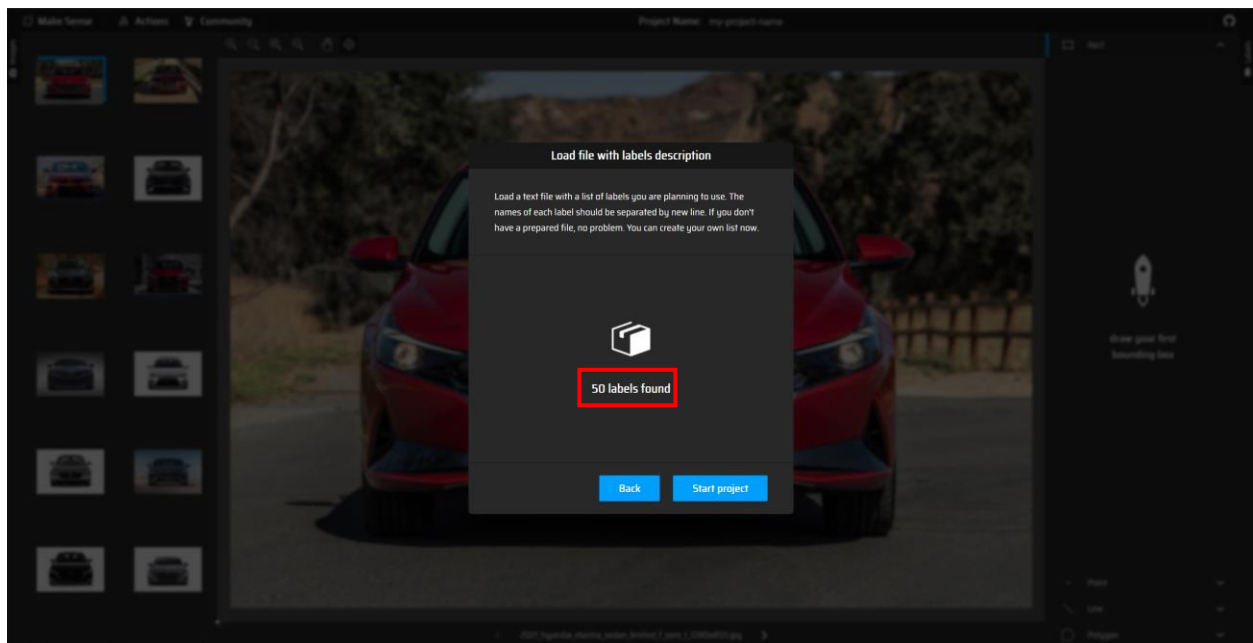


5. Create Labels

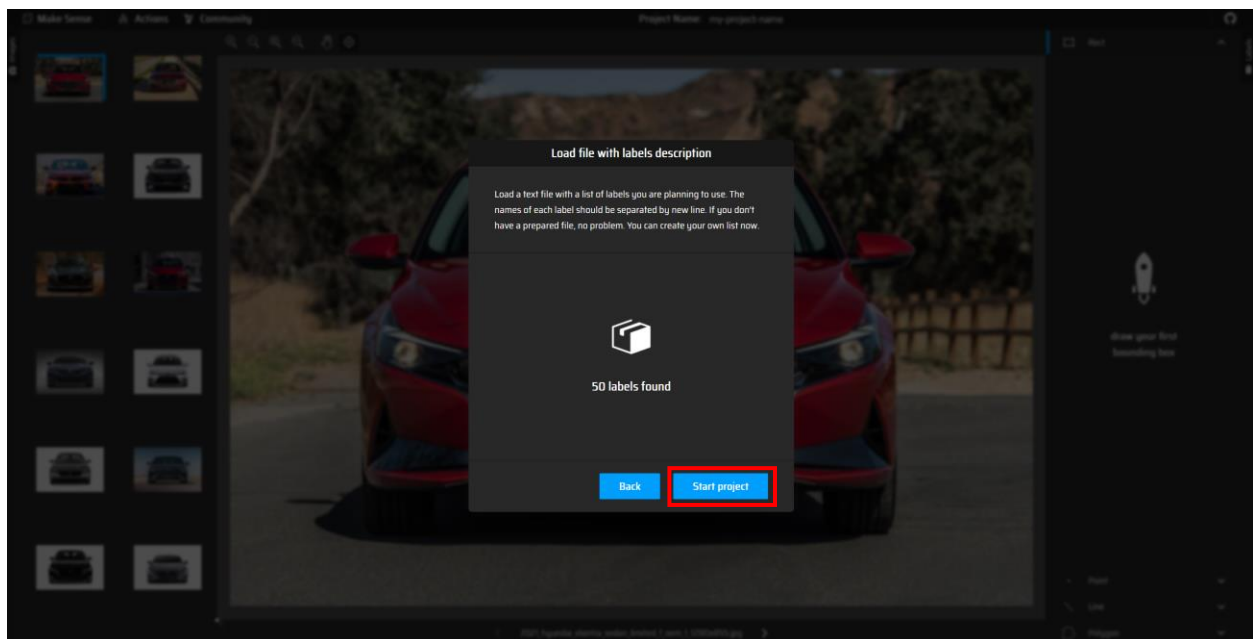
- Next step is to add labels. Click “+” and type the name of the label, or select “**Load labels from file**”
- For this use case, import the .txt file containing 50 design points using “**Load labels from file**” option



After importing:

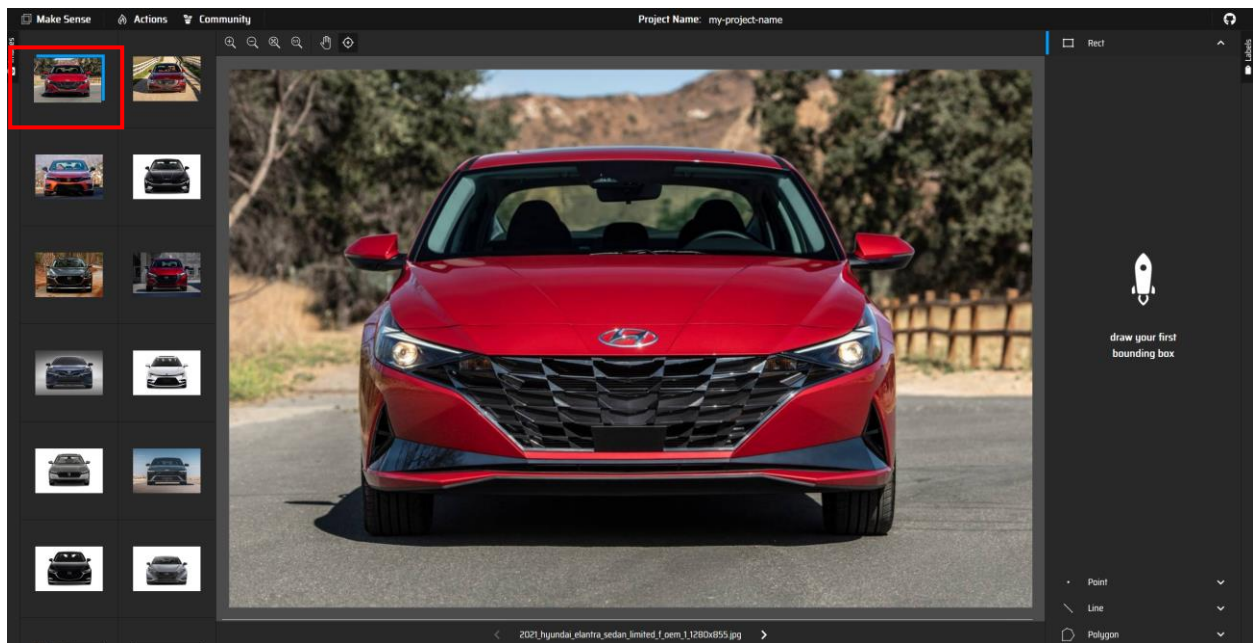


Click on **“Start Project”**

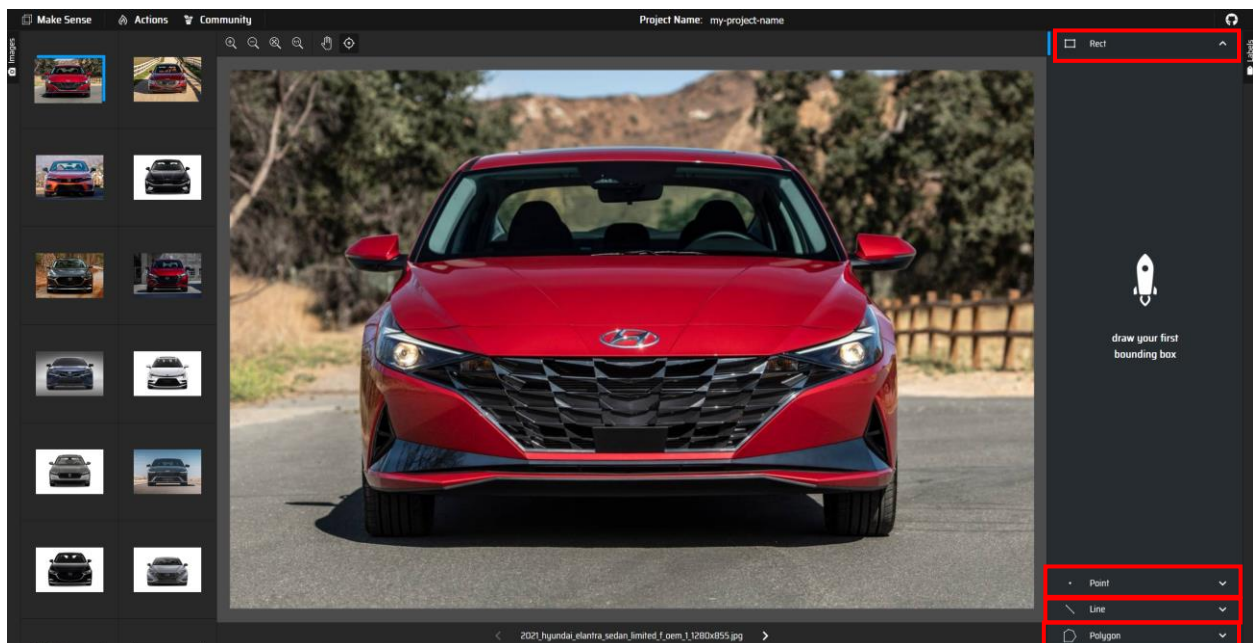


6. Annotate Images

- Select an image from the uploaded list.

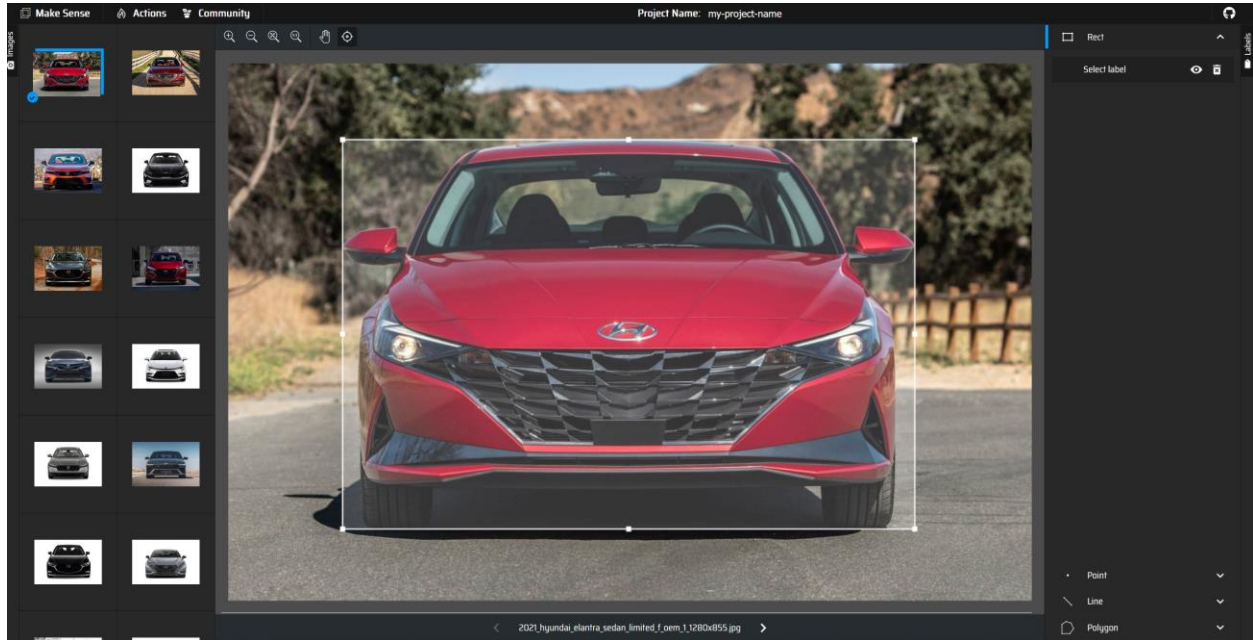


- Use the tools provided to annotate:
 - For **Bounding Boxes**, click on “**Rect**” and draw rectangles around objects of interest.
 - For **Keypoints**, click on “**Point**” to mark specific locations.
 - For **Lines**, click on “**Line**” to draw lines connecting one point to another
 - For **Polygons**, click on “**Polygon**” to create multiple points that form a closed shape.

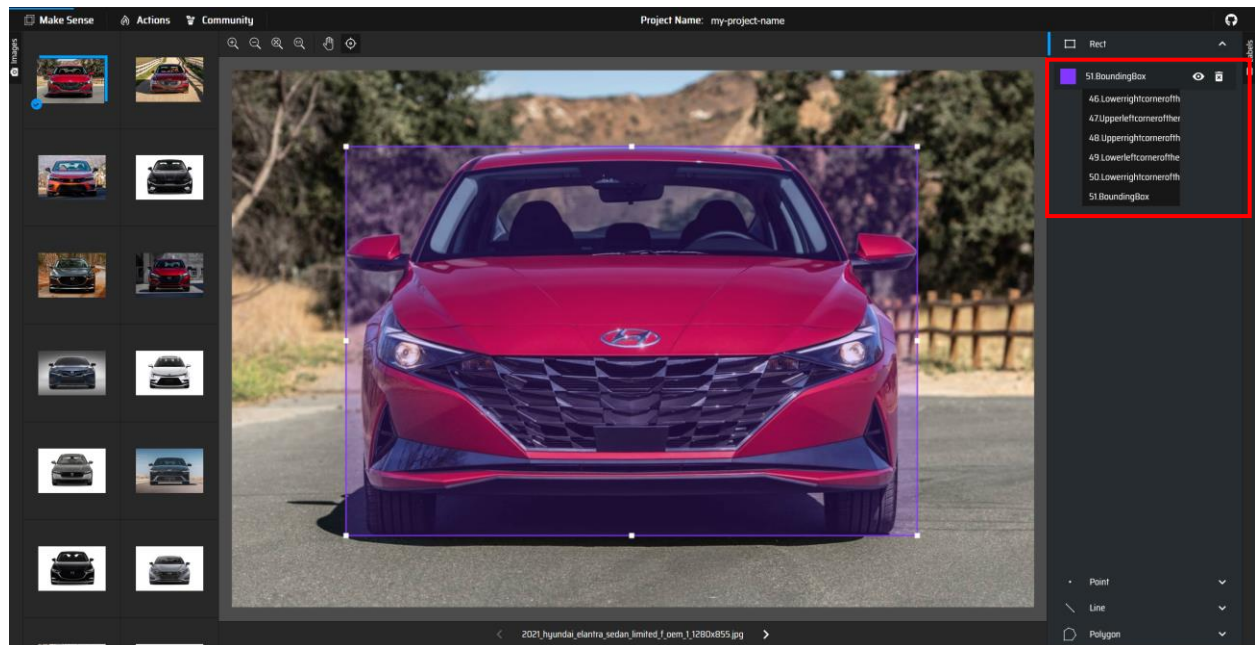


For this use case, we will use the **“Point”** and **“Rect”** functionalities

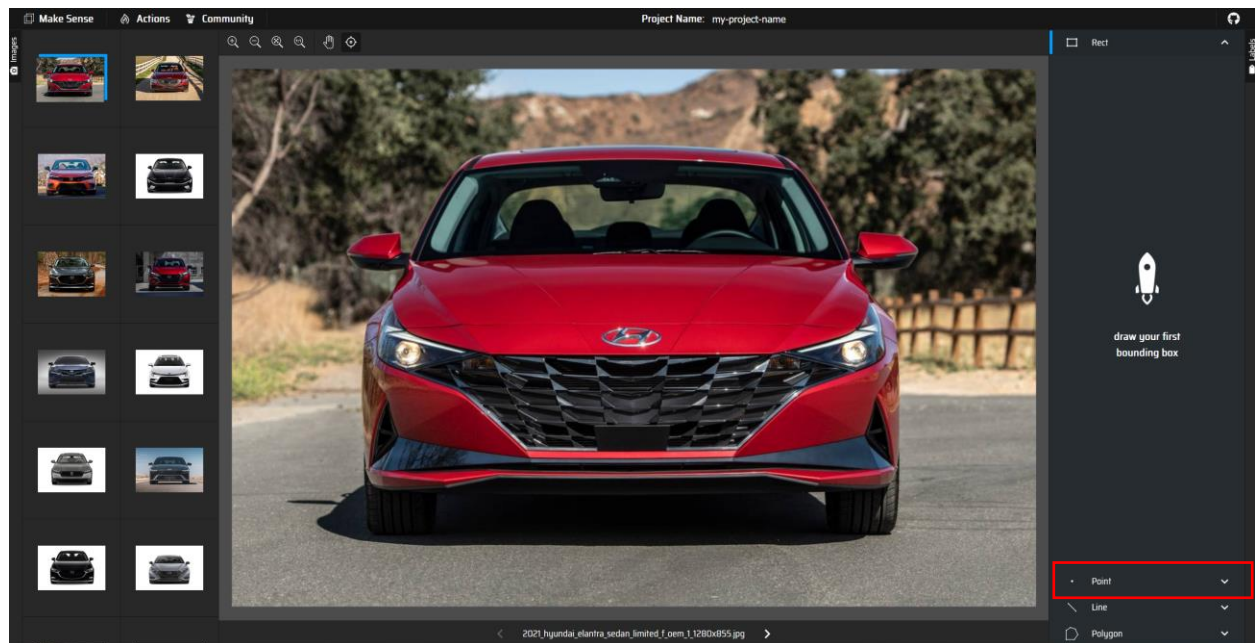
- To draw a bounding box, click on a point and drag your cursor to create the bounding box as shown below:



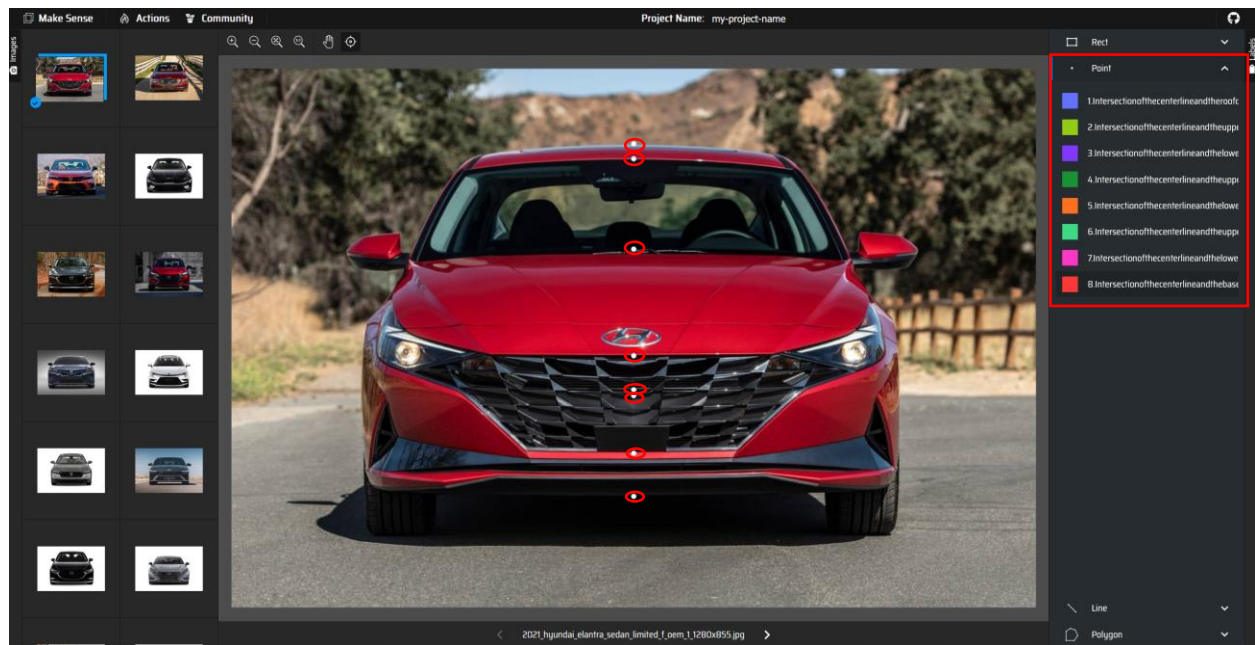
- Then, assign a label to the bounding box. In this case, select **“Bounding Box”** from the drop-down labels provided in the .txt file



- To label points, select the “**Point**” functionality, as shown below:



- Next, start labelling the points on the image and assign each point the appropriate label

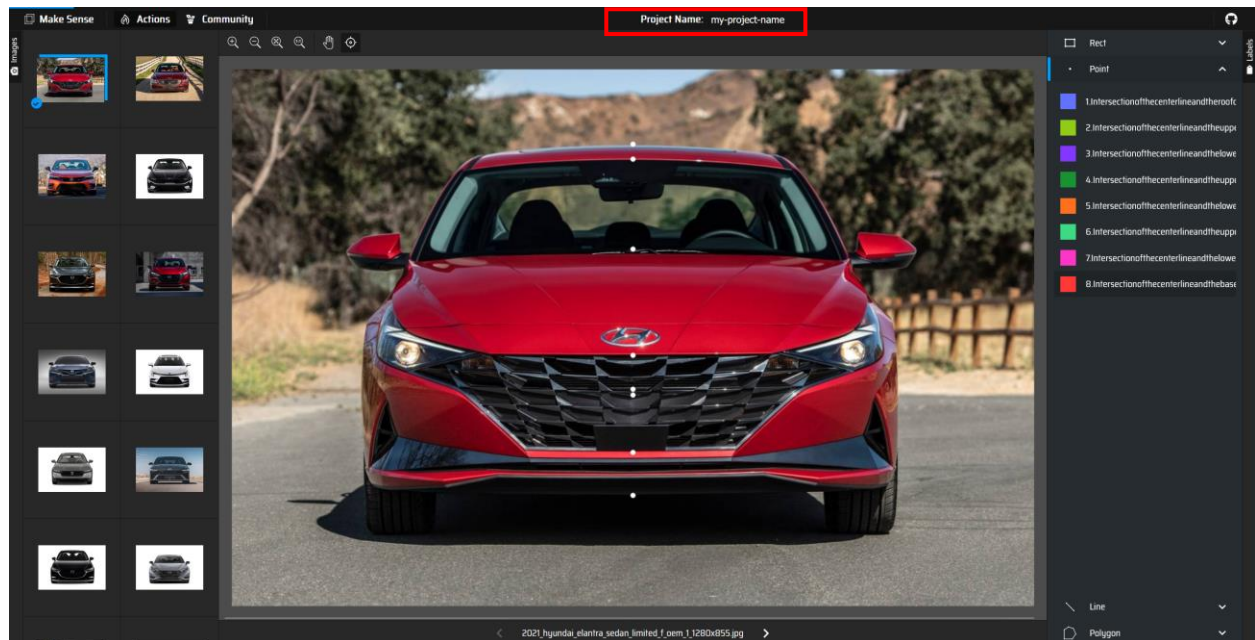


- Continue labelling until all 50 design points have been labelled

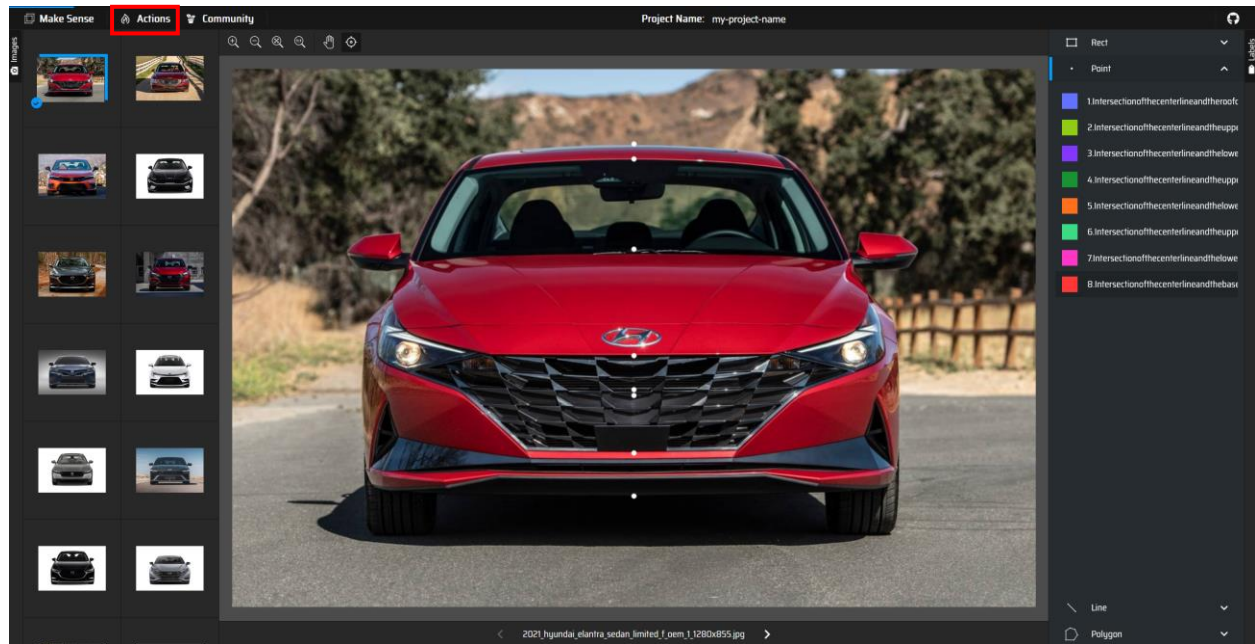
Repeat the process of labelling bounding boxes and points for all the uploaded images

7. Download Annotations

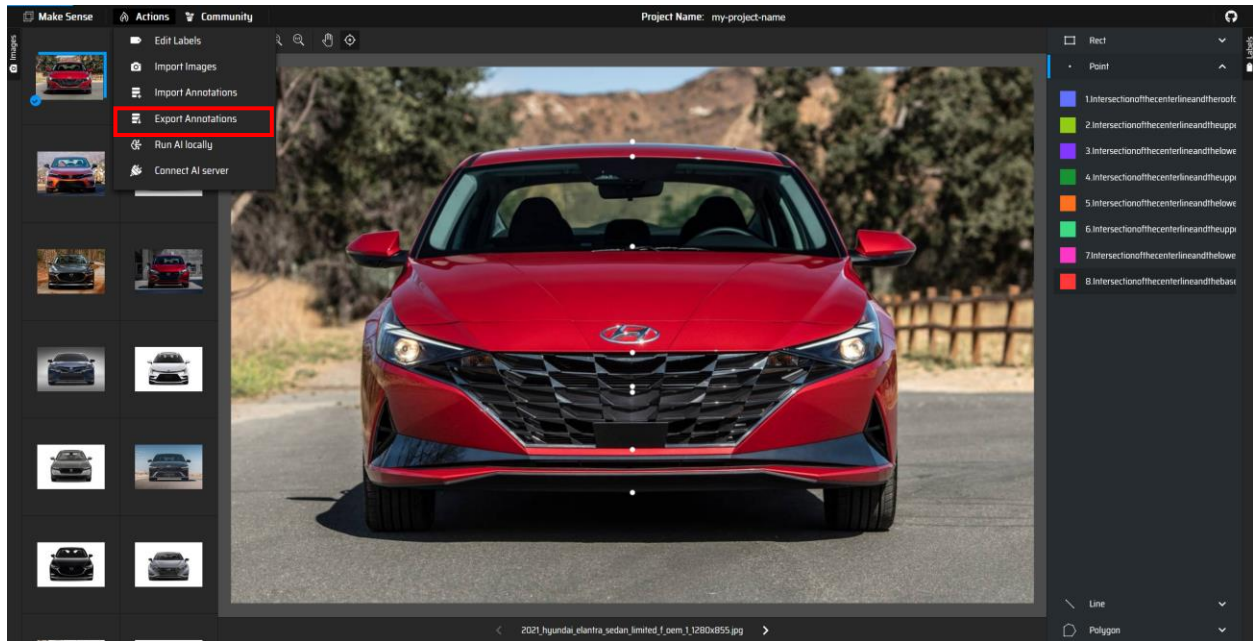
- After annotating all images, click on “**Project Name:**” to edit and customize your project name



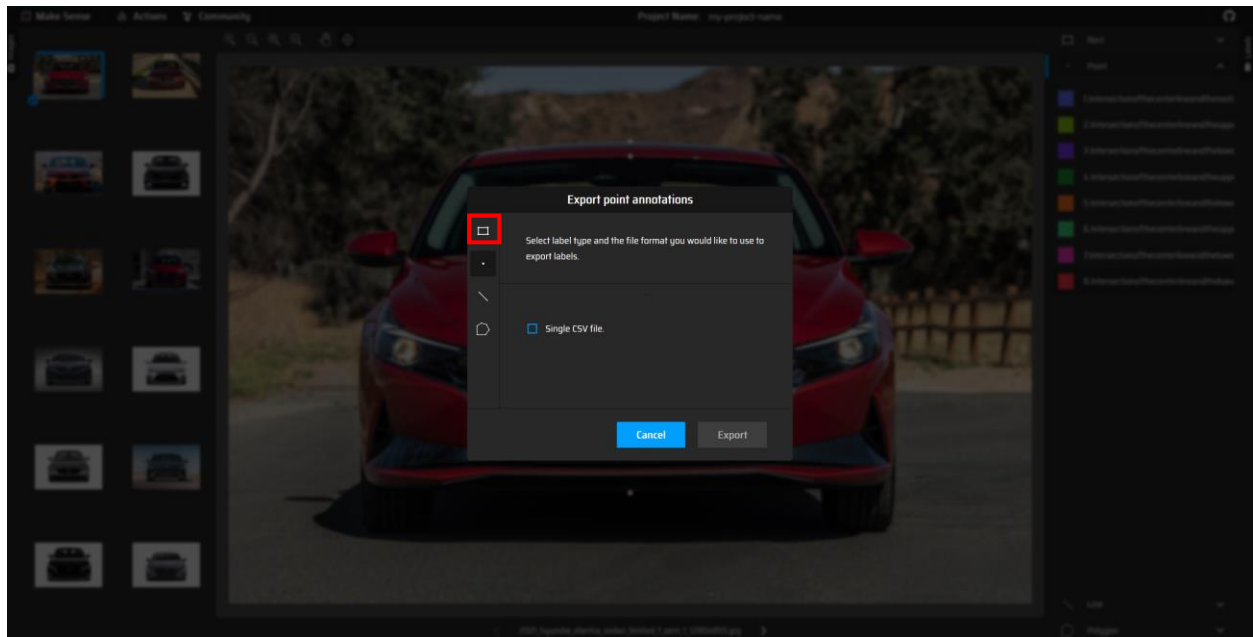
- Then, click on **“Actions”** button

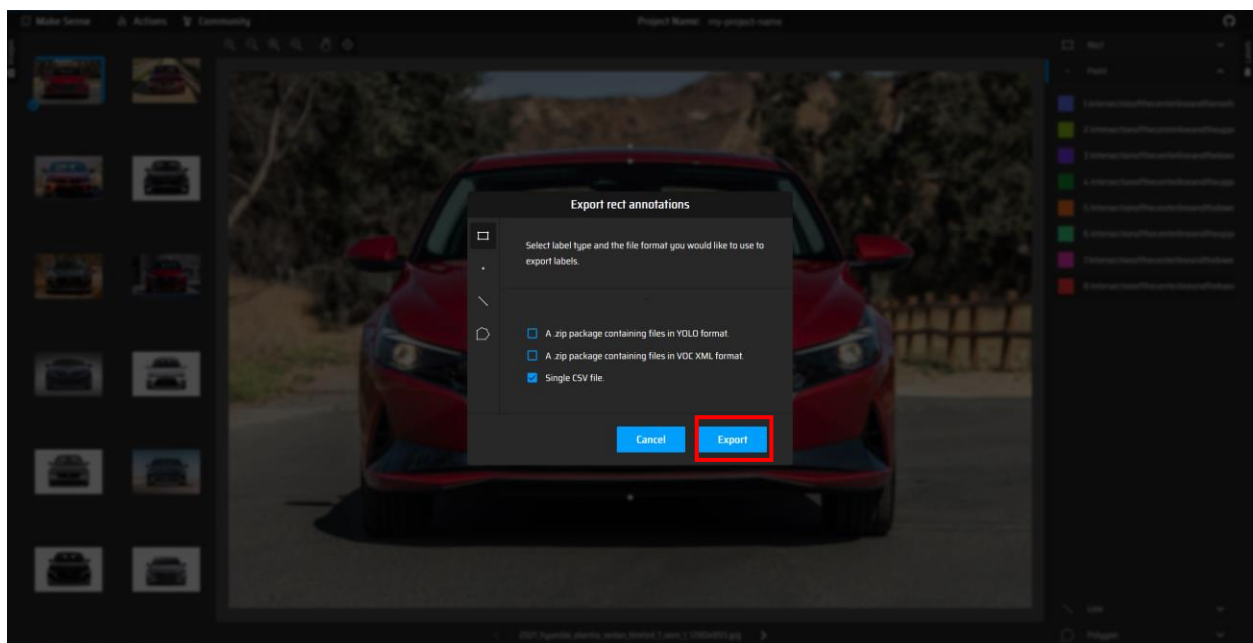
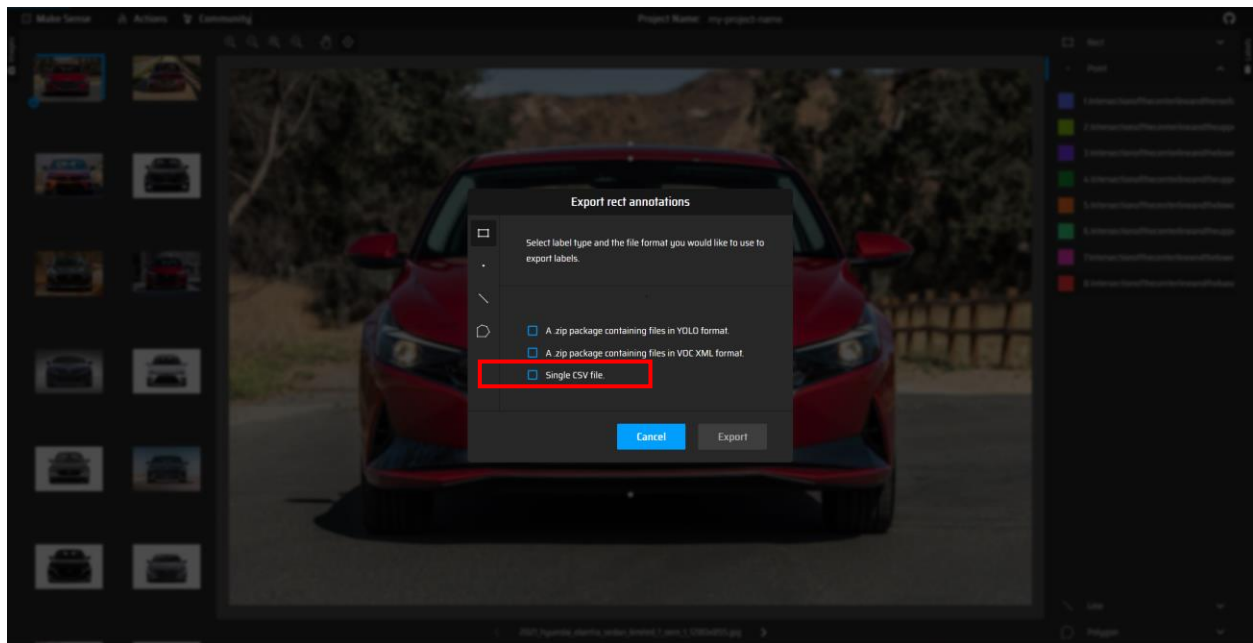


- Next, click on **"Export Annotations"**

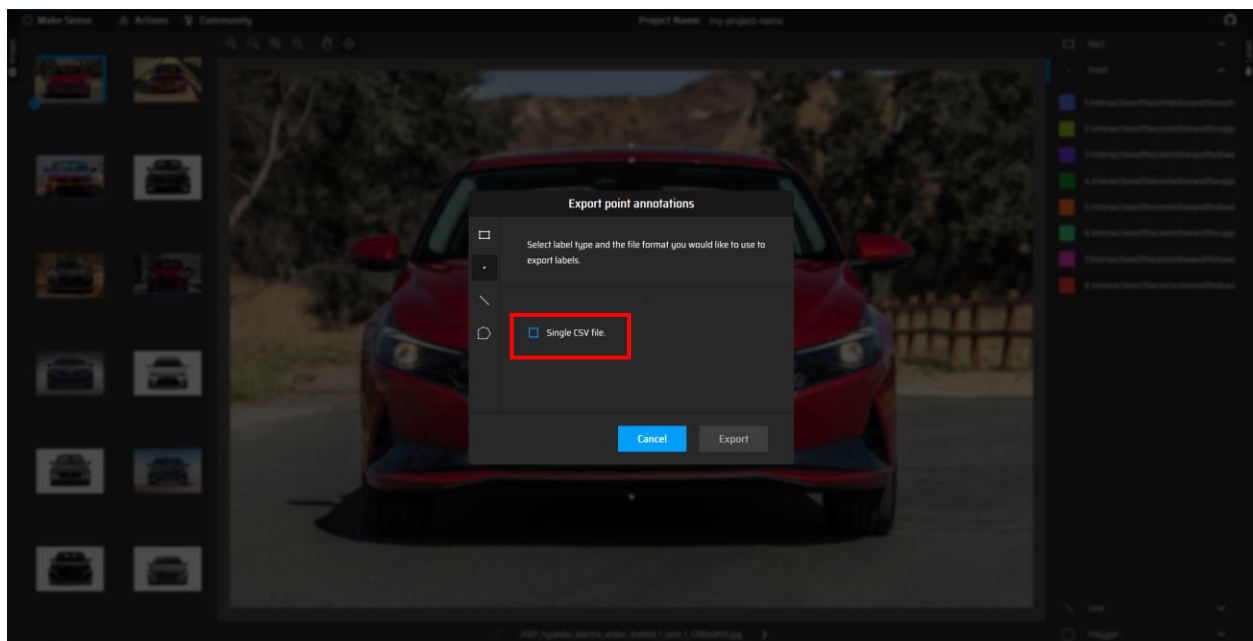
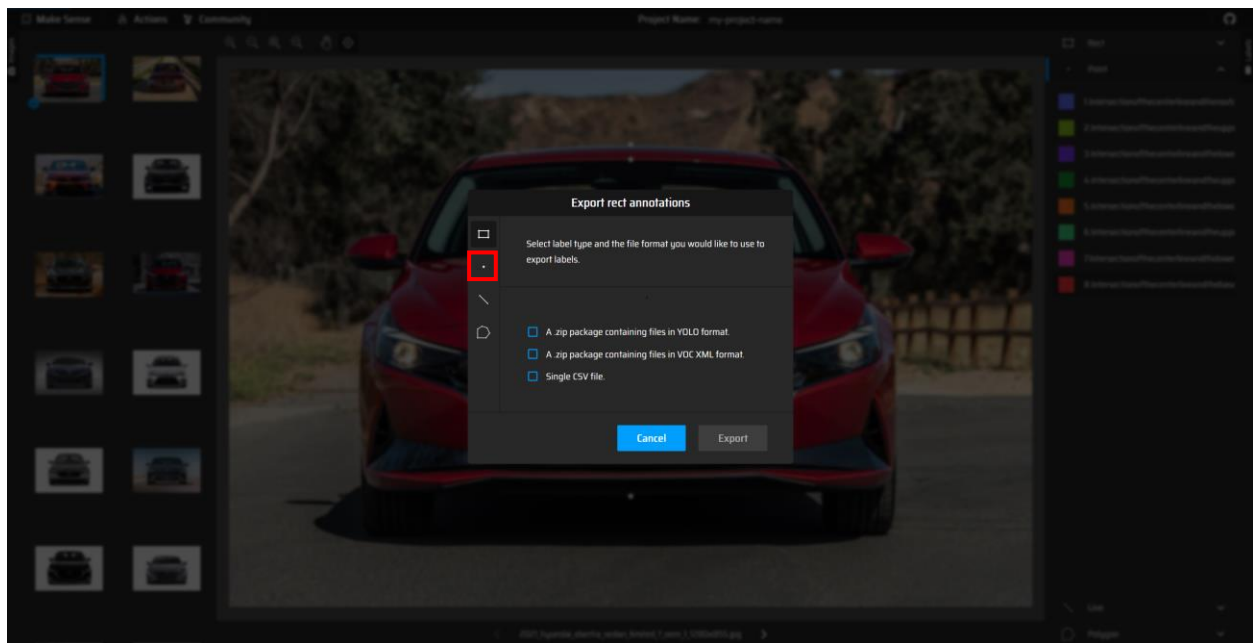


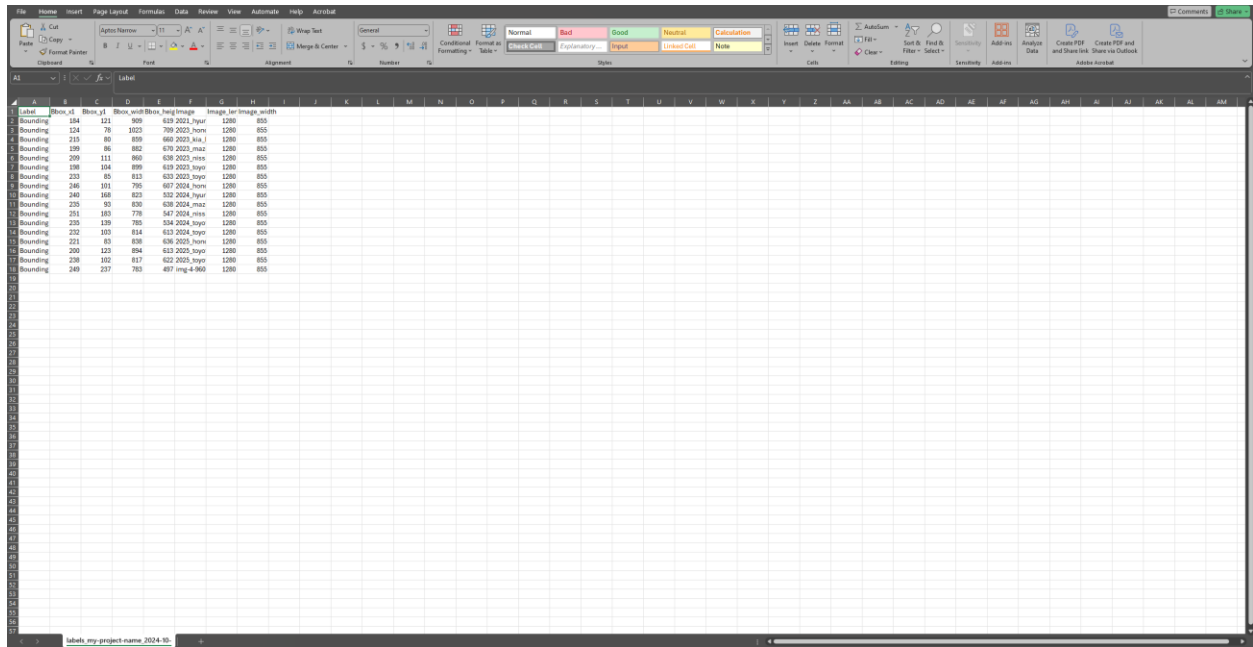
- Choose your desired label type and file format for exporting the labels (e.g., JSON, XML, CSV, or COCO) based on your project needs.
- For this use case, first select the Rectangle box option to export the bounding box annotations as a **“Single CSV file”**





- Next, select the Point option, to export the annotations as a **“Single CSV file”**





- If necessary, re-upload images to makesense.ai and refine annotations as needed.

10. Use Annotations for Your Project

- Integrate the annotated data into your project (e.g., machine learning models, image analysis).
- Ensure that the format of annotations aligns with your project requirements.