

# alzheimer-detection

October 14, 2025

```
[1]: import os
import matplotlib.pyplot as plt
from PIL import Image

# Define the base directories
test_dir = "/kaggle/input/alzheimer-disease/test-20251010T094612Z-1-001/test"
train_dir = "/kaggle/input/alzheimer-disease/train-20251010T183510Z-1-001/train"

# Subfolders
subfolders = ["AD", "CN", "MCI"]

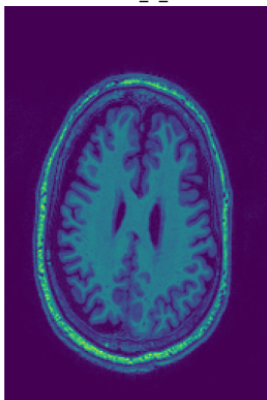
# Function to show 3 images from each subfolder
def show_images_from_dir(path, n=3):
    files = [f for f in os.listdir(path) if f.lower().endswith(('.png', '.jpg', '.jpeg'))]
    files = files[:n] # Take only the first 3 images
    plt.figure(figsize=(15, 5))
    for i, file in enumerate(files):
        img_path = os.path.join(path, file)
        img = Image.open(img_path)
        plt.subplot(1, len(files), i+1)
        plt.imshow(img)
        plt.axis("off")
        plt.title(file[:10])
    plt.show()

# Display images from test directory
for subfolder in subfolders:
    print(f"{subfolder} (Test)")
    show_images_from_dir(os.path.join(test_dir, subfolder))

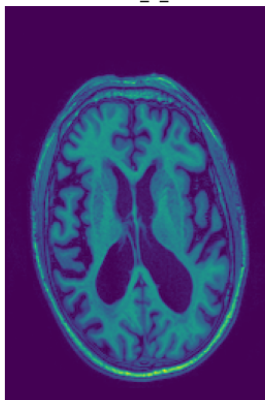
# Display images from train directory
for subfolder in subfolders:
    print(f"{subfolder} (Train)")
    show_images_from_dir(os.path.join(train_dir, subfolder))
```

AD (Test)

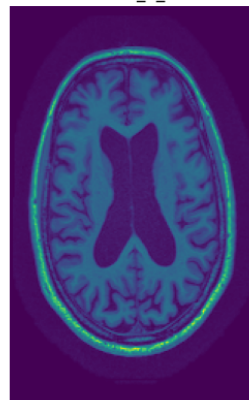
AD002\_S\_08



AD136\_S\_04

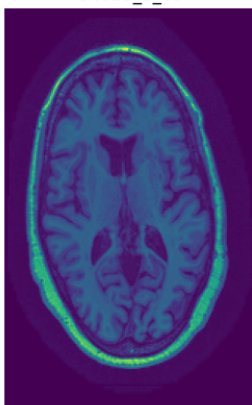


AD021\_S\_07

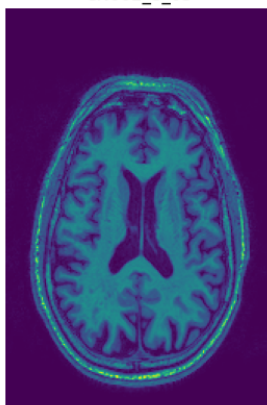


CN (Test)

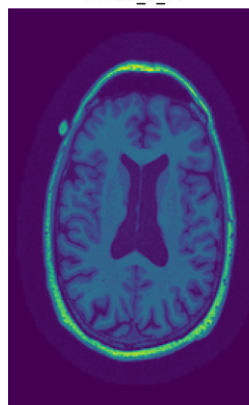
CN023\_S\_00



CN002\_S\_05

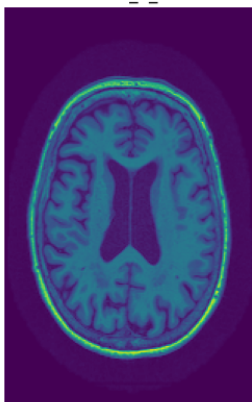


CN023\_S\_09

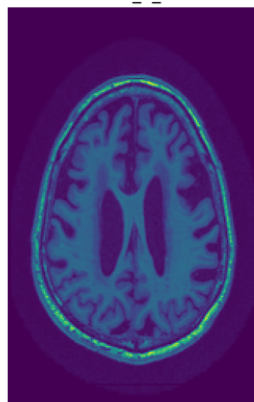


MCI (Test)

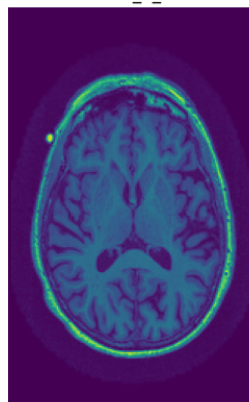
CI128\_S\_11



CI027\_S\_12

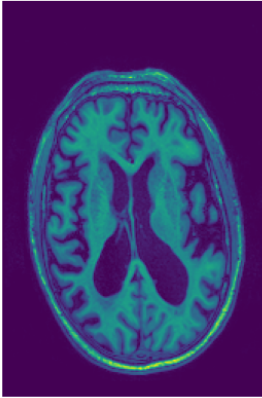


CI067\_S\_06

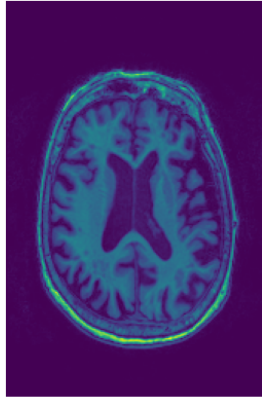


AD (Train)

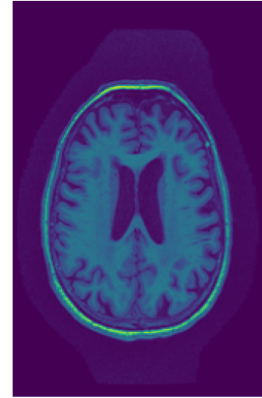
AD136\_S\_04



AD136\_S\_02

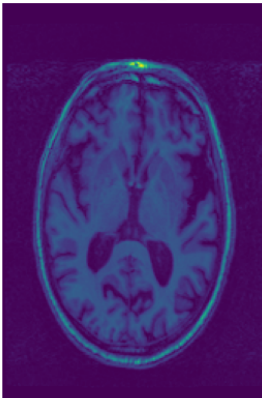


AD007\_S\_13

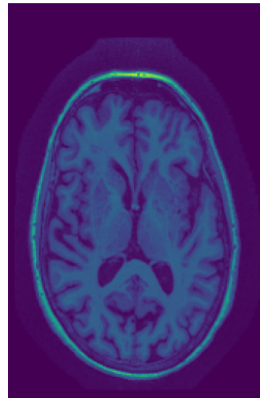


CN (Train)

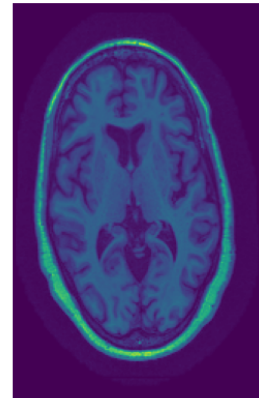
CN018\_S\_03



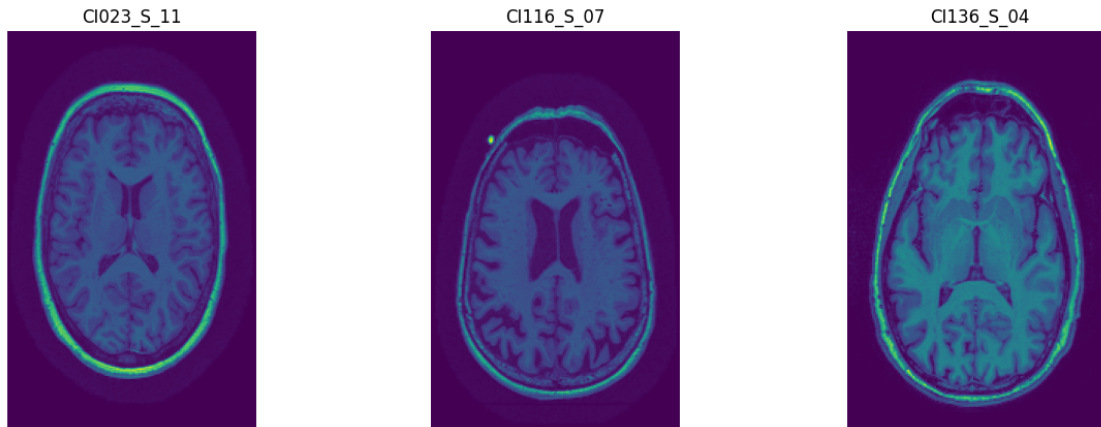
CN126\_S\_06



CN023\_S\_00



MCI (Train)



```
[2]: import tensorflow as tf

# Detect and list GPUs
gpus = tf.config.list_physical_devices('GPU')
print("Number of GPUs available:", len(gpus))
for gpu in gpus:
    print(gpu)

# Enable both T4 GPUs
if len(gpus) > 1:
    try:
        tf.config.experimental.set_visible_devices(gpus, 'GPU')
        print(" Both T4 GPUs enabled")
    except RuntimeError as e:
        print("GPU setup error:", e)
else:
    print(" Only one GPU available")
```

```
2025-10-10 19:24:38.019680: E
external/local_xla/xla/stream_executor/cuda/cuda_fft.cc:477] Unable to register
cuFFT factory: Attempting to register factory for plugin cuFFT when one has
already been registered
WARNING: All log messages before absl::InitializeLog() is called are written to
STDERR
E0000 00:00:1760124278.268255      19 cuda_dnn.cc:8310] Unable to register cuDNN
factory: Attempting to register factory for plugin cuDNN when one has already
been registered
E0000 00:00:1760124278.332699      19 cuda_blas.cc:1418] Unable to register
cuBLAS factory: Attempting to register factory for plugin cuBLAS when one has
already been registered

Number of GPUs available: 2
PhysicalDevice(name='/physical_device:GPU:0', device_type='GPU')
```

```
PhysicalDevice(name='/physical_device:GPU:1', device_type='GPU')
Both T4 GPUs enabled
```

```
[3]: import os
import numpy as np
from PIL import Image
import matplotlib.pyplot as plt
from scipy import ndimage
from collections import defaultdict
import torch # For potential tensor operations, though minimal use here
import random # For augmentation probe

# Set bold fonts for all plots
plt.rcParams['font.weight'] = 'bold'
plt.rcParams['axes.labelweight'] = 'bold'
plt.rcParams['axes.titleweight'] = 'bold'

# Define base directories
test_dir = "/kaggle/input/alzheimer-disease/test-20251010T094612Z-1-001/test"
train_dir = "/kaggle/input/alzheimer-disease/train-20251010T183510Z-1-001/train"
subfolders = ["AD", "CN", "MCI"]

# Helper function to get image paths for a directory and subfolder
def get_image_paths(base_dir, subfolder):
    folder_path = os.path.join(base_dir, subfolder)
    return [os.path.join(folder_path, f) for f in os.listdir(folder_path) if f.
lower().endswith(('.png', '.jpg', '.jpeg'))]
```

```
[4]: # Function to compute stats and histograms for a list of image paths
def compute_color_stats(image_paths, class_name, dataset_type):
    # For histograms (256 bins per channel)
    rgb_hist = [np.zeros(256) for _ in range(3)] # R, G, B
    hsv_hist = [np.zeros(256) for _ in range(3)] # H, S, V
    per_image_rgb_means = []
    per_image_rgb_stds = []
    per_image_brightness = [] # V mean
    per_image_contrast = [] # V std
    saturation_clipping_frac = 0.0
    total_pixels = 0

    for img_path in image_paths:
        img = np.array(Image.open(img_path).convert('RGB'))
        h, w, _ = img.shape
        pixels = h * w
        total_pixels += pixels

    # RGB stats
```

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    rgb_mean = np.mean(img, axis=(0,1))
    rgb_std = np.std(img, axis=(0,1))
    per_image_rgb_means.append(rgb_mean)
    per_image_rgb_stds.append(rgb_std)

    for ch in range(3):
        ch_hist, _ = np.histogram(img[..., ch], bins=256, range=(0, 255))
        rgb_hist[ch] += ch_hist

    # HSV (using PIL convert)
    hsv_img = np.array(Image.fromarray(img).convert('HSV')) # H:0-255, S:
↪0-255, V:0-255
    brightness = np.mean(hsv_img[..., 2])
    contrast = np.std(hsv_img[..., 2])
    per_image_brightness.append(brightness)
    per_image_contrast.append(contrast)

    for ch in range(3):
        ch_hist, _ = np.histogram(hsv_img[..., ch], bins=256, range=(0,
↪255))
        hsv_hist[ch] += ch_hist

    # Saturation clipping (pixels with S > 250)
    sat_clipped = np.sum(hsv_img[..., 1] > 250)
    saturation_clipping_frac += sat_clipped / pixels

    # Normalize histograms
    for ch in range(3):
        rgb_hist[ch] /= total_pixels
        hsv_hist[ch] /= total_pixels

    # Per-class mean/std (weighted)
    class_rgb_mean = np.mean(per_image_rgb_means, axis=0)
    class_rgb_std = np.mean(per_image_rgb_stds, axis=0)
    class_brightness_mean = np.mean(per_image_brightness)
    class_contrast_mean = np.mean(per_image_contrast)
    saturation_clipping_frac /= len(image_paths) # Average per image

    # Print summaries
    print(f"{dataset_type} - {class_name}: RGB Mean {class_rgb_mean}, Std
↪{class_rgb_std}")
    print(f"{dataset_type} - {class_name}: Brightness Mean
↪{class_brightness_mean}, Contrast Mean {class_contrast_mean}")
    print(f"{dataset_type} - {class_name}: Avg Saturation Clipping Fraction
↪{saturation_clipping_frac}")

    # Plot RGB Histogram

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plt.figure(figsize=(10, 5))
plt.plot(rgb_hist[0], color='red', label='R')
plt.plot(rgb_hist[1], color='green', label='G')
plt.plot(rgb_hist[2], color='blue', label='B')
plt.title(f'RGB Histogram - {dataset_type} {class_name}')
plt.xlabel('Intensity')
plt.ylabel('Normalized Frequency')
plt.legend()
plt.show()

# Plot HSV Histogram
plt.figure(figsize=(10, 5))
plt.plot(hsv_hist[0], color='red', label='H')
plt.plot(hsv_hist[1], color='green', label='S')
plt.plot(hsv_hist[2], color='blue', label='V')
plt.title(f'HSV Histogram - {dataset_type} {class_name}')
plt.xlabel('Value')
plt.ylabel('Normalized Frequency')
plt.legend()
plt.show()

# Plot per-image mean/std distributions (boxplots)
plt.figure(figsize=(10, 5))
plt.boxplot(np.array(per_image_rgb_means), labels=['R', 'G', 'B'])
plt.title(f'Per-Image RGB Means Distribution - {dataset_type} {class_name}')
plt.show()

plt.figure(figsize=(10, 5))
plt.boxplot(np.array(per_image_rgb_stds), labels=['R', 'G', 'B'])
plt.title(f'Per-Image RGB Stds Distribution - {dataset_type} {class_name}')
plt.show()

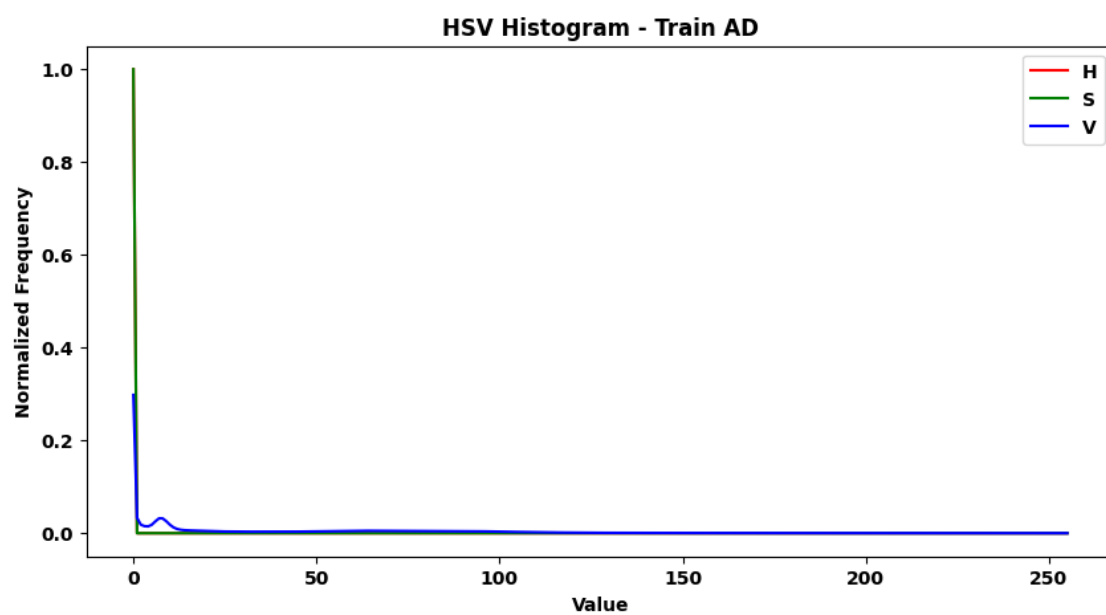
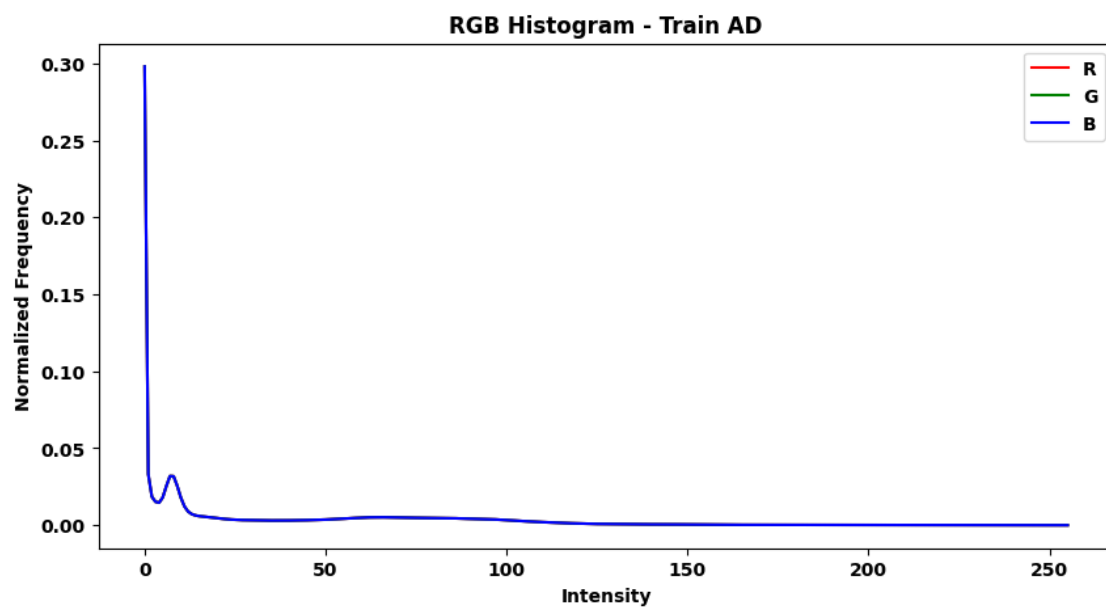
# Run for train and test
for dataset_type, base_dir in [("Train", train_dir), ("Test", test_dir)]:
    for sub in subfolders:
        paths = get_image_paths(base_dir, sub)
        compute_color_stats(paths, sub, dataset_type)

```

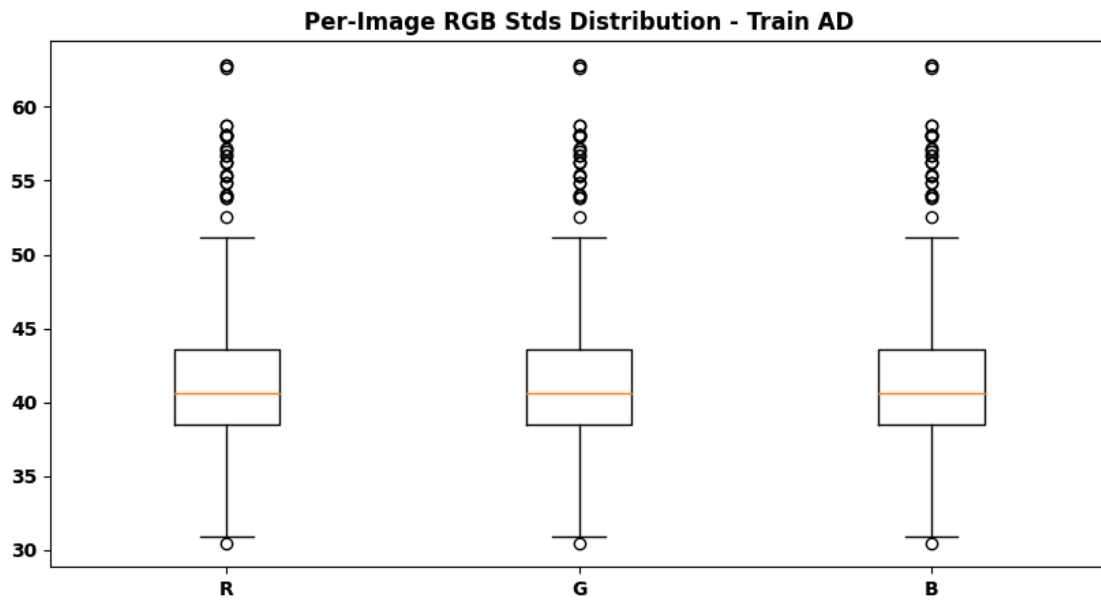
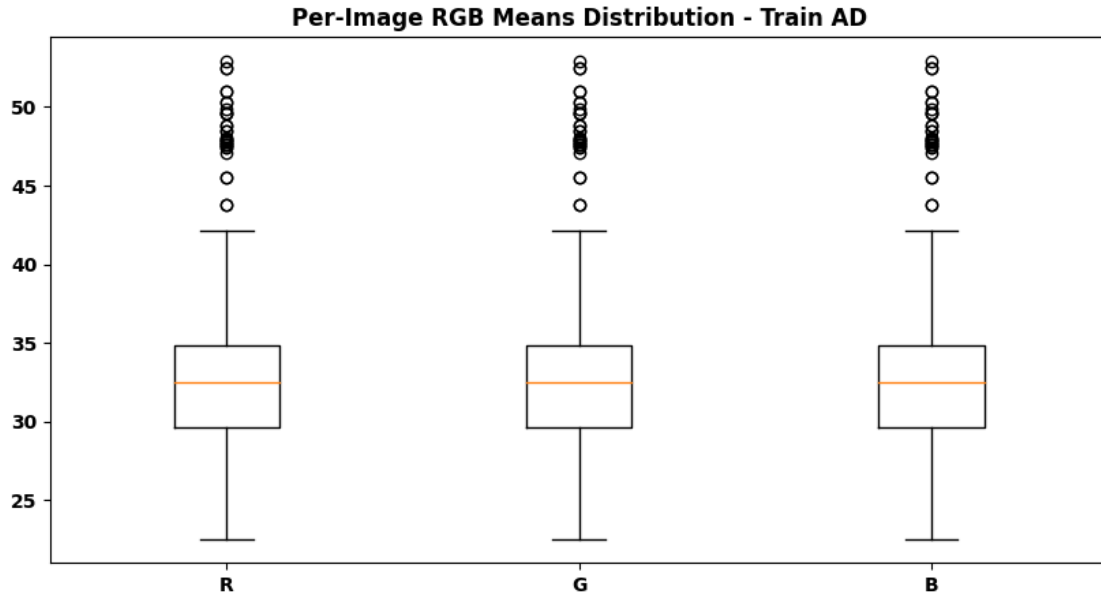
Train - AD: RGB Mean [32.61346806 32.61346806 32.61346806], Std [41.3103727 41.3103727 41.3103727]

Train - AD: Brightness Mean 32.61346806125148, Contrast Mean 41.3103726971172

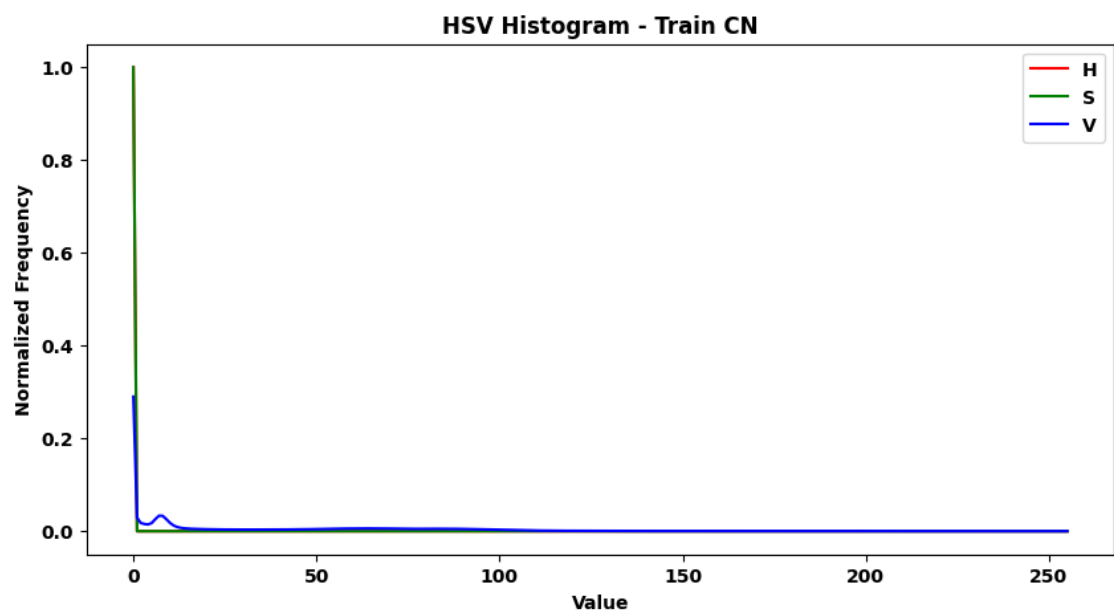
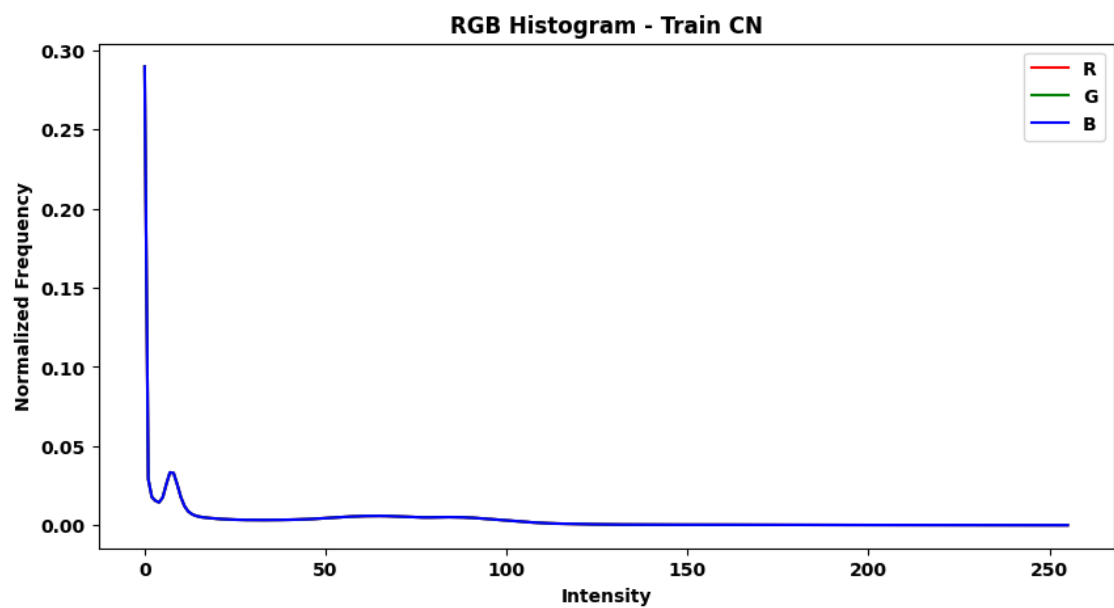
Train - AD: Avg Saturation Clipping Fraction 0.0

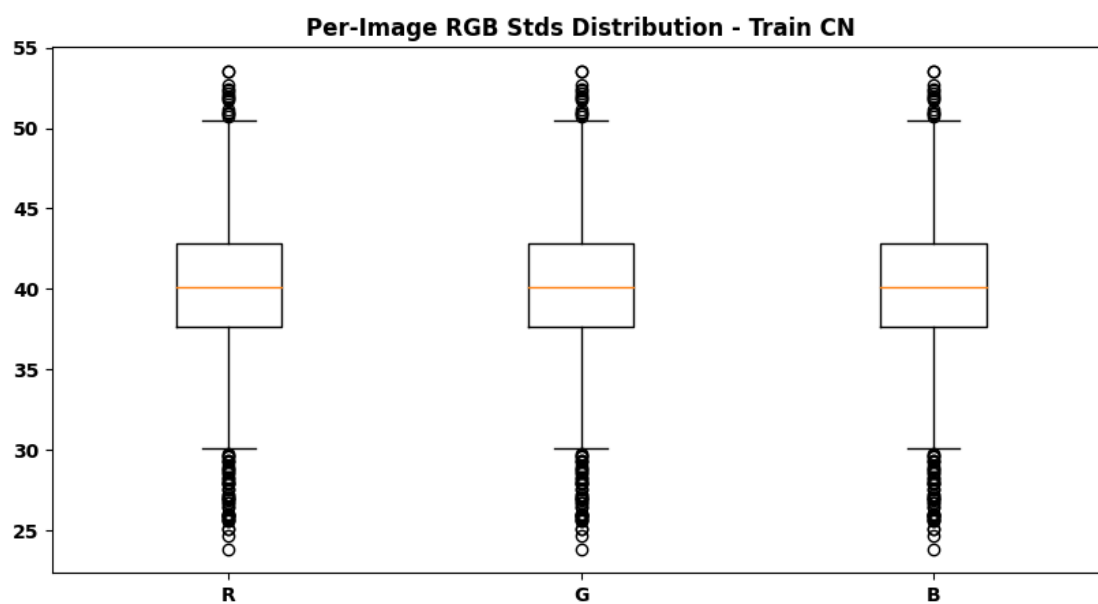
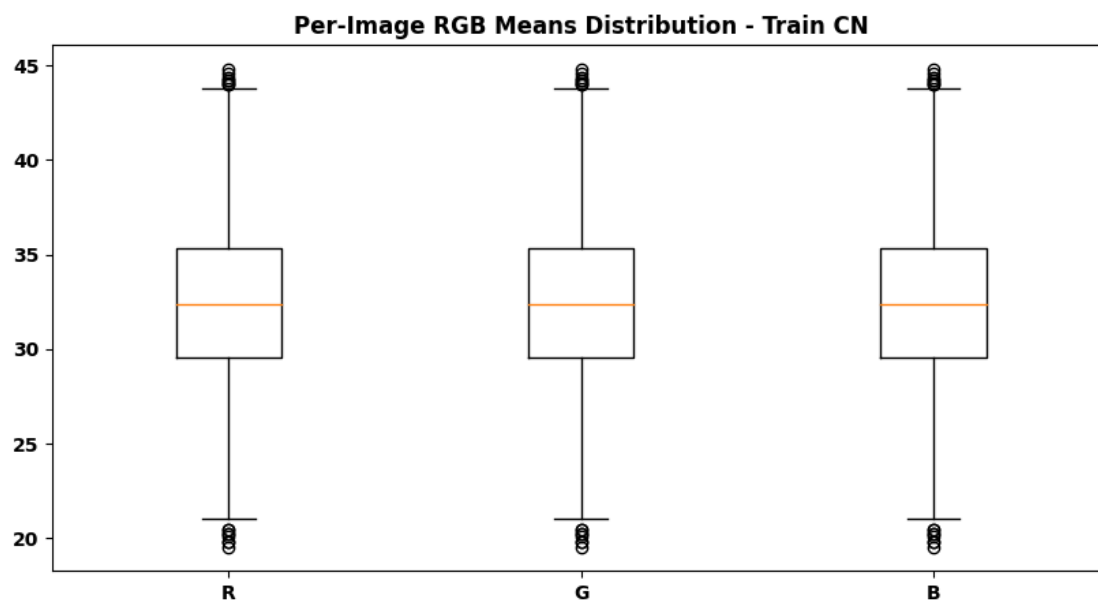






Train - CN: RGB Mean [32.45573519 32.45573519 32.45573519], Std [39.81537552 39.81537552 39.81537552]  
 Train - CN: Brightness Mean 32.45573518960173, Contrast Mean 39.815375524680924  
 Train - CN: Avg Saturation Clipping Fraction 0.0

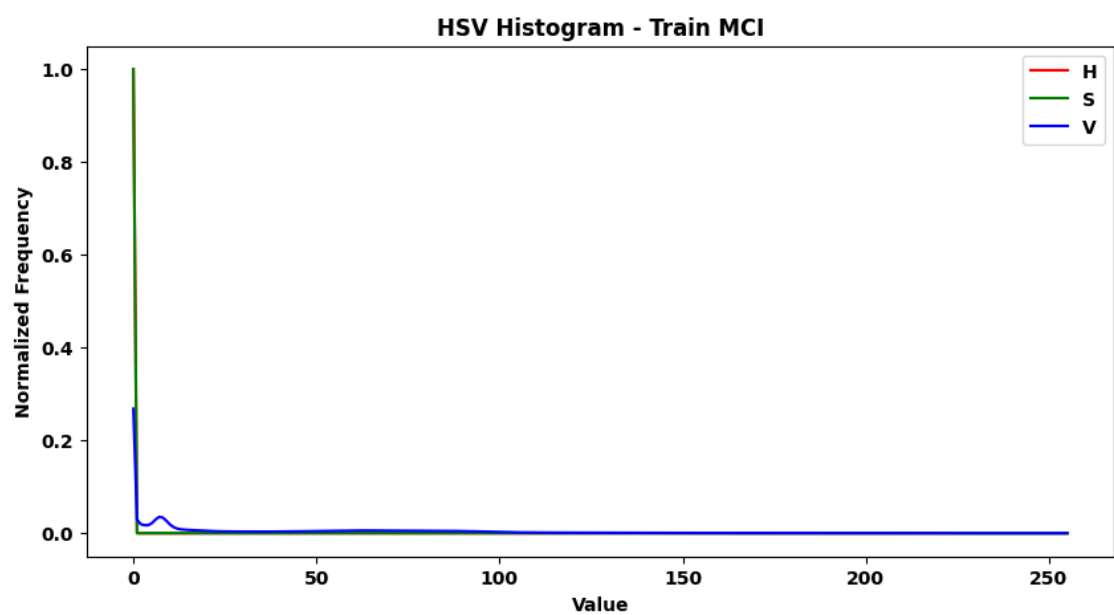
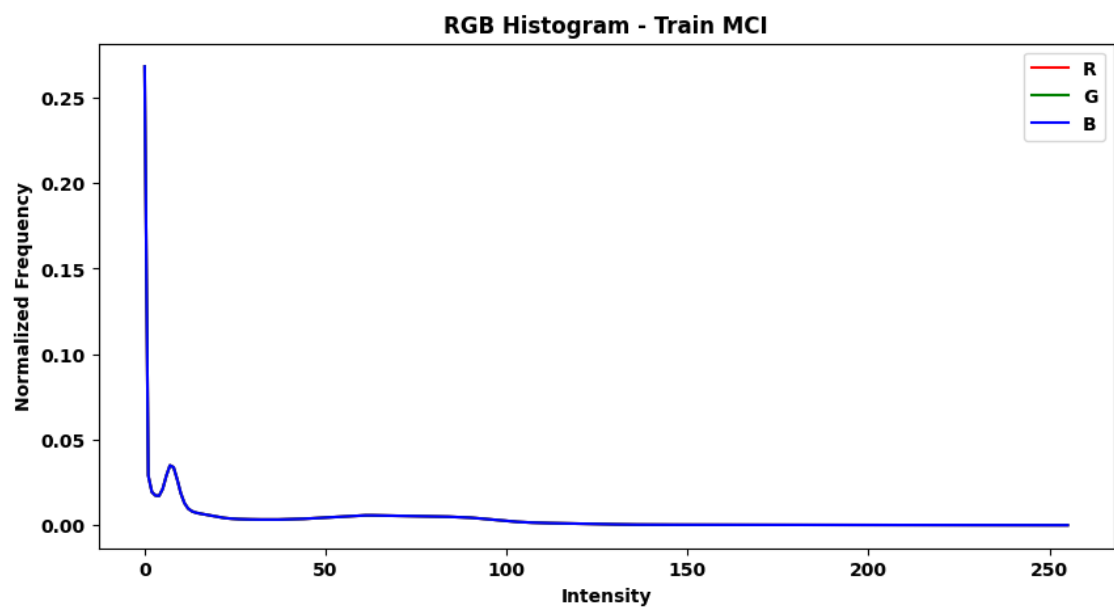


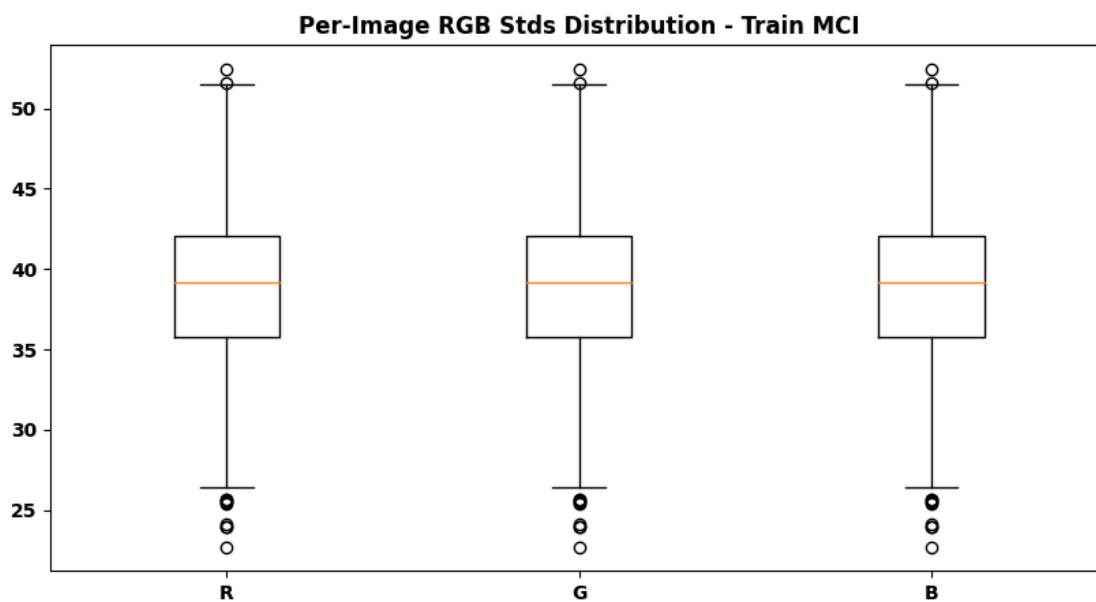
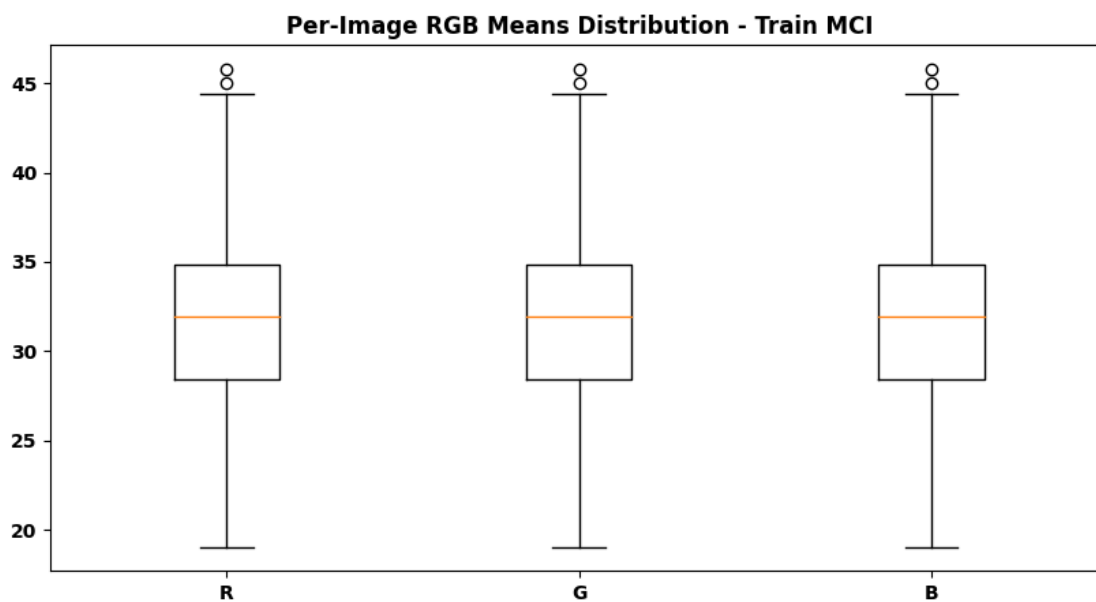


Train - MCI: RGB Mean [31.80549625 31.80549625 31.80549625], Std [38.97000707 38.97000707 38.97000707]

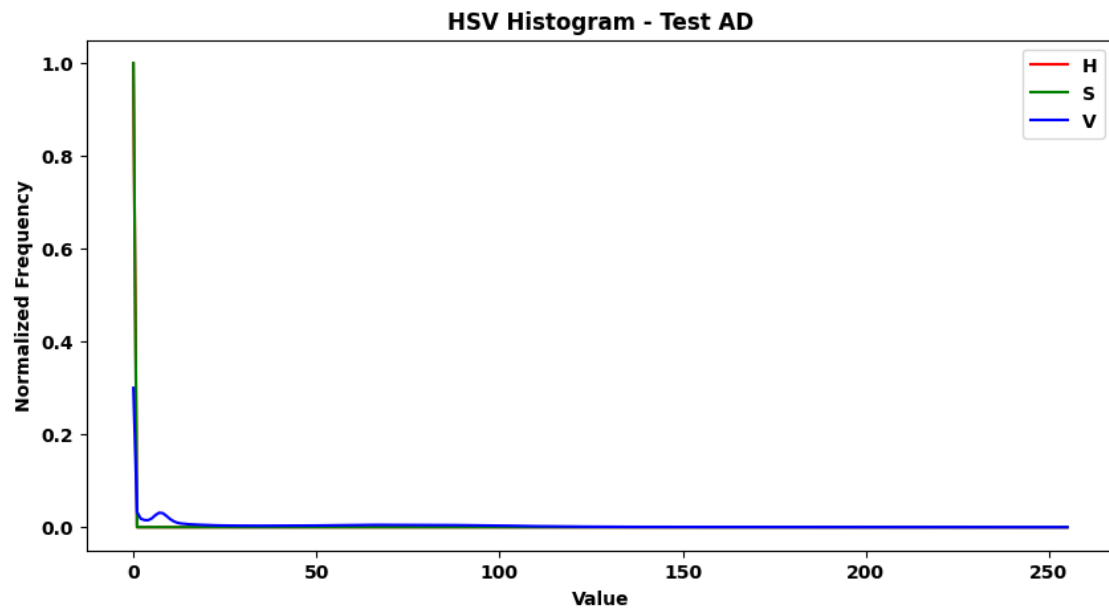
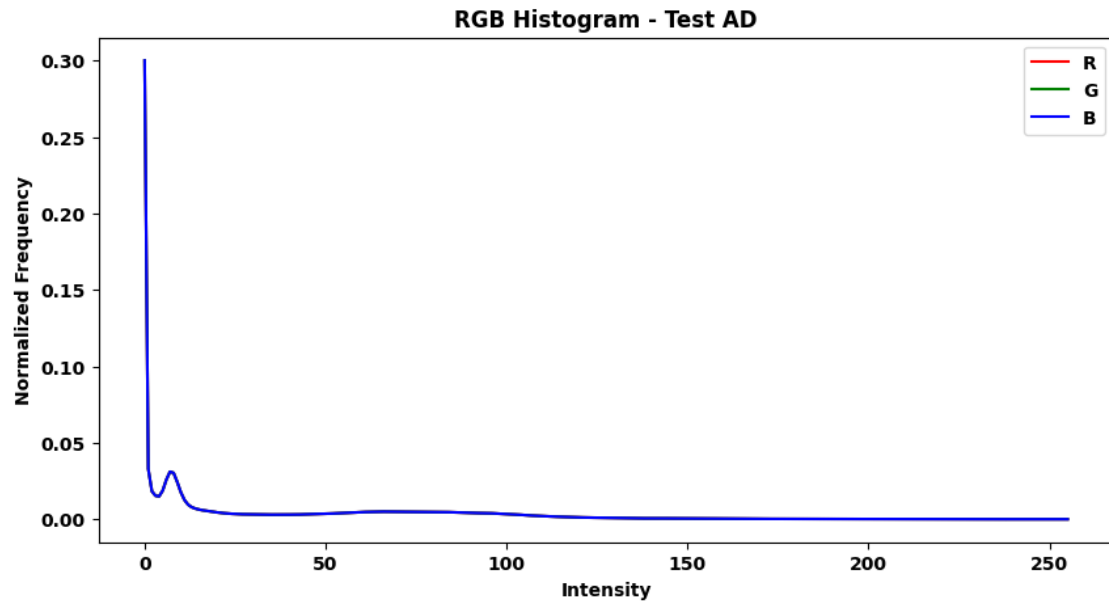
Train - MCI: Brightness Mean 31.805496254601, Contrast Mean 38.97000707295796

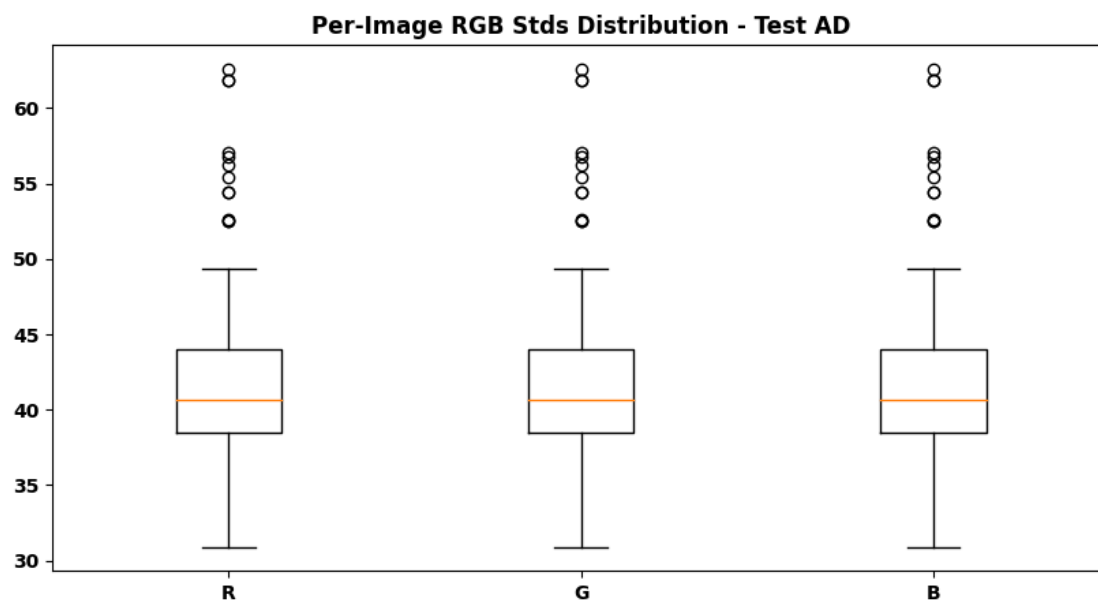
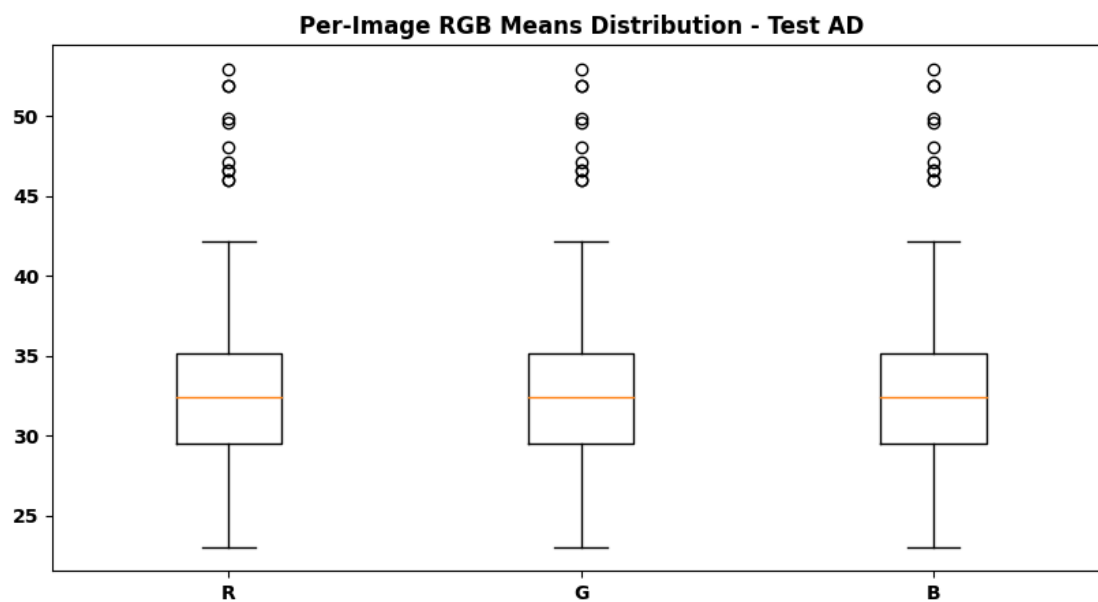
Train - MCI: Avg Saturation Clipping Fraction 0.0



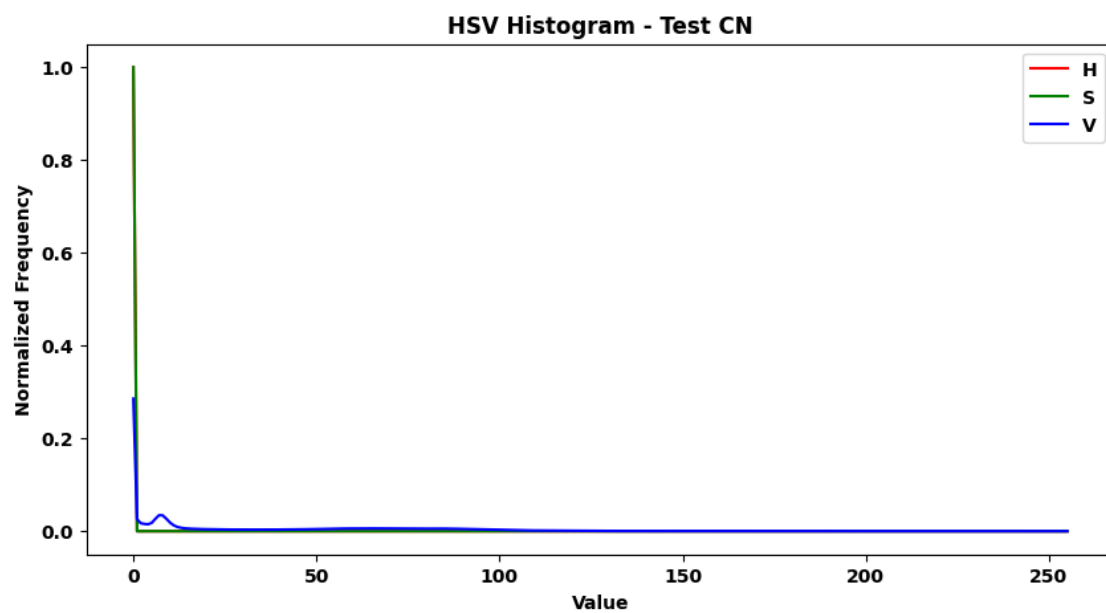
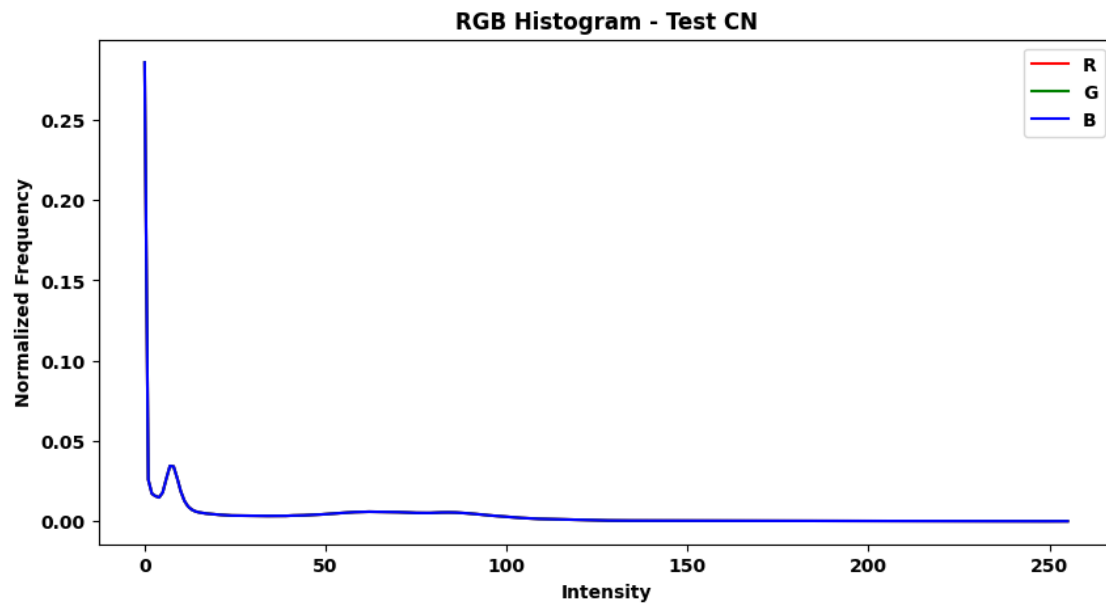


Test - AD: RGB Mean [32.82031287 32.82031287 32.82031287], Std [41.5914131 41.5914131 41.5914131]  
 Test - AD: Brightness Mean 32.82031286743174, Contrast Mean 41.5914131038512  
 Test - AD: Avg Saturation Clipping Fraction 0.0

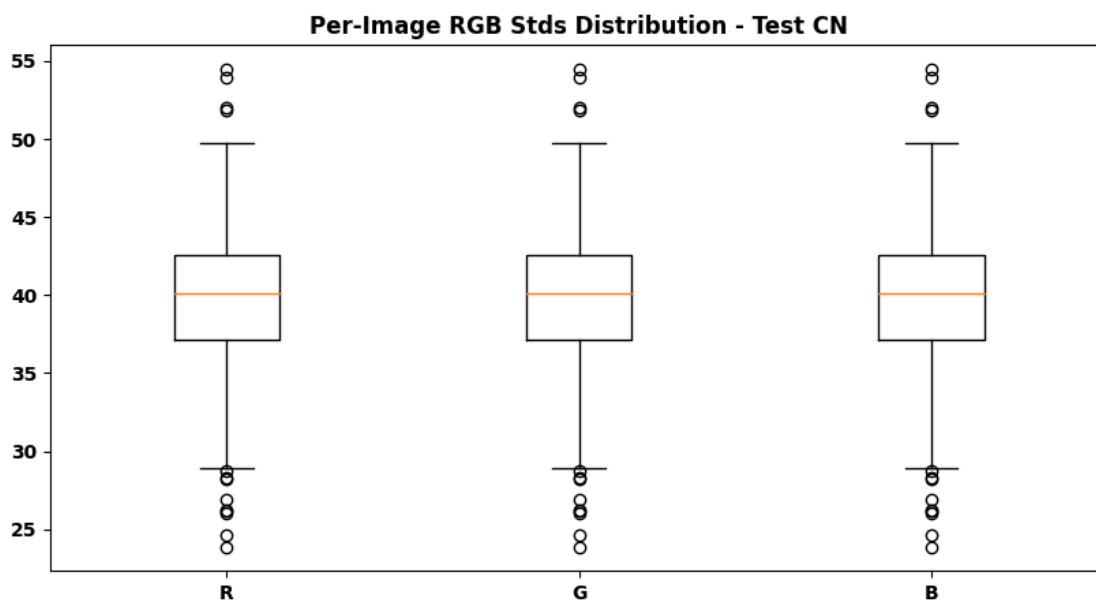
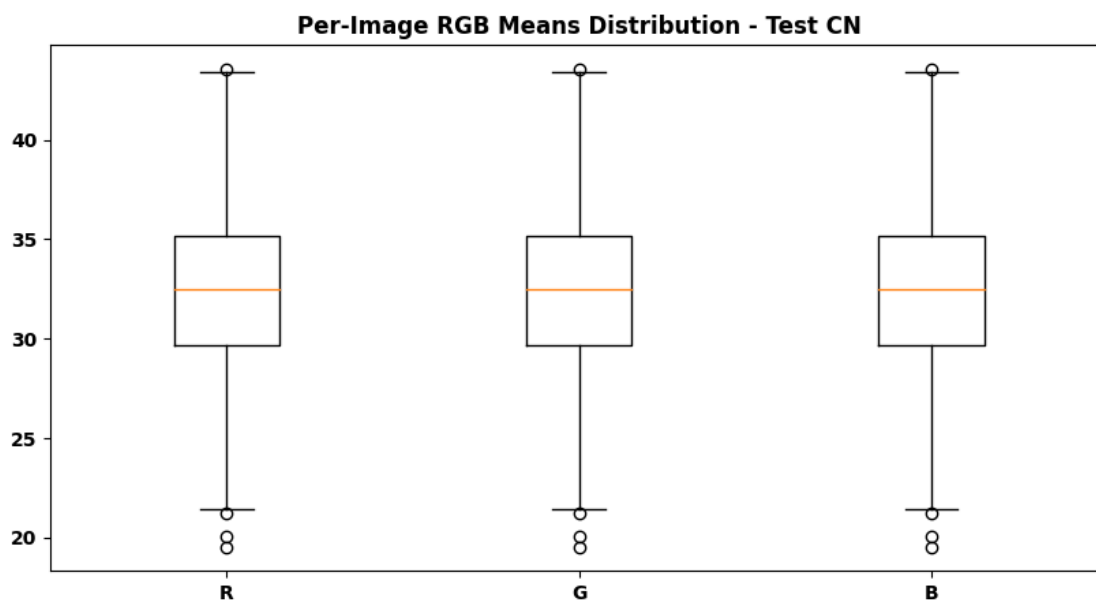




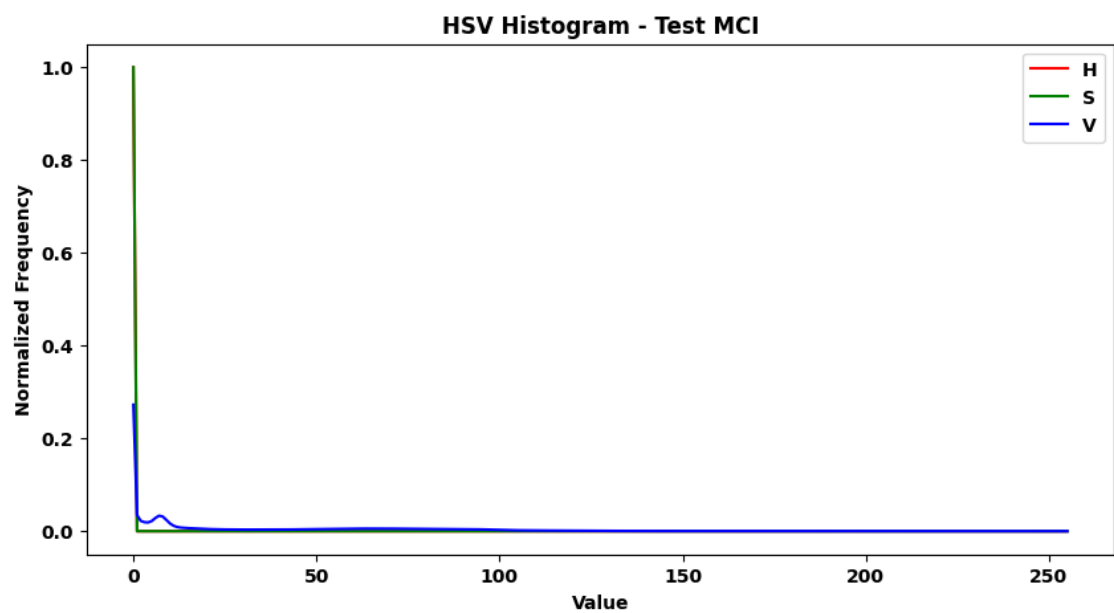
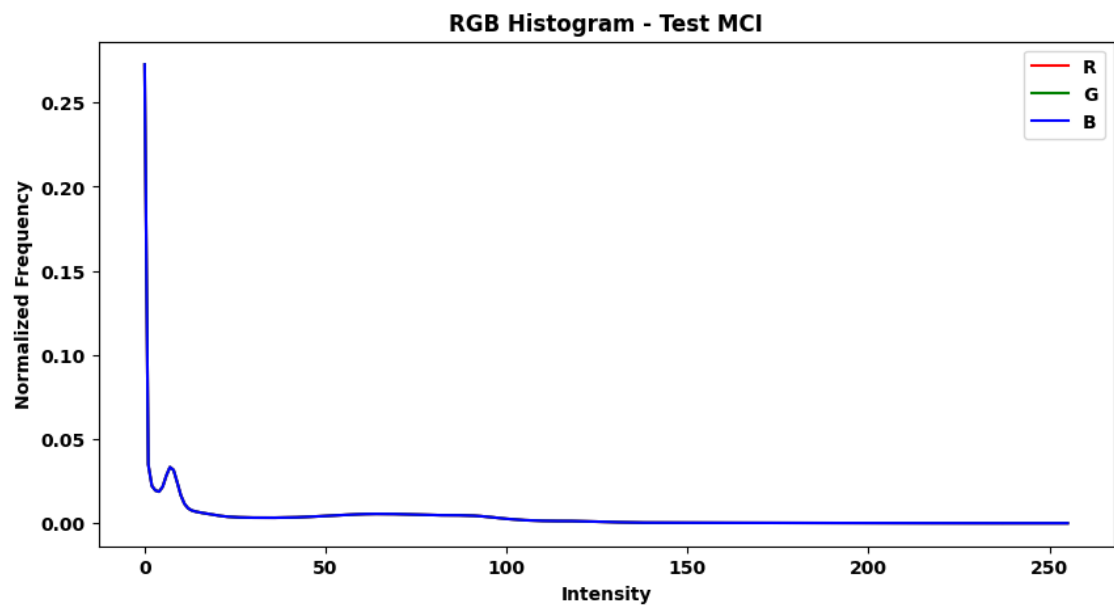
Test - CN: RGB Mean [32.50435488 32.50435488 32.50435488], Std [39.60195743 39.60195743 39.60195743]  
 Test - CN: Brightness Mean 32.50435487522047, Contrast Mean 39.601957426802976  
 Test - CN: Avg Saturation Clipping Fraction 0.0

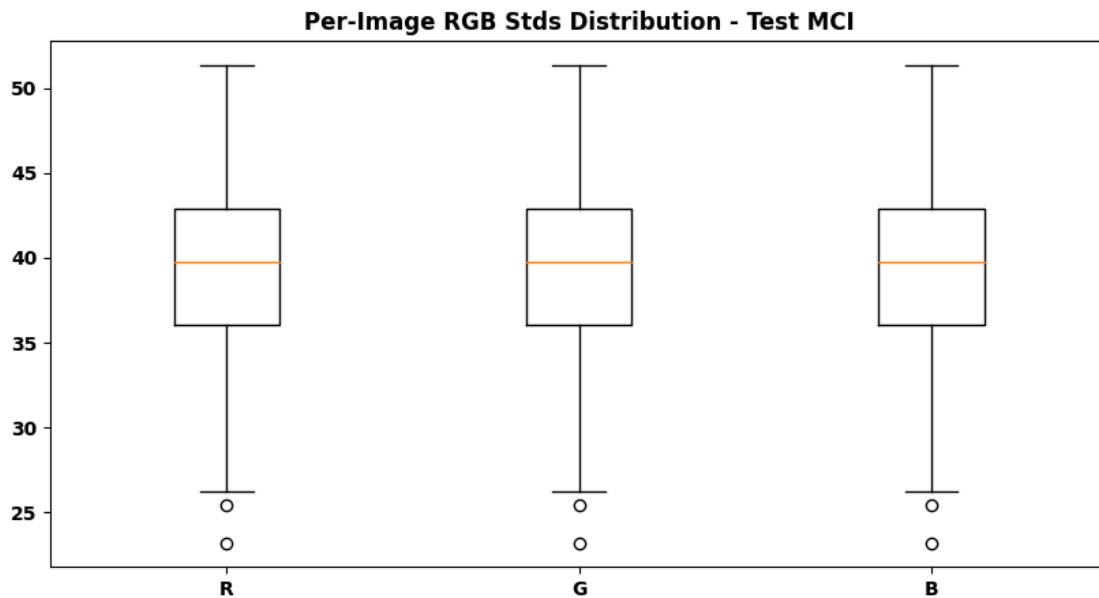
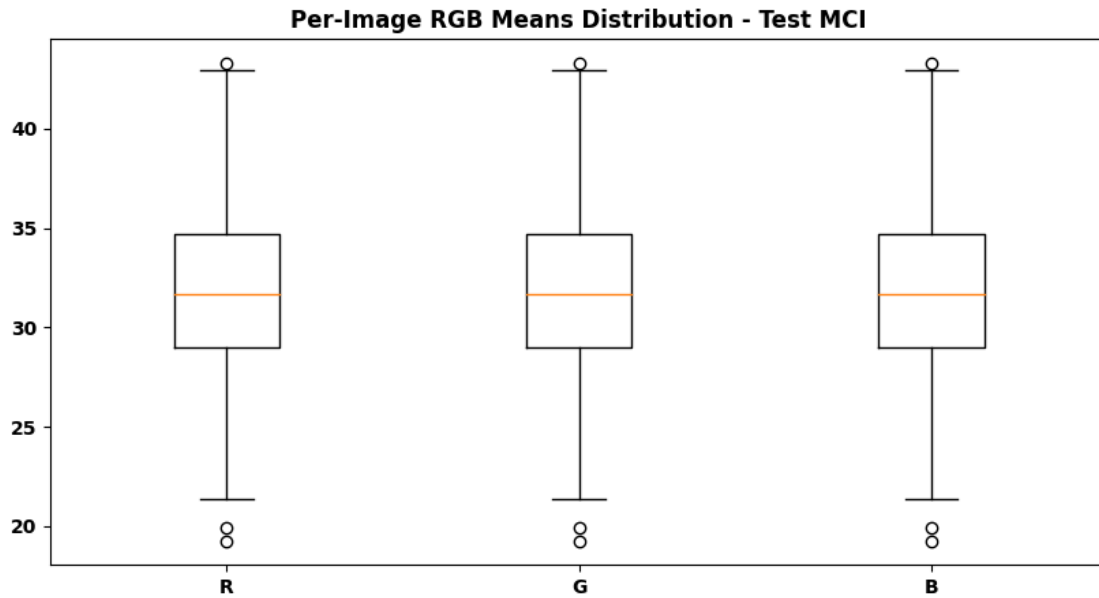






Test - MCI: RGB Mean [31.83111587 31.83111587 31.83111587], Std [39.36362054 39.36362054 39.36362054]  
 Test - MCI: Brightness Mean 31.831115868626625, Contrast Mean 39.36362054068896  
 Test - MCI: Avg Saturation Clipping Fraction 0.0





```
[5]: # Function to compute resolution and aspect ratio stats
def compute_resolution_stats(image_paths, class_name, dataset_type):
    resolutions = []
    aspect_ratios = []
    for img_path in image_paths:
        img = Image.open(img_path)
        w, h = img.size
```

```

        resolutions.append((w, h))
        aspect_ratios.append(w / h if h != 0 else 0)

    # Median resolution for strategy
    widths = [r[0] for r in resolutions]
    heights = [r[1] for r in resolutions]
    median_w = np.median(widths)
    median_h = np.median(heights)
    print(f"{dataset_type} - {class_name}: Median Resolution_
↪{median_w}x{median_h}, Mean Aspect Ratio {np.mean(aspect_ratios)}")

    # Suggest strategy
    print(f"Suggested Strategy for {class_name}: Resize to_
↪{median_w}x{median_h} with padding to preserve aspect ratio. Class-wise_
↪effects: If variances high, padding prevents distortion in {class_name}.")

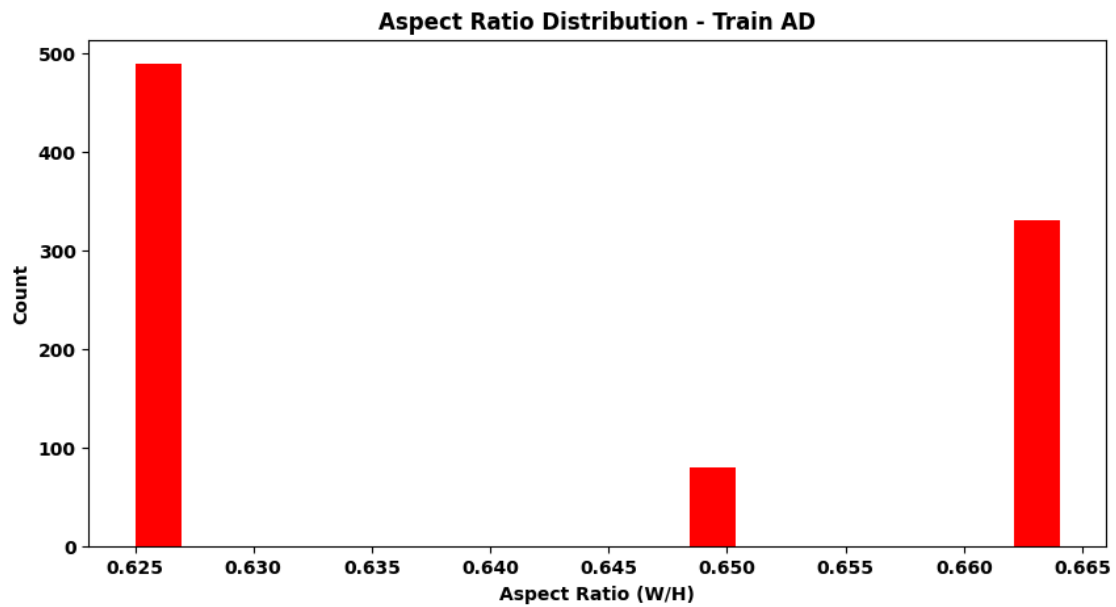
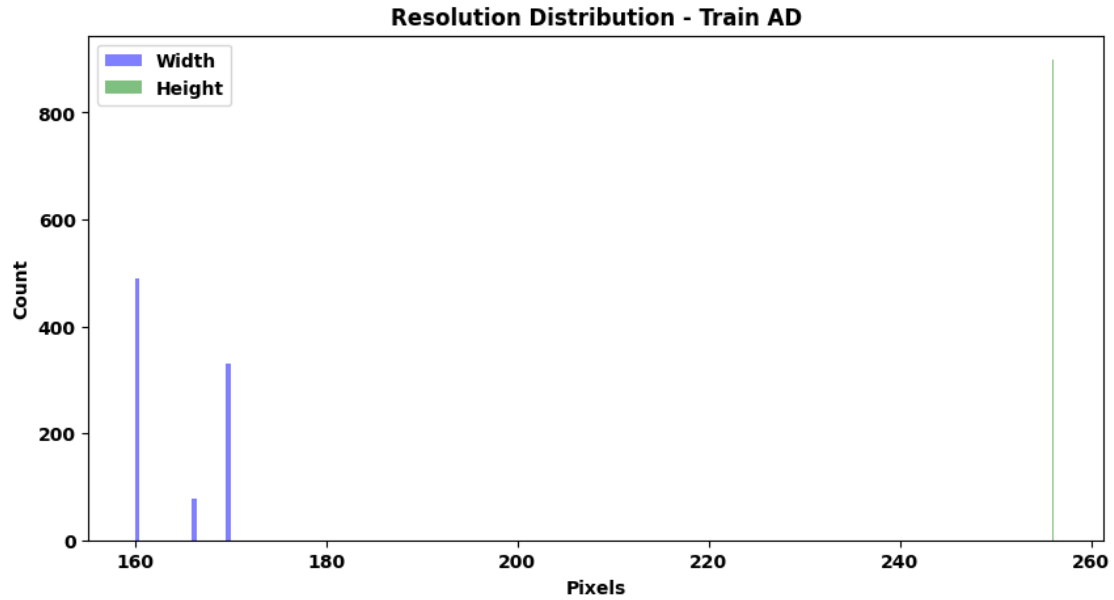
    # Plot distributions
    plt.figure(figsize=(10, 5))
    plt.hist(widths, bins=20, color='blue', alpha=0.5, label='Width')
    plt.hist(heights, bins=20, color='green', alpha=0.5, label='Height')
    plt.title(f'Resolution Distribution - {dataset_type} {class_name}')
    plt.xlabel('Pixels')
    plt.ylabel('Count')
    plt.legend()
    plt.show()

    plt.figure(figsize=(10, 5))
    plt.hist(aspect_ratios, bins=20, color='red')
    plt.title(f'Aspect Ratio Distribution - {dataset_type} {class_name}')
    plt.xlabel('Aspect Ratio (W/H)')
    plt.ylabel('Count')
    plt.show()

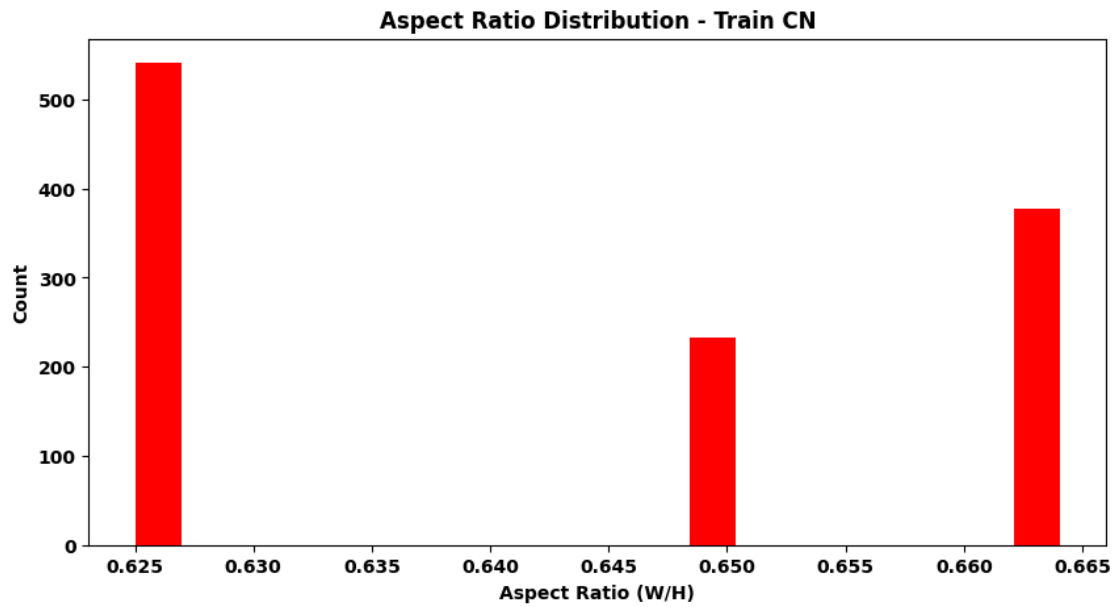
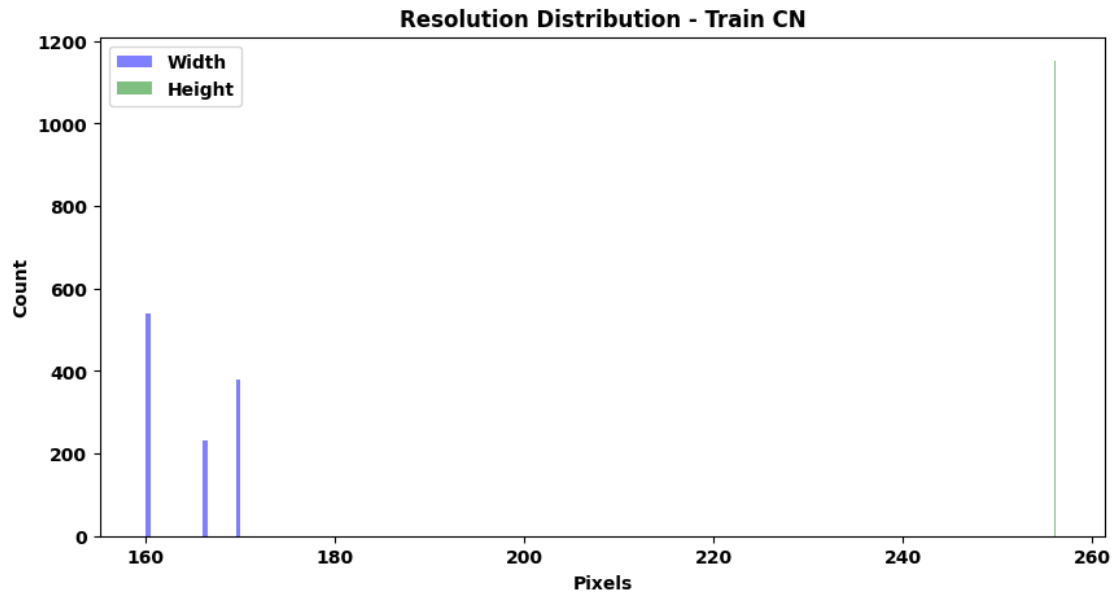
# Run for train and test
for dataset_type, base_dir in [("Train", train_dir), ("Test", test_dir)]:
    for sub in subfolders:
        paths = get_image_paths(base_dir, sub)
        compute_resolution_stats(paths, sub, dataset_type)

```

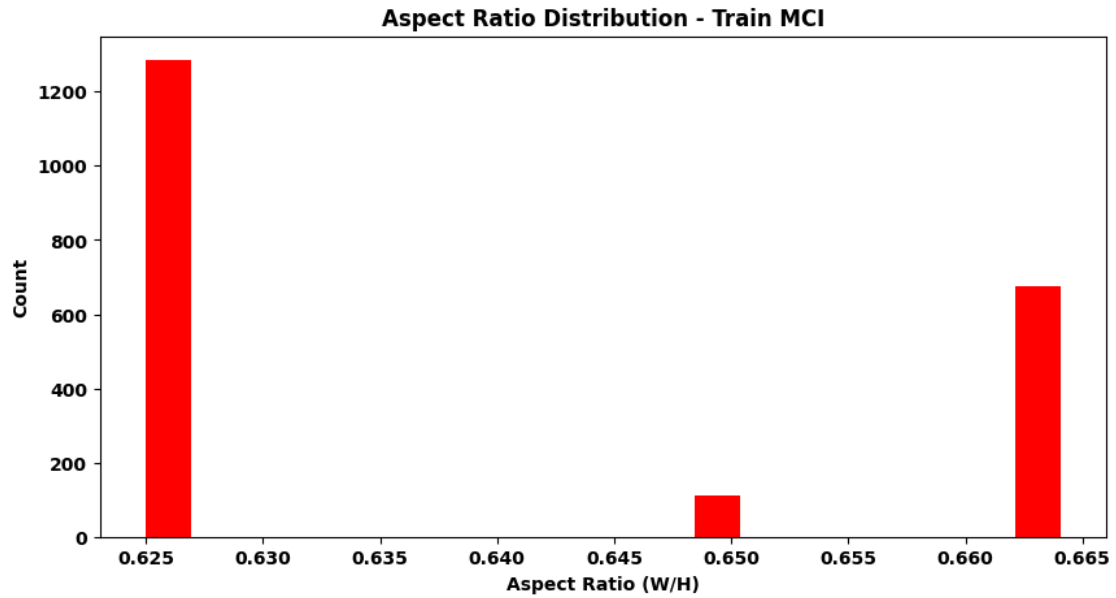
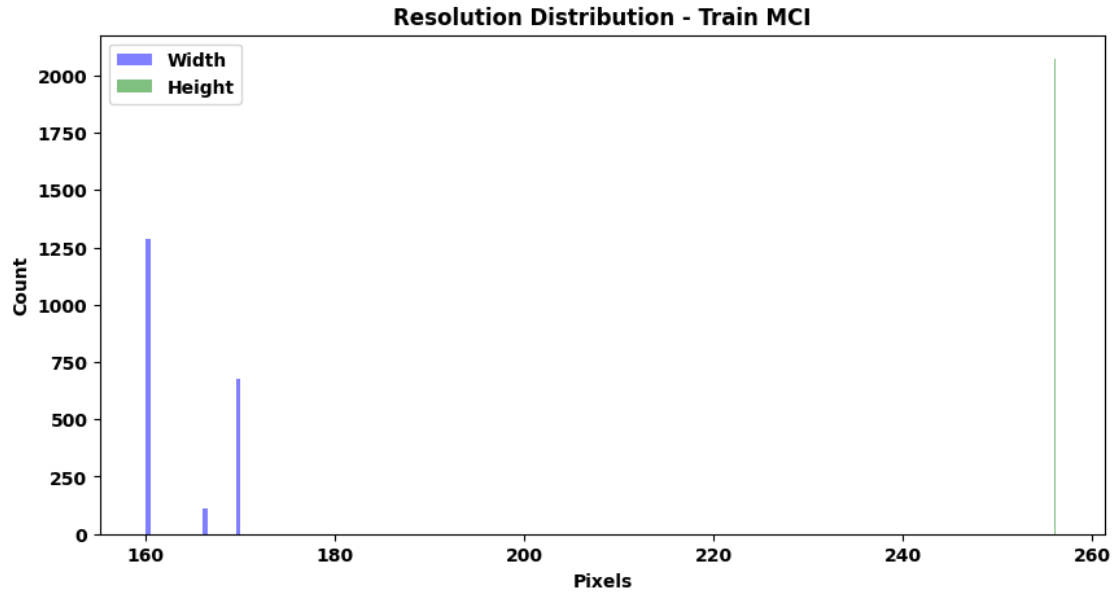
Train - AD: Median Resolution 160.0x256.0, Mean Aspect Ratio 0.6414418798665183  
Suggested Strategy for AD: Resize to 160.0x256.0 with padding to preserve aspect  
ratio. Class-wise effects: If variances high, padding prevents distortion in AD.



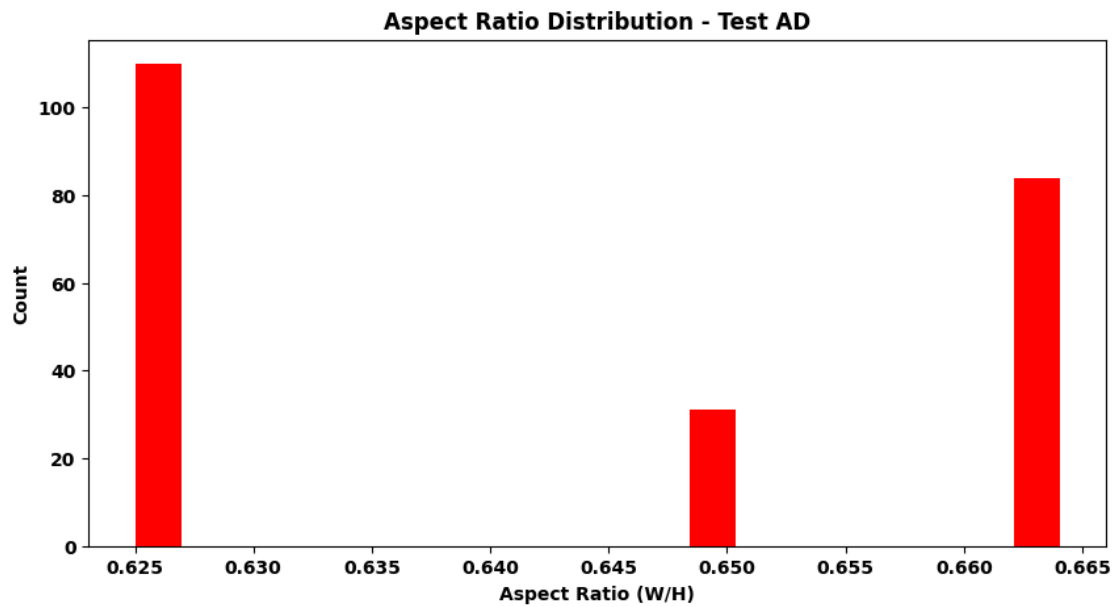
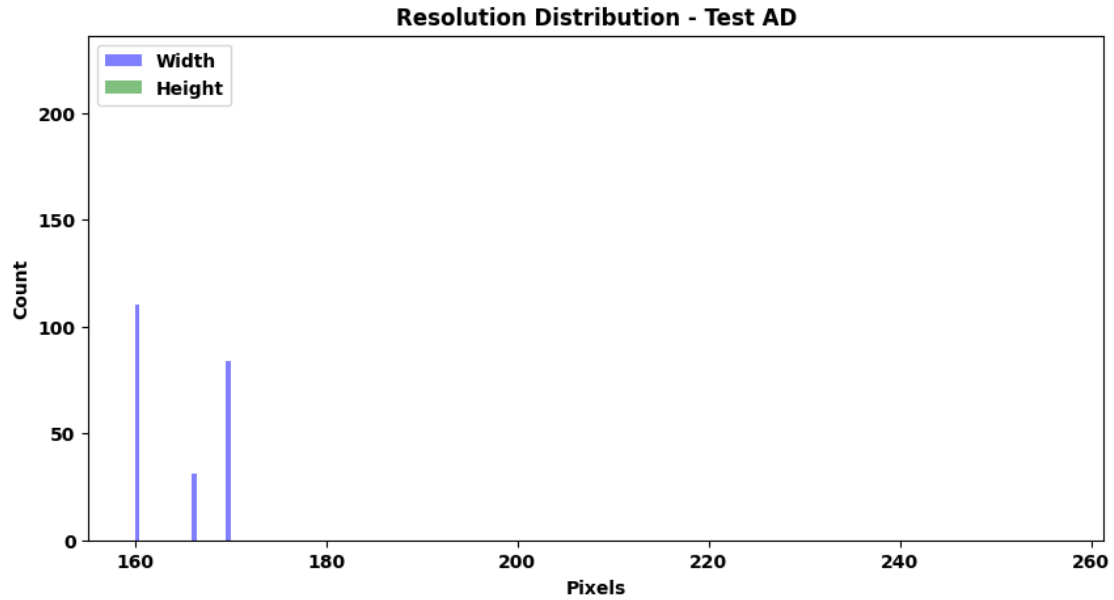
Train - CN: Median Resolution 166.0x256.0, Mean Aspect Ratio 0.6425577799479166  
 Suggested Strategy for CN: Resize to 166.0x256.0 with padding to preserve aspect ratio. Class-wise effects: If variances high, padding prevents distortion in CN.



Train - MCI: Median Resolution 160.0x256.0, Mean Aspect Ratio 0.638999909507722  
 Suggested Strategy for MCI: Resize to 160.0x256.0 with padding to preserve aspect ratio. Class-wise effects: If variances high, padding prevents distortion in MCI.

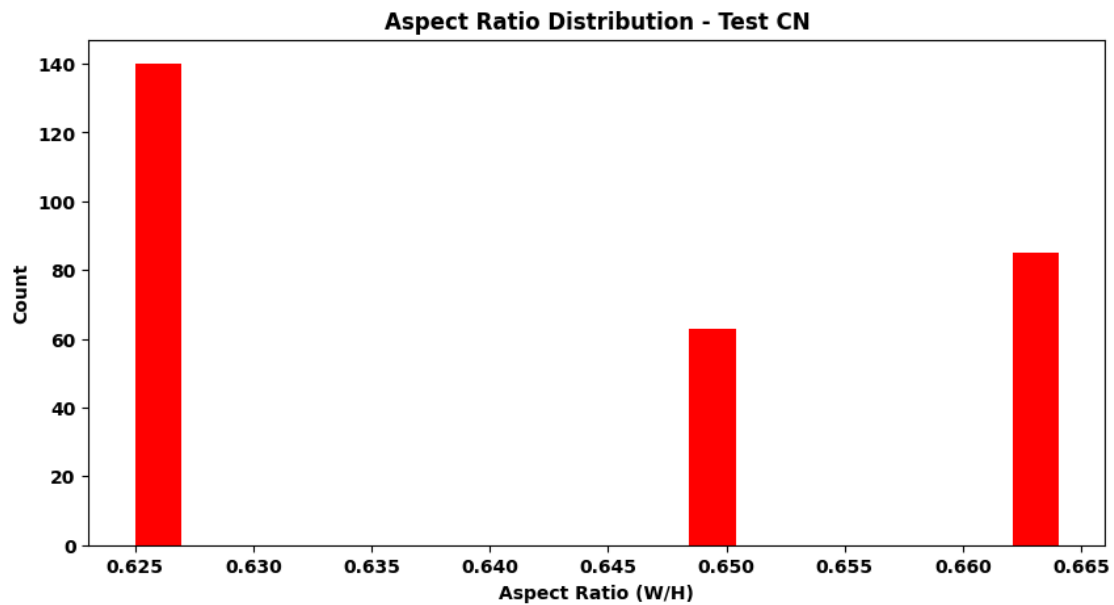
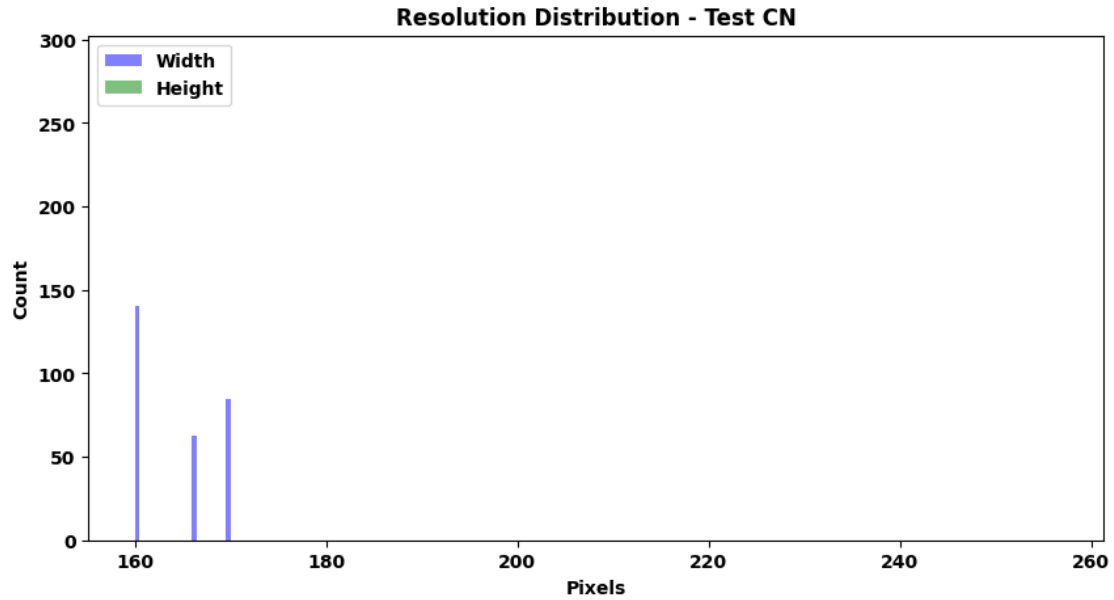


Test - AD: Median Resolution 166.0x256.0, Mean Aspect Ratio 0.6428125  
Suggested Strategy for AD: Resize to 166.0x256.0 with padding to preserve aspect ratio. Class-wise effects: If variances high, padding prevents distortion in AD.

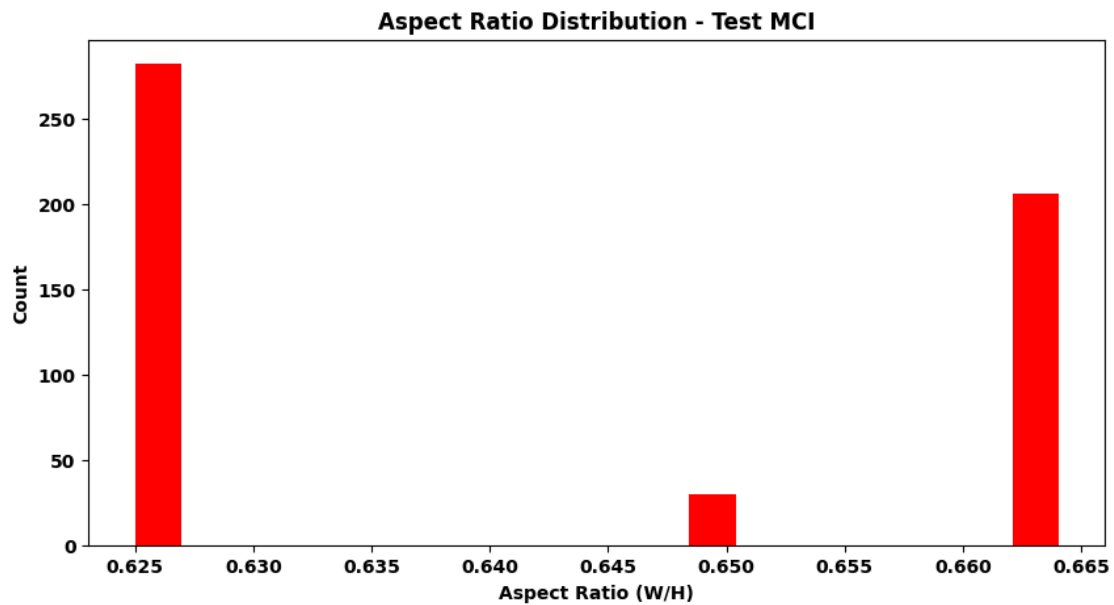
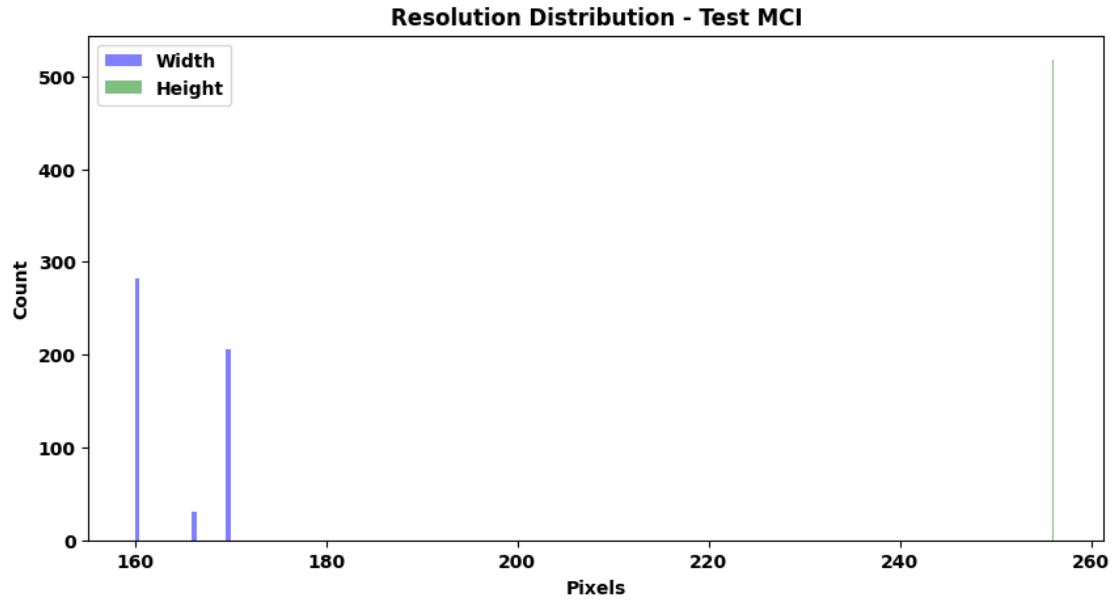


Test - CN: Median Resolution 166.0x256.0, Mean Aspect Ratio 0.6416558159722222  
 Suggested Strategy for CN: Resize to 166.0x256.0 with padding to preserve aspect ratio. Class-wise effects: If variances high, padding prevents distortion in CN.





Test - MCI: Median Resolution 160.0x256.0, Mean Aspect Ratio 0.6418918918918919  
 Suggested Strategy for MCI: Resize to 160.0x256.0 with padding to preserve aspect ratio. Class-wise effects: If variances high, padding prevents distortion in MCI.



```
[6]: # Function to compute sharpness and noise
def compute_sharpness_noise(image_paths, class_name, dataset_type):
    sharpness_values = []
    noise_values = [] # Proxy as abs(Laplacian) mean
    for img_path in image_paths:
        img = np.array(Image.open(img_path).convert('L')) # Grayscale
        laplacian = ndimage.laplace(img.astype(float))
```

```

    sharpness = np.var(laplacian)
    noise_proxy = np.mean(np.abs(laplacian))
    sharpness_values.append(sharpness)
    noise_values.append(noise_proxy)

    print(f"{dataset_type} - {class_name}: Mean Sharpness (Laplacian Var) {np.
↪mean(sharpness_values)}, Mean Noise Proxy {np.mean(noise_values)}")

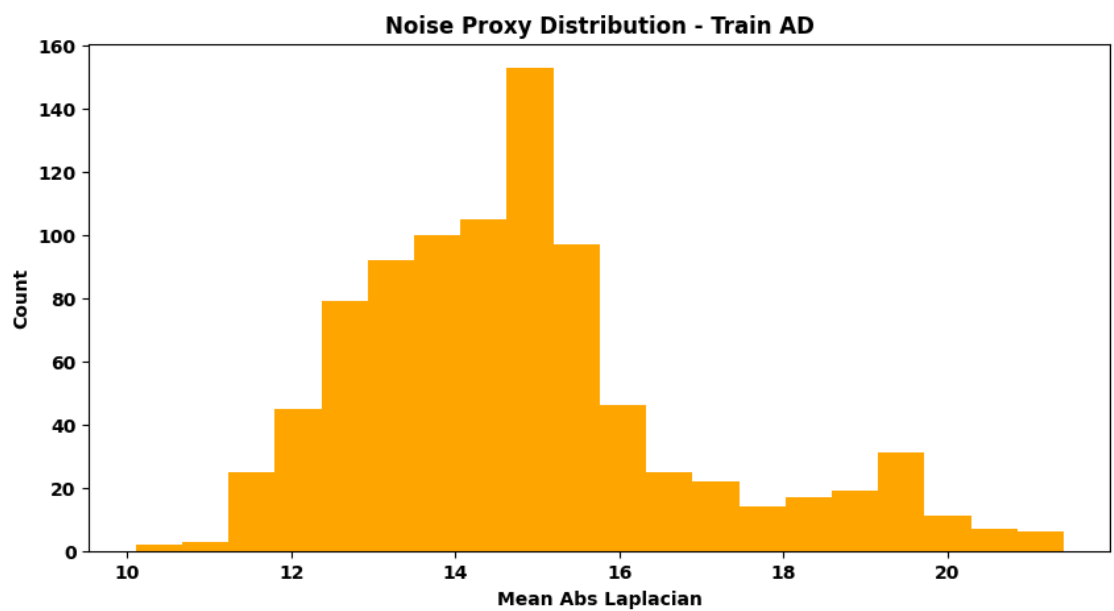
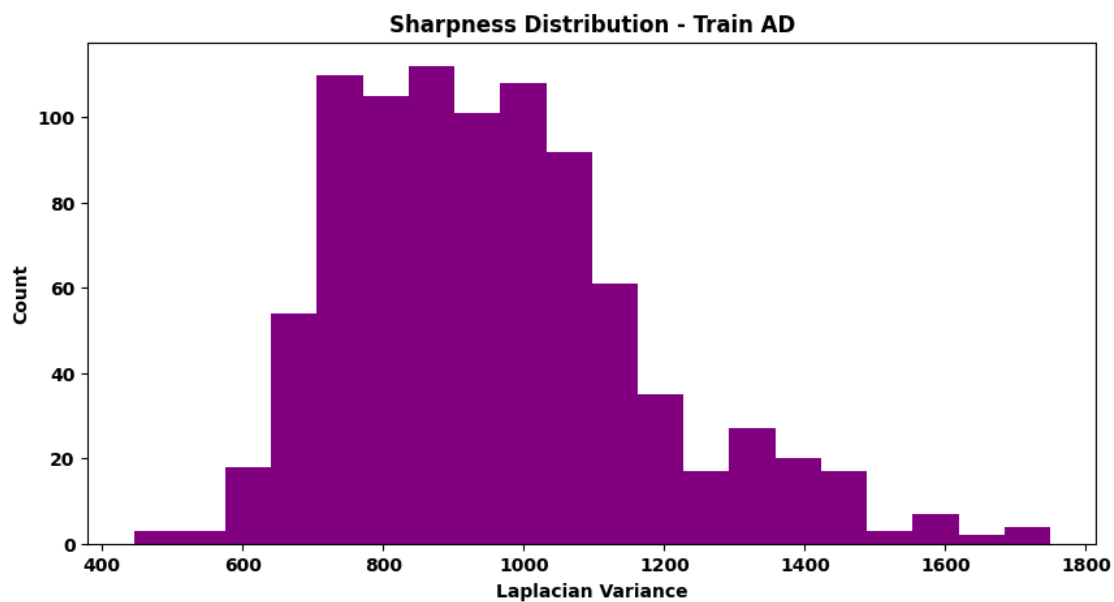
    # Plot distributions
    plt.figure(figsize=(10, 5))
    plt.hist(sharpness_values, bins=20, color='purple')
    plt.title(f'Sharpness Distribution - {dataset_type} {class_name}')
    plt.xlabel('Laplacian Variance')
    plt.ylabel('Count')
    plt.show()

    plt.figure(figsize=(10, 5))
    plt.hist(noise_values, bins=20, color='orange')
    plt.title(f'Noise Proxy Distribution - {dataset_type} {class_name}')
    plt.xlabel('Mean Abs Laplacian')
    plt.ylabel('Count')
    plt.show()

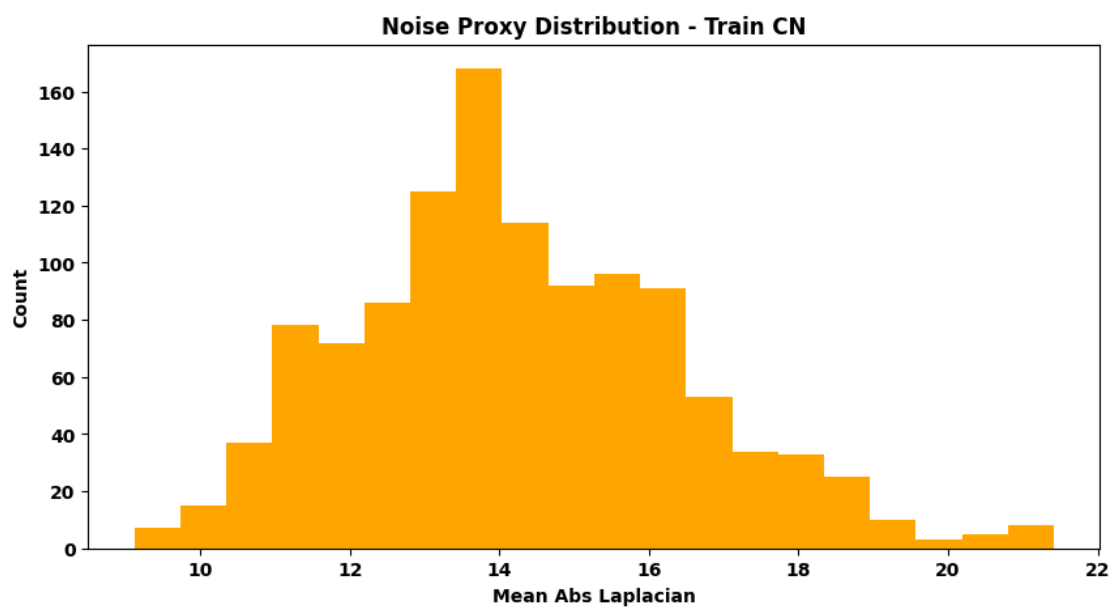
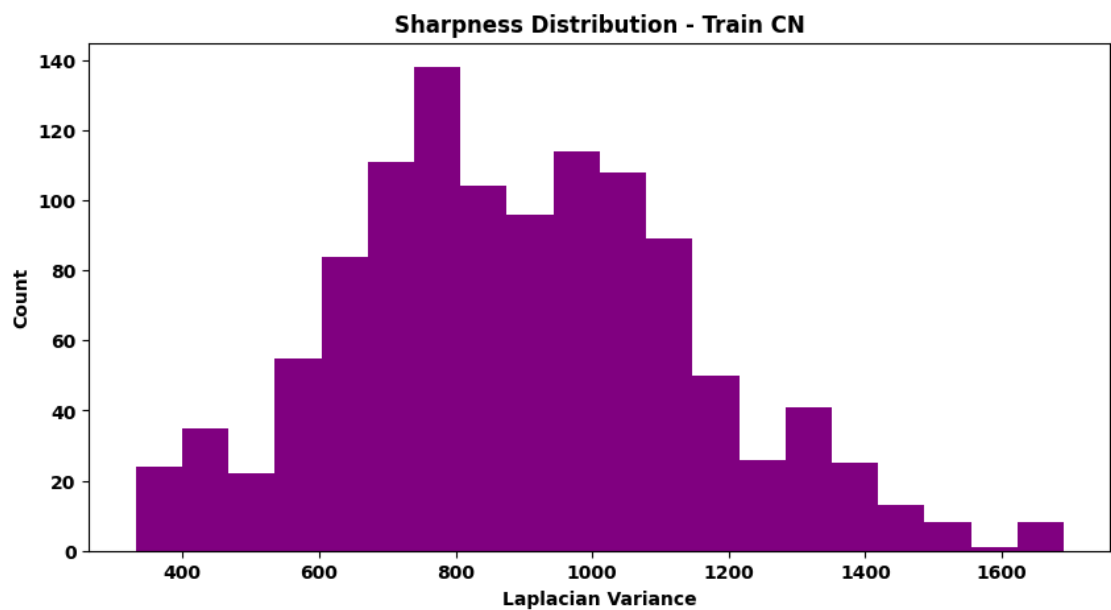
    # Run for train and test
    for dataset_type, base_dir in [("Train", train_dir), ("Test", test_dir)]:
        for sub in subfolders:
            paths = get_image_paths(base_dir, sub)
            compute_sharpness_noise(paths, sub, dataset_type)

```

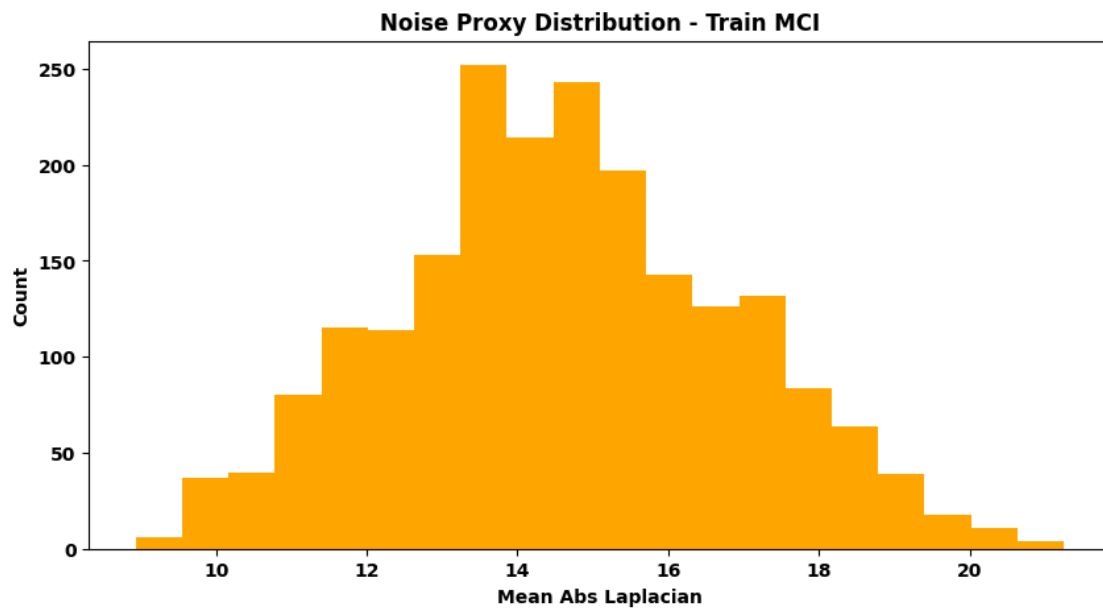
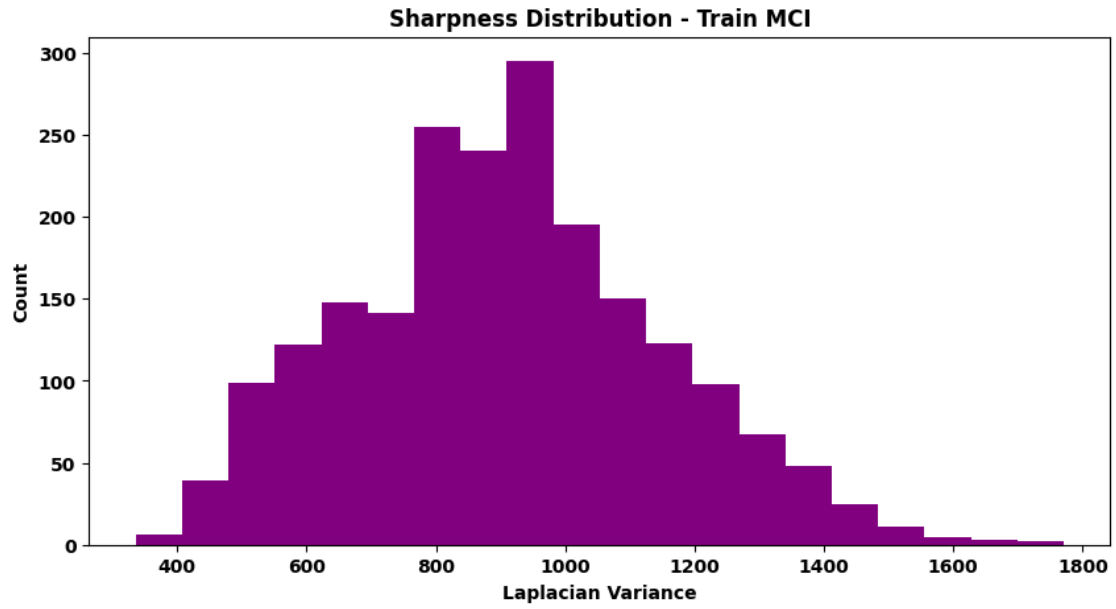
Train - AD: Mean Sharpness (Laplacian Var) 957.1282744615885, Mean Noise Proxy 14.802802645471242



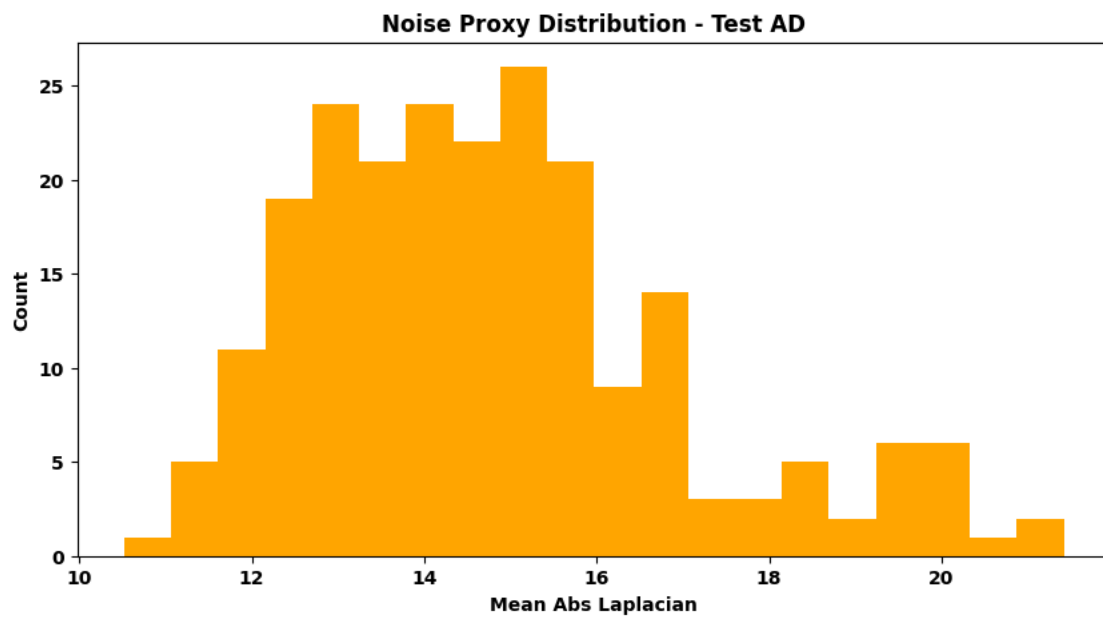
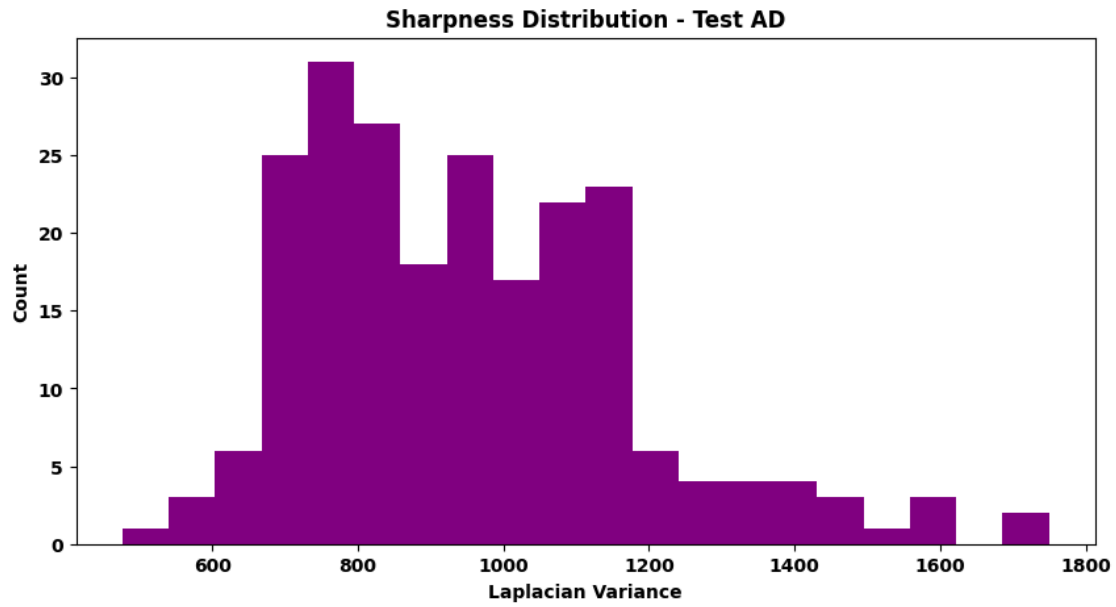
Train - CN: Mean Sharpness (Laplacian Var) 893.2968455190498, Mean Noise Proxy 14.251108631410697



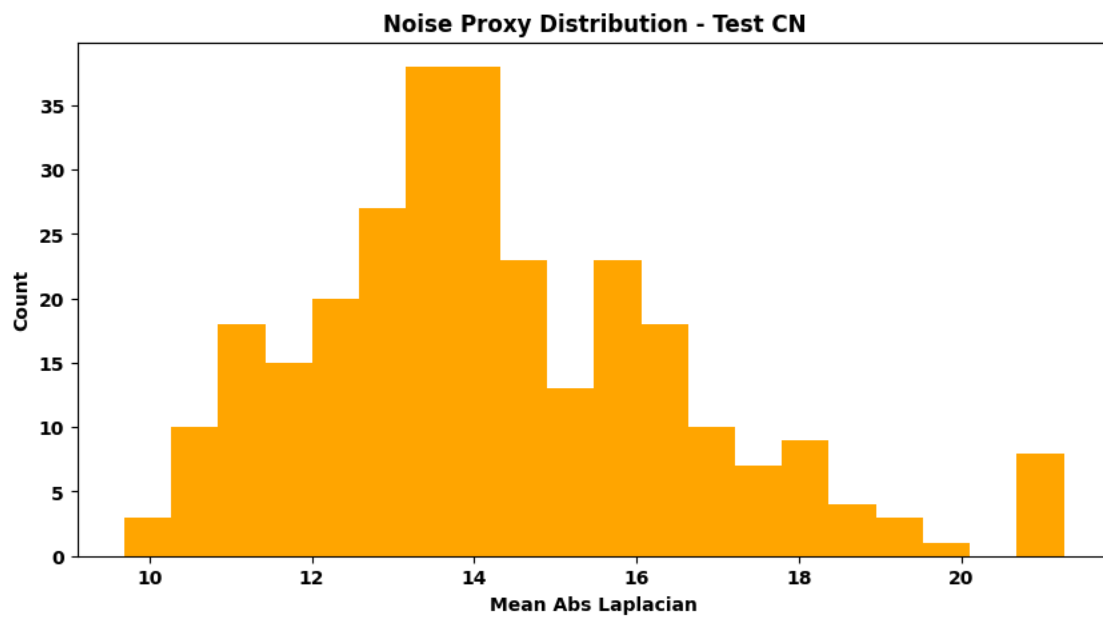
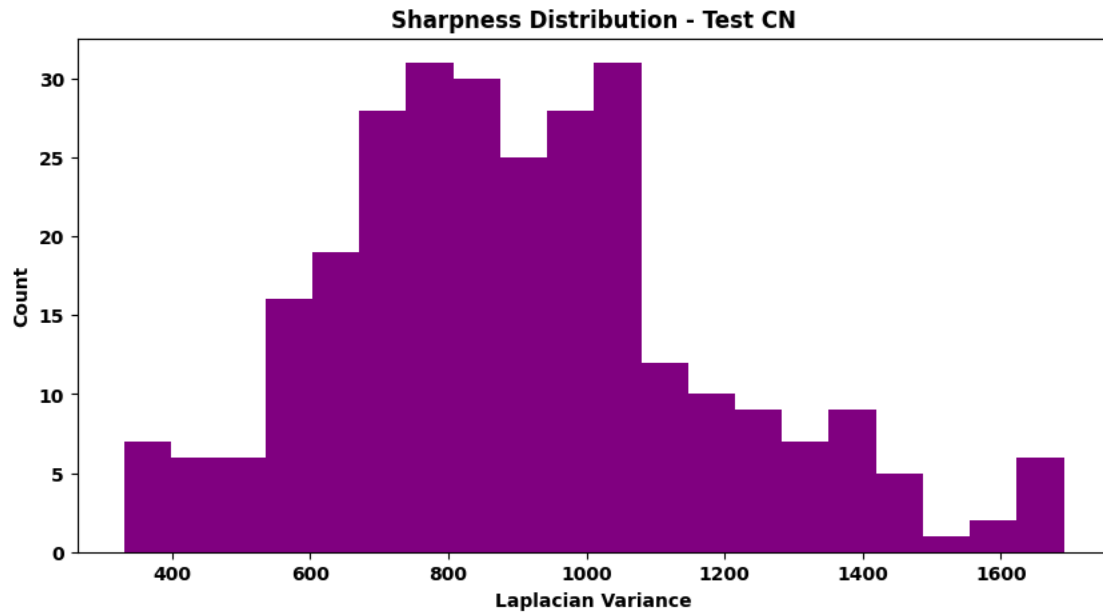
Train - MCI: Mean Sharpness (Laplacian Var) 908.4466331019075, Mean Noise Proxy 14.612884490720369



Test - AD: Mean Sharpness (Laplacian Var) 951.997204343723, Mean Noise Proxy 14.780007986757077

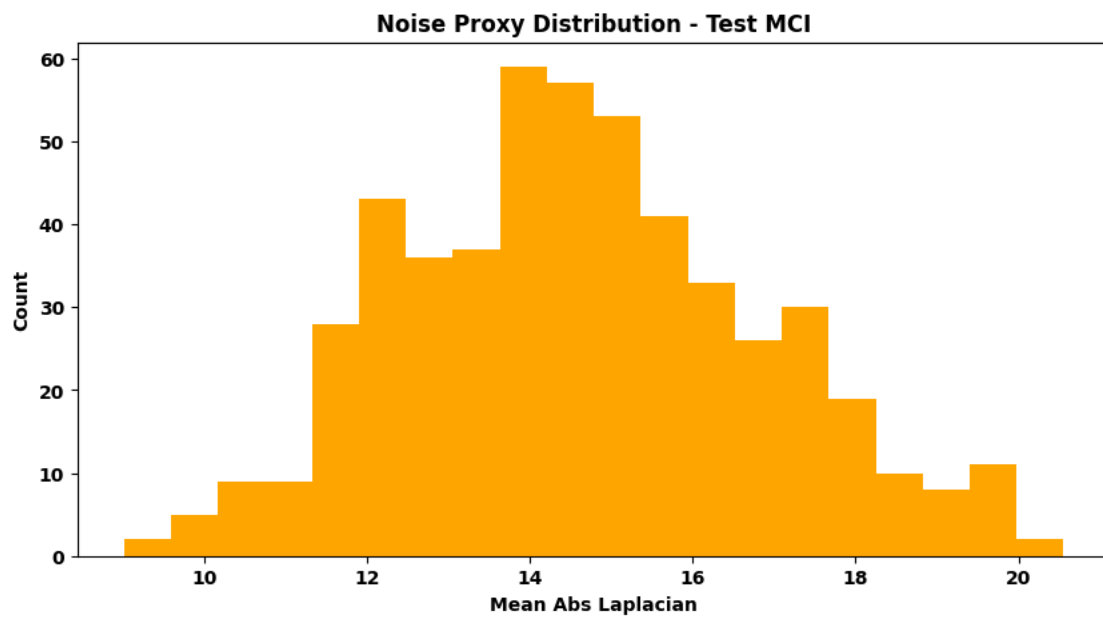
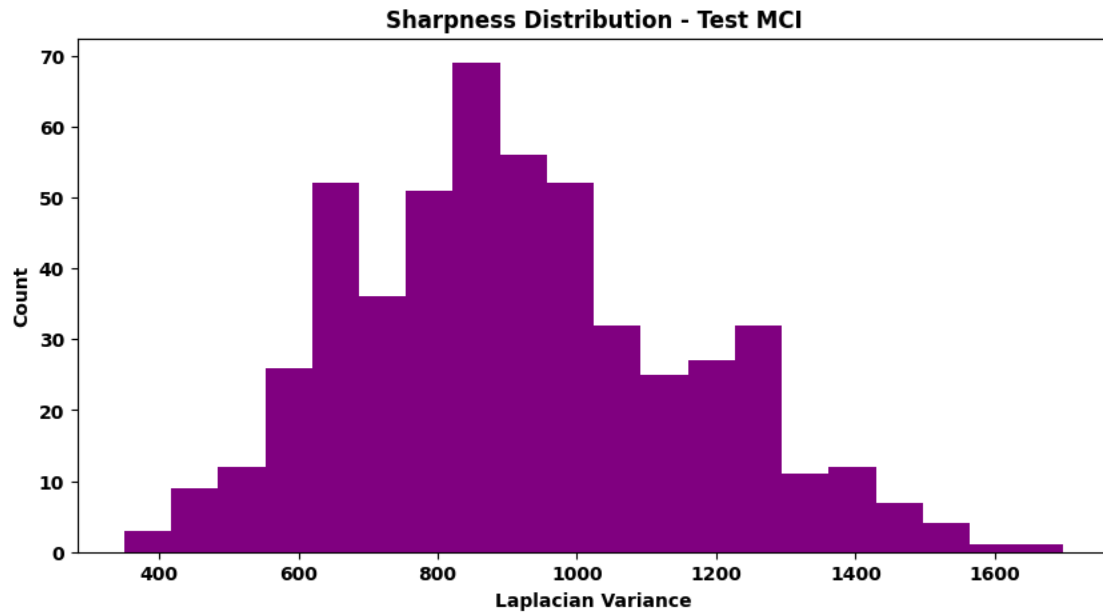


Test - CN: Mean Sharpness (Laplacian Var) 905.8616302025225, Mean Noise Proxy 14.30359284211467



Test - MCI: Mean Sharpness (Laplacian Var) 915.2936486167289, Mean Noise Proxy 14.626260219342337





```
[7]: # Function for white balance check
def compute_white_balance(image_paths, class_name, dataset_type):
    channel_means = []
    for img_path in image_paths:
        img = np.array(Image.open(img_path).convert('RGB'))
        means = np.mean(img, axis=(0,1))
```

```

channel_means.append(means)

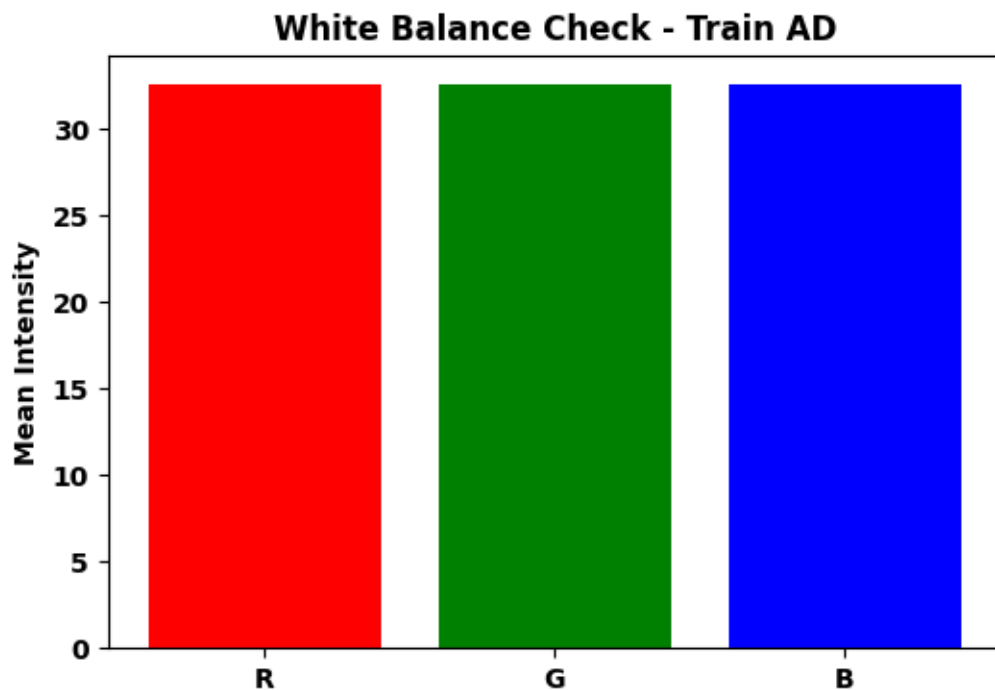
avg_means = np.mean(channel_means, axis=0)
deviation = np.std(avg_means) # Deviation from equal
print(f"{dataset_type} - {class_name}: Avg Channel Means {avg_means}, \u2192 Gray-World Deviation {deviation} (lower is better balanced)")

# Plot bar
plt.figure(figsize=(6, 4))
plt.bar(['R', 'G', 'B'], avg_means, color=['red', 'green', 'blue'])
plt.title(f'White Balance Check - {dataset_type} {class_name}')
plt.ylabel('Mean Intensity')
plt.show()

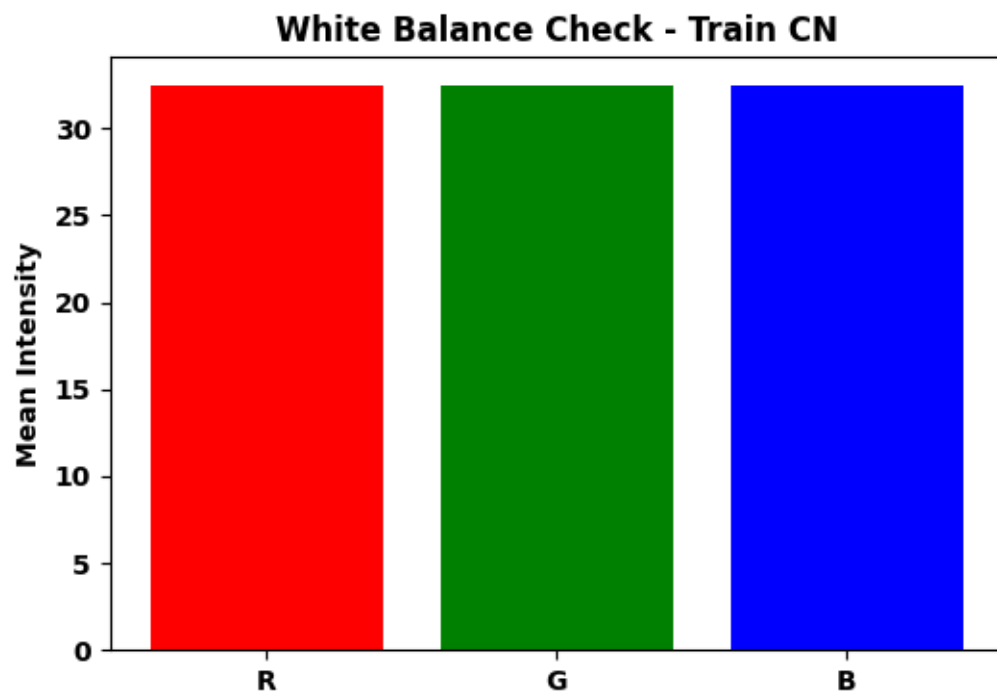
# Run for train and test
for dataset_type, base_dir in [("Train", train_dir), ("Test", test_dir)]:
    for sub in subfolders:
        paths = get_image_paths(base_dir, sub)
        compute_white_balance(paths, sub, dataset_type)

```

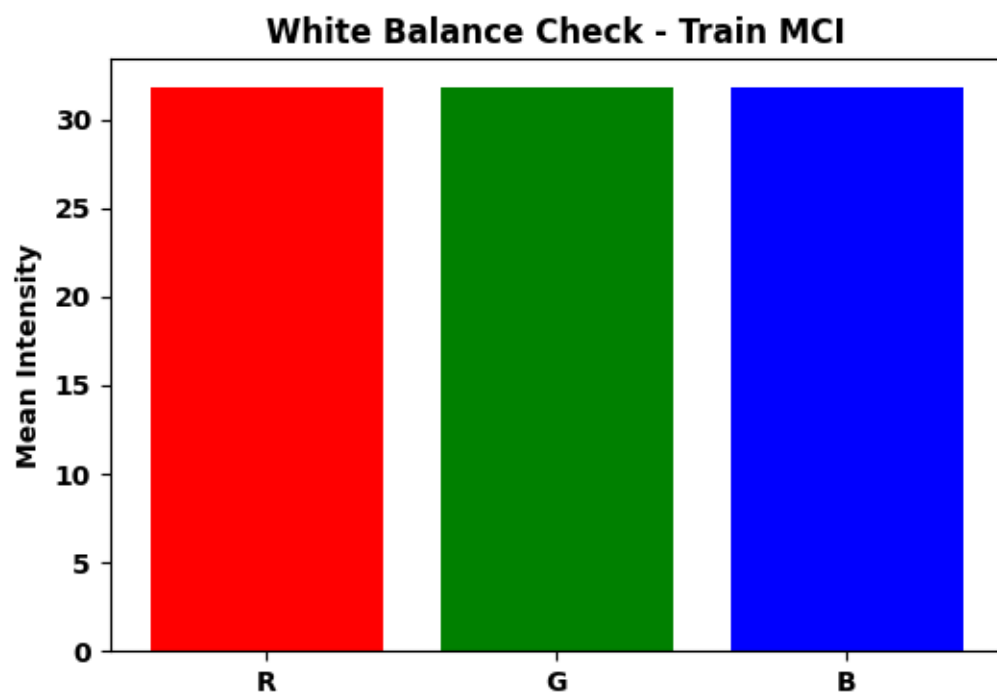
Train - AD: Avg Channel Means [32.61346806 32.61346806 32.61346806], Gray-World Deviation 0.0 (lower is better balanced)



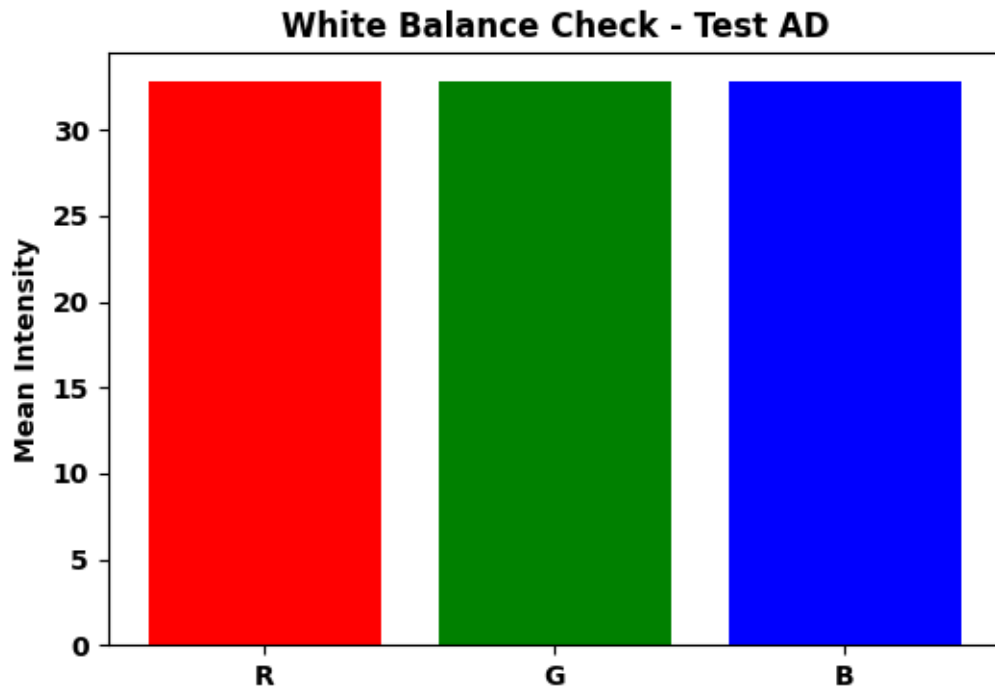
Train - CN: Avg Channel Means [32.45573519 32.45573519 32.45573519], Gray-World Deviation 0.0 (lower is better balanced)



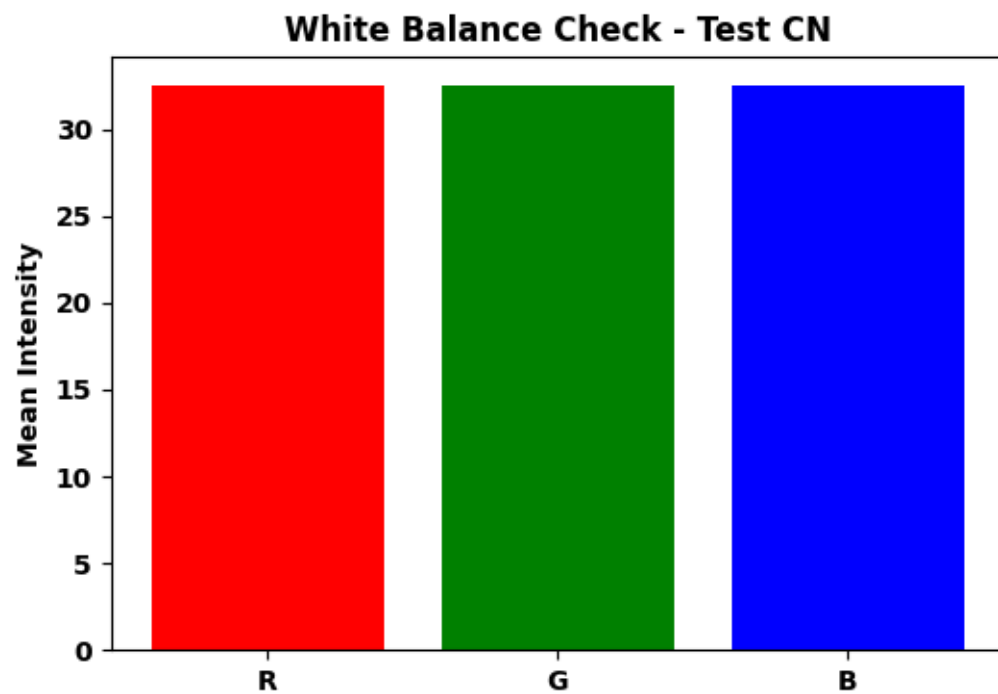
Train - MCI: Avg Channel Means [31.80549625 31.80549625 31.80549625], Gray-World Deviation 3.552713678800501e-15 (lower is better balanced)



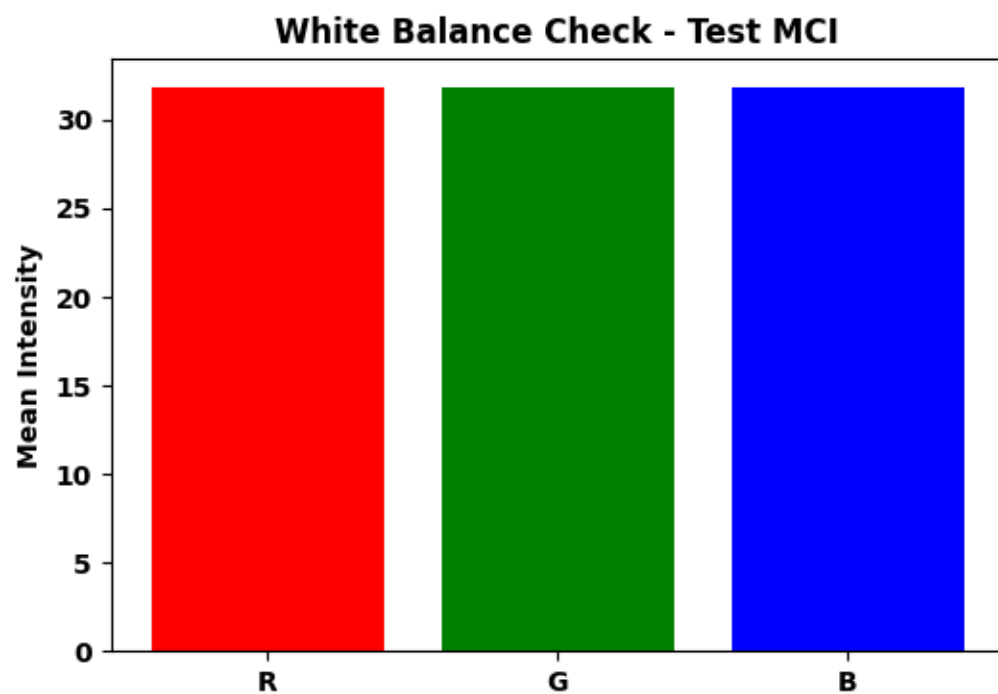
Test - AD: Avg Channel Means [32.82031287 32.82031287 32.82031287], Gray-World  
Deviation 0.0 (lower is better balanced)



Test - CN: Avg Channel Means [32.50435488 32.50435488 32.50435488], Gray-World  
Deviation 0.0 (lower is better balanced)



Test - MCI: Avg Channel Means [31.83111587 31.83111587 31.83111587], Gray-World Deviation 0.0 (lower is better balanced)



```
[8]: # Function for perceptual hash (dHash)
def dhash(image, hash_size=8):
    img = Image.open(image).convert('L').resize((hash_size + 1, hash_size),
    ↪Image.LANCZOS)
    pixels = np.array(img)
    diff = pixels[:, 1:] > pixels[:, :-1]
    return ''.join(str(int(b)) for row in diff for b in row)

# Function to detect duplicates
def detect_duplicates(image_paths, class_name, dataset_type):
    hash_dict = defaultdict(list)
    for img_path in image_paths:
        h = dhash(img_path)
        hash_dict[h].append(img_path)

    duplicates = {h: paths for h, paths in hash_dict.items() if len(paths) > 1}
    print(f"{dataset_type} - {class_name}: Found {len(duplicates)} duplicate_
    ↪groups")
    for group in duplicates.values():
        print(f"Duplicates: {group}")

# Run for train and test
for dataset_type, base_dir in [("Train", train_dir), ("Test", test_dir)]:
    for sub in subfolders:
        paths = get_image_paths(base_dir, sub)
        detect_duplicates(paths, sub, dataset_type)
```

```
Train - AD: Found 198 duplicate groups
Duplicates: ['/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD136_S_0426a120.png',
'/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD136_S_0426b120.png']
Duplicates: ['/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD136_S_0299a094.png',
'/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD136_S_0299b094.png']
Duplicates: ['/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD023_S_1262b106.png',
'/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD023_S_1262b108.png',
'/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD023_S_1262a107.png',
'/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD023_S_1262b107.png',
'/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD023_S_1262a108.png',
```

```

'/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD023_S_1262a106.png']
Duplicates: ['/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD116_S_0487a128.png',
'/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD116_S_0487a127.png']
Duplicates: ['/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD067_S_1253a104.png',
'/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD067_S_1253a101.png',
'/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD067_S_1253a102.png',
'/kaggle/input/alzheimer-
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Duplicates: ['/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD116_S_1083a128.png',
'/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD116_S_1083a129.png',
'/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD027_S_1385a104.png',
'/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD027_S_1385a105.png',
'/kaggle/input/alzheimer-
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'/kaggle/input/alzheimer-
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'/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD116_S_1083a133.png']
Duplicates: ['/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD136_S_0194a076.png',
'/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD136_S_0194b076.png']
Duplicates: ['/kaggle/input/alzheimer-
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'/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD002_S_1018a099.png']
Duplicates: ['/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD023_S_1289a104.png',
'/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD023_S_1289b104.png',
'/kaggle/input/alzheimer-
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'/kaggle/input/alzheimer-
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'/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD023_S_1289a106.png']
Duplicates: ['/kaggle/input/alzheimer-
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```

'/kaggle/input/alzheimer-disease/train-20251010T183510Z-1-001/train/AD/AD023\_S\_0139a116.png',  
 '/kaggle/input/alzheimer-disease/train-20251010T183510Z-1-001/train/AD/AD023\_S\_0139b116.png',  
 '/kaggle/input/alzheimer-disease/train-20251010T183510Z-1-001/train/AD/AD023\_S\_0139a114.png',  
 '/kaggle/input/alzheimer-disease/train-20251010T183510Z-1-001/train/AD/AD023\_S\_0139b114.png']  
 Duplicates: ['/kaggle/input/alzheimer-disease/train-20251010T183510Z-1-001/train/AD/AD023\_S\_1289b113.png',  
 '/kaggle/input/alzheimer-disease/train-20251010T183510Z-1-001/train/AD/AD023\_S\_1289a113.png']  
 Duplicates: ['/kaggle/input/alzheimer-disease/train-20251010T183510Z-1-001/train/AD/AD136\_S\_0300b090.png',  
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 '/kaggle/input/alzheimer-disease/train-20251010T183510Z-1-001/train/AD/AD136\_S\_0300b091.png',  
 '/kaggle/input/alzheimer-disease/train-20251010T183510Z-1-001/train/AD/AD136\_S\_0300a091.png',  
 '/kaggle/input/alzheimer-disease/train-20251010T183510Z-1-001/train/AD/AD136\_S\_0300a090.png',  
 '/kaggle/input/alzheimer-disease/train-20251010T183510Z-1-001/train/AD/AD136\_S\_0300a092.png']  
 Duplicates: ['/kaggle/input/alzheimer-disease/train-20251010T183510Z-1-001/train/AD/AD127\_S\_0844a101.png',  
 '/kaggle/input/alzheimer-disease/train-20251010T183510Z-1-001/train/AD/AD127\_S\_0844a100.png']  
 Duplicates: ['/kaggle/input/alzheimer-disease/train-20251010T183510Z-1-001/train/AD/AD023\_S\_1262a118.png',  
 '/kaggle/input/alzheimer-disease/train-20251010T183510Z-1-001/train/AD/AD023\_S\_1262b118.png']  
 Duplicates: ['/kaggle/input/alzheimer-disease/train-20251010T183510Z-1-001/train/AD/AD005\_S\_0814a122.png',  
 '/kaggle/input/alzheimer-disease/train-20251010T183510Z-1-001/train/AD/AD005\_S\_0814a120.png']  
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```

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'/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD023_S_1289a120.png']
Duplicates: ['/kaggle/input/alzheimer-
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'/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD018_S_0633a109.png',
'/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD018_S_0633a108.png']
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disease/train-20251010T183510Z-1-001/train/AD/AD023_S_1262a120.png']
Duplicates: ['/kaggle/input/alzheimer-
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'/kaggle/input/alzheimer-
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'/kaggle/input/alzheimer-
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```

'/kaggle/input/alzheimer-  
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 disease/test-20251010T094612Z-1-001/test/AD/AD023\_S\_0139a109.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/AD/AD023\_S\_0139b113.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/AD/AD023\_S\_0139b112.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/AD/AD023\_S\_0139b110.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/AD/AD023\_S\_1289b110.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/AD/AD023\_S\_1289b111.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/AD/AD136\_S\_0299a088.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/AD/AD136\_S\_0299a090.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/AD/AD136\_S\_0426b104.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/AD/AD136\_S\_0426b105.png']  
 Duplicates: ['/kaggle/input/alzheimer-

disease/test-20251010T094612Z-1-001/test/AD/AD002\_S\_1018a081.png',  
'/kaggle/input/alzheimer-  
disease/test-20251010T094612Z-1-001/test/AD/AD027\_S\_1385a113.png',  
'/kaggle/input/alzheimer-  
disease/test-20251010T094612Z-1-001/test/AD/AD027\_S\_1385a114.png']  
Duplicates: ['/kaggle/input/alzheimer-  
disease/test-20251010T094612Z-1-001/test/AD/AD007\_S\_1304a112.png',  
'/kaggle/input/alzheimer-  
disease/test-20251010T094612Z-1-001/test/AD/AD007\_S\_1304a113.png']  
Duplicates: ['/kaggle/input/alzheimer-  
disease/test-20251010T094612Z-1-001/test/AD/AD023\_S\_0139b103.png',  
'/kaggle/input/alzheimer-  
disease/test-20251010T094612Z-1-001/test/AD/AD023\_S\_0139a103.png',  
'/kaggle/input/alzheimer-  
disease/test-20251010T094612Z-1-001/test/AD/AD023\_S\_0139a101.png',  
'/kaggle/input/alzheimer-  
disease/test-20251010T094612Z-1-001/test/AD/AD023\_S\_0139a108.png']  
Duplicates: ['/kaggle/input/alzheimer-  
disease/test-20251010T094612Z-1-001/test/AD/AD136\_S\_0426a103.png',  
'/kaggle/input/alzheimer-  
disease/test-20251010T094612Z-1-001/test/AD/AD136\_S\_0426a102.png']  
Duplicates: ['/kaggle/input/alzheimer-  
disease/test-20251010T094612Z-1-001/test/AD/AD136\_S\_0299b085.png',  
'/kaggle/input/alzheimer-  
disease/test-20251010T094612Z-1-001/test/AD/AD136\_S\_0299b084.png']  
Duplicates: ['/kaggle/input/alzheimer-  
disease/test-20251010T094612Z-1-001/test/AD/AD136\_S\_0426b100.png',  
'/kaggle/input/alzheimer-  
disease/test-20251010T094612Z-1-001/test/AD/AD136\_S\_0426b101.png']  
Duplicates: ['/kaggle/input/alzheimer-  
disease/test-20251010T094612Z-1-001/test/AD/AD136\_S\_0300a105.png',  
'/kaggle/input/alzheimer-  
disease/test-20251010T094612Z-1-001/test/AD/AD136\_S\_0300b105.png']  
Duplicates: ['/kaggle/input/alzheimer-  
disease/test-20251010T094612Z-1-001/test/AD/AD136\_S\_0300a094.png',  
'/kaggle/input/alzheimer-  
disease/test-20251010T094612Z-1-001/test/AD/AD136\_S\_0300b094.png']  
Duplicates: ['/kaggle/input/alzheimer-  
disease/test-20251010T094612Z-1-001/test/AD/AD023\_S\_0139a093.png',  
'/kaggle/input/alzheimer-  
disease/test-20251010T094612Z-1-001/test/AD/AD023\_S\_0139b093.png']  
Test - CN: Found 38 duplicate groups  
Duplicates: ['/kaggle/input/alzheimer-  
disease/test-20251010T094612Z-1-001/test/CN/CN002\_S\_0559b101.png',  
'/kaggle/input/alzheimer-  
disease/test-20251010T094612Z-1-001/test/CN/CN002\_S\_0559a101.png']  
Duplicates: ['/kaggle/input/alzheimer-  
disease/test-20251010T094612Z-1-001/test/CN/CN002\_S\_0413a110.png',

'/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN002\_S\_0413b111.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN002\_S\_0413a112.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN082\_S\_0640a105.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN082\_S\_0640b105.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN082\_S\_0304b122.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN082\_S\_0304a121.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN023\_S\_1190a108.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN023\_S\_1190a107.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN023\_S\_1190b107.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN023\_S\_1190a099.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN023\_S\_1190a101.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN082\_S\_0304b120.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN082\_S\_0304a120.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN023\_S\_0963a089.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN023\_S\_0963b088.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN023\_S\_0061b116.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN023\_S\_0061a116.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN018\_S\_0369b115.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN018\_S\_0369a115.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN023\_S\_0031b098.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN023\_S\_0031a098.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN023\_S\_0963a080.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN023\_S\_0963b080.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN002\_S\_0559b109.png',

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'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/CN/CN002_S_0559a109.png']
Duplicates: ['/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/CN/CN002_S_0413b106.png',
'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/CN/CN002_S_0413b107.png',
'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/CN/CN002_S_0413a107.png']
Duplicates: ['/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/CN/CN002_S_0413b091.png',
'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/CN/CN002_S_0413a091.png']
Duplicates: ['/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/CN/CN052_S_1250a105.png',
'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/CN/CN052_S_1250a106.png']
Duplicates: ['/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/CN/CN082_S_0640a094.png',
'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/CN/CN082_S_0640a093.png',
'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/CN/CN082_S_0640b094.png']
Duplicates: ['/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/CN/CN023_S_0058b103.png',
'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/CN/CN023_S_0058a103.png']
Duplicates: ['/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/CN/CN023_S_0058a126.png',
'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/CN/CN023_S_0058b127.png']
Duplicates: ['/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/CN/CN023_S_0058b133.png',
'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/CN/CN023_S_0058a133.png']
Duplicates: ['/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/CN/CN082_S_0640a104.png',
'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/CN/CN082_S_0640b104.png']
Duplicates: ['/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/CN/CN023_S_0058a113.png',
'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/CN/CN023_S_0058b113.png']
Duplicates: ['/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/CN/CN116_S_1249a116.png',
'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/CN/CN116_S_1249a115.png']
Duplicates: ['/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/CN/CN027_S_0403a085.png',

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'/kaggle/input/alzheimer-  
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 Duplicates: ['/kaggle/input/alzheimer-  
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 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN068\_S\_1191a104.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN023\_S\_0031b100.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN023\_S\_0031a100.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN023\_S\_0058b121.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN023\_S\_0058a122.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN005\_S\_0602a121.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN005\_S\_0602a120.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN082\_S\_0304a132.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN082\_S\_0304a131.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN116\_S\_1232a091.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN116\_S\_1232a093.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN023\_S\_0963b095.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN023\_S\_0963a094.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN023\_S\_0058a114.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN023\_S\_0058b114.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN136\_S\_0196b100.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN136\_S\_0196b099.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN023\_S\_0963a082.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN023\_S\_0963b081.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN018\_S\_0369b105.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN018\_S\_0369b106.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/CN/CN051\_S\_1123a091.png',



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'/kaggle/input/alzheimer-
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Duplicates: ['/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/CN/CN023_S_1190a112.png',
'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/CN/CN023_S_1190a111.png']
Duplicates: ['/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/CN/CN023_S_0058b098.png',
'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/CN/CN023_S_0058a098.png']
Test - MCI: Found 59 duplicate groups
Duplicates: ['/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/MCI/CI126_S_1340a088.png',
'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/MCI/CI126_S_1340a086.png',
'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/MCI/CI126_S_1340a090.png']
Duplicates: ['/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/MCI/CI136_S_0195b104.png',
'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/MCI/CI136_S_0195a105.png']
Duplicates: ['/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/MCI/CI023_S_0331b088.png',
'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/MCI/CI023_S_0331a087.png']
Duplicates: ['/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/MCI/CI053_S_0507a131.png',
'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/MCI/CI053_S_0507b131.png',
'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/MCI/CI053_S_0507a117.png']
Duplicates: ['/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/MCI/CI067_S_0607b090.png',
'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/MCI/CI067_S_0607a090.png']
Duplicates: ['/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/MCI/CI053_S_0507b105.png',
'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/MCI/CI053_S_0507b104.png']
Duplicates: ['/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/MCI/CI053_S_0507a126.png',
'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/MCI/CI053_S_0507b125.png']
Duplicates: ['/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/MCI/CI023_S_1247b114.png',
'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/MCI/CI023_S_1247a114.png',
'/kaggle/input/alzheimer-

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disease/test-20251010T094612Z-1-001/test/MCI/CI023\_S\_1247a115.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/MCI/CI002\_S\_0729a114.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/MCI/CI002\_S\_0729b114.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/MCI/CI002\_S\_0729a101.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/MCI/CI002\_S\_0729b100.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/MCI/CI082\_S\_0469a093.png',  
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 disease/test-20251010T094612Z-1-001/test/MCI/CI082\_S\_0469b094.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/MCI/CI130\_S\_0449a102.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/MCI/CI130\_S\_0449a103.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/MCI/CI068\_S\_0442b087.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/MCI/CI068\_S\_0442a087.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/MCI/CI128\_S\_1088a105.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/MCI/CI128\_S\_1088a107.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/MCI/CI023\_S\_1247a124.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/MCI/CI023\_S\_1247a123.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/MCI/CI136\_S\_0429a109.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/MCI/CI136\_S\_0429b110.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/MCI/CI053\_S\_0507a128.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/MCI/CI053\_S\_0507b128.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/MCI/CI023\_S\_0604b103.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/MCI/CI023\_S\_0604a102.png',  
 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/MCI/CI023\_S\_0604a103.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/MCI/CI018\_S\_0406a111.png',  
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 disease/test-20251010T094612Z-1-001/test/MCI/CI018\_S\_0406a112.png']  
 Duplicates: ['/kaggle/input/alzheimer-

disease/test-20251010T094612Z-1-001/test/MCI/CI136\_S\_0195a098.png',  
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disease/test-20251010T094612Z-1-001/test/MCI/CI136\_S\_0195b098.png']  
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disease/test-20251010T094612Z-1-001/test/MCI/CI023\_S\_1046b129.png']  
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'/kaggle/input/alzheimer-  
disease/test-20251010T094612Z-1-001/test/MCI/CI136\_S\_1227a105.png',  
'/kaggle/input/alzheimer-  
disease/test-20251010T094612Z-1-001/test/MCI/CI136\_S\_1227a102.png',  
'/kaggle/input/alzheimer-  
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'/kaggle/input/alzheimer-  
disease/test-20251010T094612Z-1-001/test/MCI/CI136\_S\_0429b088.png']  
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disease/test-20251010T094612Z-1-001/test/MCI/CI023\_S\_0613a132.png']  
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 '/kaggle/input/alzheimer-  
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 '/kaggle/input/alzheimer-  
 disease/test-20251010T094612Z-1-001/test/MCI/CI023\_S\_0376b118.png']  
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 disease/test-20251010T094612Z-1-001/test/MCI/CI023\_S\_1247a129.png']  
 Duplicates: ['/kaggle/input/alzheimer-  
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 disease/test-20251010T094612Z-1-001/test/MCI/CI136\_S\_1227a099.png']  
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 '/kaggle/input/alzheimer-

```
disease/test-20251010T094612Z-1-001/test/MCI/CI023_S_0331b094.png',
'/kaggle/input/alzheimer-
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'/kaggle/input/alzheimer-
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disease/test-20251010T094612Z-1-001/test/MCI/CI068_S_0478b094.png']
Duplicates: ['/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/MCI/CI002_S_0954b088.png',
'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/MCI/CI002_S_0954b089.png']
Duplicates: ['/kaggle/input/alzheimer-
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disease/test-20251010T094612Z-1-001/test/MCI/CI053_S_0507b099.png']
Duplicates: ['/kaggle/input/alzheimer-
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disease/test-20251010T094612Z-1-001/test/MCI/CI005_S_0448a114.png']
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'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/MCI/CI127_S_0397a119.png']
```

```
[9]: # Compute class counts
def plot_class_balance():
    train_counts = []
    test_counts = []
    for sub in subfolders:
        train_paths = get_image_paths(train_dir, sub)
        test_paths = get_image_paths(test_dir, sub)
        train_counts.append(len(train_paths))
        test_counts.append(len(test_paths))
```

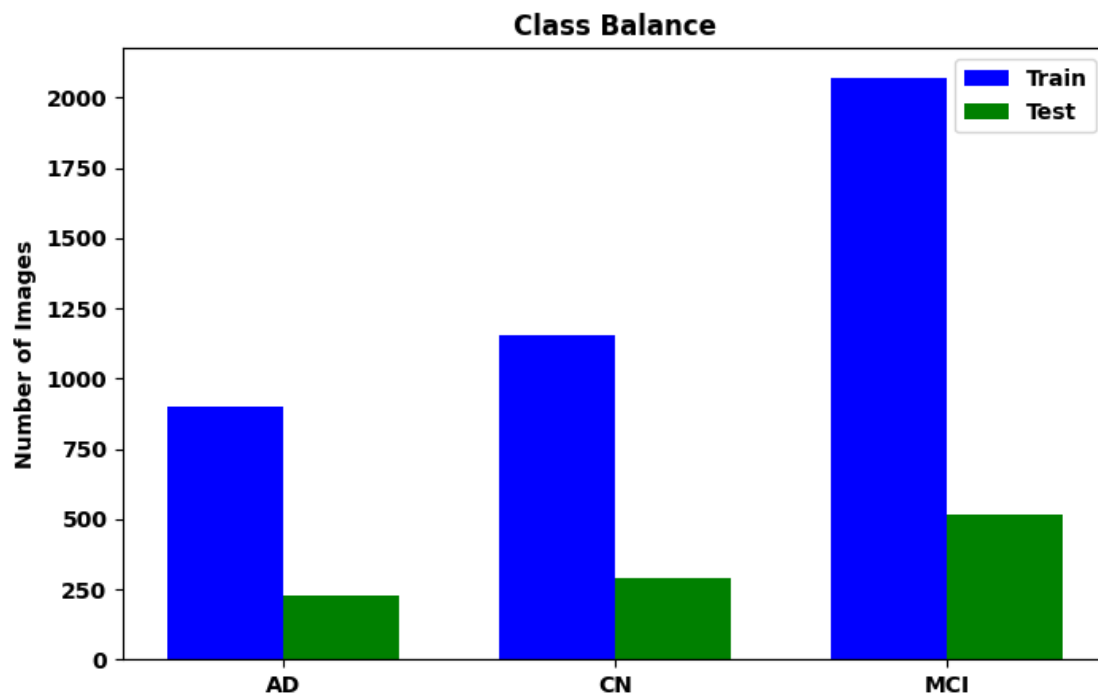
```

# Bar plot
x = np.arange(len(subfolders))
width = 0.35
fig, ax = plt.subplots(figsize=(8, 5))
ax.bar(x - width/2, train_counts, width, label='Train', color='blue')
ax.bar(x + width/2, test_counts, width, label='Test', color='green')
ax.set_xticks(x)
ax.set_xticklabels(subfolders)
ax.set_title('Class Balance')
ax.set_ylabel('Number of Images')
ax.legend()
plt.show()

print("Train Counts:", dict(zip(subfolders, train_counts)))
print("Test Counts:", dict(zip(subfolders, test_counts)))

plot_class_balance()

```



```

Train Counts: {'AD': 899, 'CN': 1152, 'MCI': 2072}
Test Counts: {'AD': 225, 'CN': 288, 'MCI': 518}

```

```

[10]: # Leakage check (assume filename has ID as prefix before first '_')
def check_leakage():

```

```

train_ids = set()
test_ids = set()
for sub in subfolders:
    for path in get_image_paths(train_dir, sub):
        fname = os.path.basename(path)
        id_ = fname.split('_')[0] if '_' in fname else fname
        train_ids.add(id_)
    for path in get_image_paths(test_dir, sub):
        fname = os.path.basename(path)
        id_ = fname.split('_')[0] if '_' in fname else fname
        test_ids.add(id_)

overlaps = train_ids.intersection(test_ids)
print(f"Leakage Check: {len(overlaps)} overlapping IDs (e.g., by source/
↪filename prefix). If >0, potential leakage.")
if overlaps:
    print("Examples:", list(overlaps)[:5])

check_leakage()

# Augmentation probe (manual implementations)
def augmentation_probe():
    for sub in subfolders:
        paths = get_image_paths(train_dir, sub)
        if not paths:
            continue
        img_path = random.choice(paths) # Random image
        img = np.array(Image.open(img_path).convert('RGB'))

        # Original
        plt.figure(figsize=(15, 10))
        plt.subplot(2, 3, 1)
        plt.imshow(img)
        plt.title(f'Original - {sub}')
        plt.axis('off')

        # Crop (center 80%)
        h, w = img.shape[:2]
        crop_h, crop_w = int(h*0.8), int(w*0.8)
        cropped = img[(h-crop_h)//2:(h-crop_h)//2+crop_h, (w-crop_w)//2:
↪(w-crop_w)//2+crop_w]
        plt.subplot(2, 3, 2)
        plt.imshow(cropped)
        plt.title('Crop')
        plt.axis('off')

        # Flip (horizontal)

```



```

    flipped = np.fliplr(img)
    plt.subplot(2, 3, 3)
    plt.imshow(flipped)
    plt.title('Flip')
    plt.axis('off')

    # Color Jitter (random brightness/contrast)
    jitter = (img.astype(float) * random.uniform(0.8, 1.2) + random.
↪uniform(-20, 20)).clip(0, 255).astype(np.uint8)
    plt.subplot(2, 3, 4)
    plt.imshow(jitter)
    plt.title('Color Jitter')
    plt.axis('off')

    # Blur (Gaussian)
    blurred = ndimage.gaussian_filter(img, sigma=1.5)
    plt.subplot(2, 3, 5)
    plt.imshow(blurred)
    plt.title('Blur')
    plt.axis('off')

    plt.suptitle(f'Augmentation Probe for {sub} - Safe: Flip/Crop_
↪(preserves features); Harmful: Heavy Blur/Jitter (may distort MRI details)')
    plt.show()

augmentation_probe()

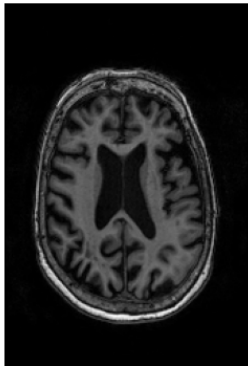
```

Leakage Check: 61 overlapping IDs (e.g., by source/filename prefix). If >0, potential leakage.

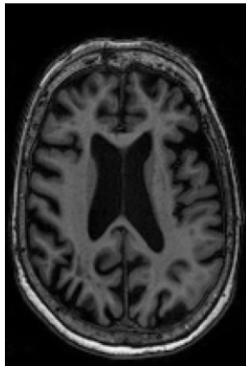
Examples: ['AD136', 'CI016', 'CN126', 'CN068', 'CN082']

Augmentation Probe for AD - Safe: Flip/Crop (preserves features); Harmful: Heavy Blur/Jitter (may distort MRI details)

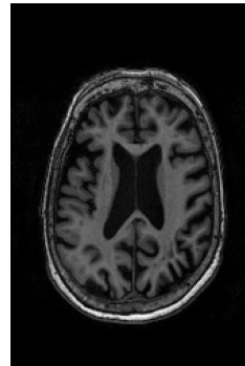
**Original - AD**



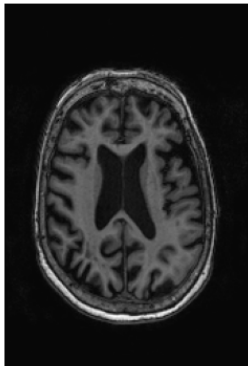
**Crop**



**Flip**



**Color Jitter**

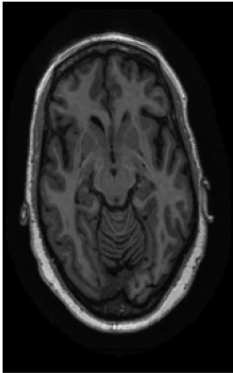


**Blur**

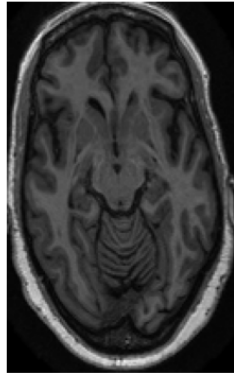


Augmentation Probe for CN - Safe: Flip/Crop (preserves features); Harmful: Heavy Blur/Jitter (may distort MRI details)

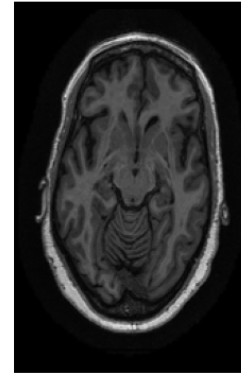
**Original - CN**



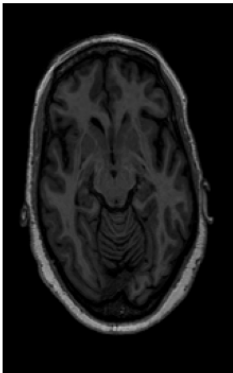
**Crop**



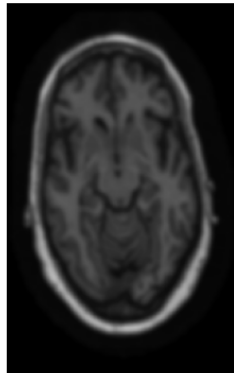
**Flip**



**Color Jitter**

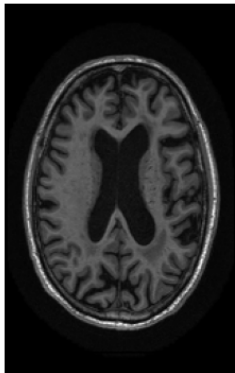


**Blur**

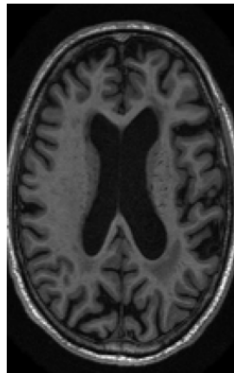


Augmentation Probe for MCI - Safe: Flip/Crop (preserves features); Harmful: Heavy Blur/jitter (may distort MRI details)

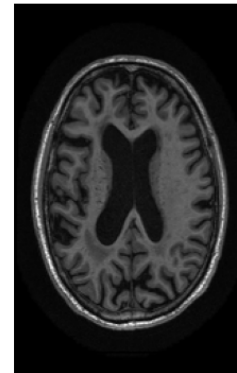
**Original - MCI**



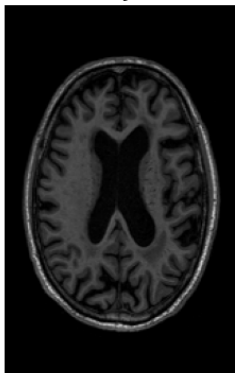
**Crop**



**Flip**



**Color Jitter**



**Blur**

