

Image Data

Image Rotation

Each image in the dataset is randomly rotated by up to 10 degrees. This transformation introduces variability into the dataset, allowing the model to become invariant to slight rotations. It helps prevent overfitting by providing a more robust training set that simulates different orientations of the same object.

Random Resized Crop

A random resized crop of size (128, 128) is applied to each image. The cropping scale is set between 0.8 and 1.0 of the original image dimensions. This transformation randomly selects a portion of the image, resizes it to (128, 128), and retains important features while discarding irrelevant background. It aids in focusing the model on different parts of the images and improves generalization by providing multiple views of the same object at varying scales.