

Classification

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```
labels = []

for _, row in batch_data.iterrows():
    image_path = f"/kaggle/input/augmented-forest/
    image = cv2.imread(image_path)

    if image is None:
        print(f"Warning: Missing image at {image.
        continue

    image = cv2.resize(image, self.img_size)
    image = image / 255.0 # Normalize
    images.append(image)
    labels.append(1 if row['label'] == 'forested

if not images:
    return np.zeros((self.batch_size, *self.img_s

images = np.array(images, dtype=np.float32)
labels = np.array(labels, dtype=np.int32)

if self.augment:
    images = next(self.datagen.flow(images, batch

return images, labels

def on_epoch_end(self):
    if self.shuffle:
        self.dataframe = self.dataframe.sample(frac=
```

+ Code

+ Markdown

[54]:

```
train_generator = ImageGenerator(train_data, augment=True)
test_generator = ImageGenerator(test_data, augment=False)

# Sanity check: Visualize a batch
sample_images, sample_labels = train_generator[0]
print(f"Batch shape: {sample_images.shape}")
print(f"Labels: {sample_labels[:5]}")

plt.figure(figsize=(10, 5))
for i in range(3):
    plt.subplot(1, 3, i+1)
    plt.imshow(sample_images[i])
```



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