# Training an Object Detection Model on Roboflow

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| Steps | Actions | Remarks |
| 1 | Search for Roboflow in your browser and open the Roboflow website. | Opens the Roboflow platform. |
| 2 | Click the “Sign in” button and log in with your Google account. | Ensures you are authenticated. |
| 3 | Enter your workspace name. Choose the “Public” plan and create your workspace. | Public plan is free to use. |
| 4 | Go to the “Projects” section. Click the “+ New Project” button in the top right corner. | Creates a new project workspace. |
| 5 | Fill in the project details: • Project Name: Enter your project name. • Annotation Group: Specify the annotation group. • Plan: Choose “Public” plan. • Project Type: Select “Object Detection.” • Click “Create Public Project.” | Sets up the object detection project. |
| 6 | You will be directed to the “Upload Data” page. Upload the images you want to use. | Images are the dataset for training. |
| 7 | Once uploaded, you can annotate your images: • Click the “Label Myself” button on the right side. • Click “Start Annotation.” • Use the bounding box tool to mark objects (e.g., ships) in your images. | Annotation defines object locations. |
| 8 | After annotation, assign images to different sets: • Click the train icon in the top right corner (“Train”). • Move images to “Validation” and “Test” sets as needed. • Ensure at least 10 images are distributed among sets. | Helps in model training evaluation. |
| 9 | Go back to the annotation page. Click the “Add Image to Dataset” button on the right. Then click “Add Image.” | Adds additional images to the dataset. |
| 10 | To train your model: • Click the “Train” button. • Wait for the training process to complete. | Model learns from the dataset. |
| 11 | To deploy the model: • Click the deployment icon. • Choose “Detect, Count, and Visualize” as the model type. • Your trained model will now be ready. | Deployment makes the model usable. |
| 12 | To test the workflow: • Upload a new image. • Optionally enable the “Debug” option. • Click the “Test Workflow” button. | Validates the model performance. |
| 13 | You will see the output of your object detection model, with detected objects highlighted in the image. | Shows final detection results. |