

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"]

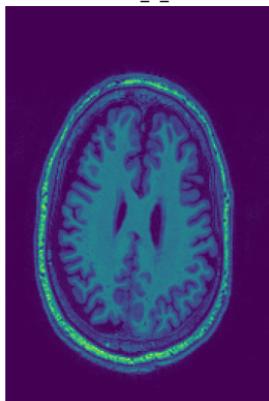
# Function to show 3 images from each subfolder
def show_images_from_dir(path, n=3):
    files = [f for f in os.listdir(path) if f.lower().endswith('.png', '.jpg', '.jpeg')]
    files = files[:n] # Take only the first 3 images
    plt.figure(figsize=(15, 5))
    for i, file in enumerate(files):
        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))

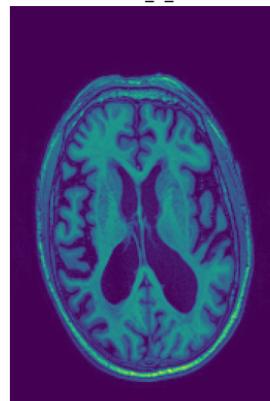
# Display images from train directory
for subfolder in subfolders:
    print(f"{subfolder} (Train)")
    show_images_from_dir(os.path.join(train_dir, subfolder))
```

AD (Test)

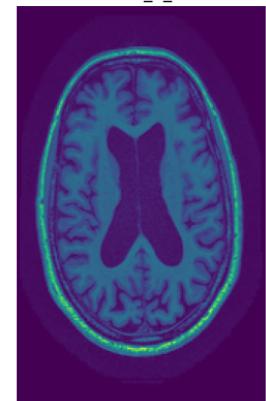
AD002_S_08



AD136_S_04

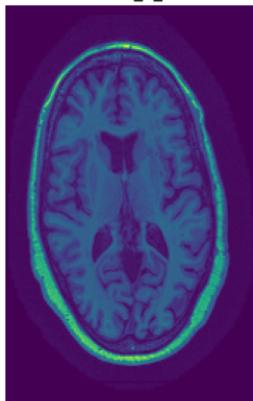


AD021_S_07

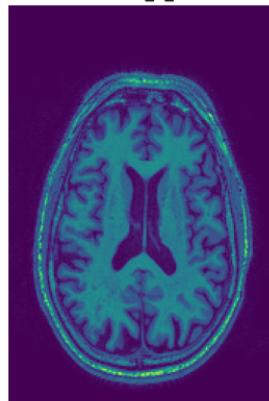


CN (Test)

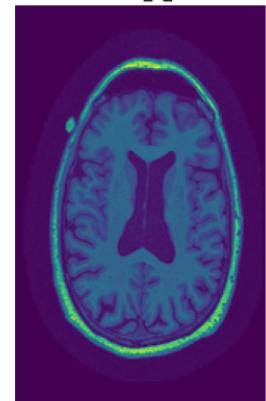
CN023_S_00



CN002_S_05

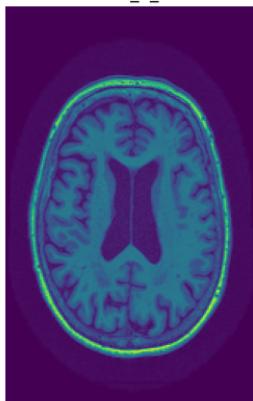


CN023_S_09

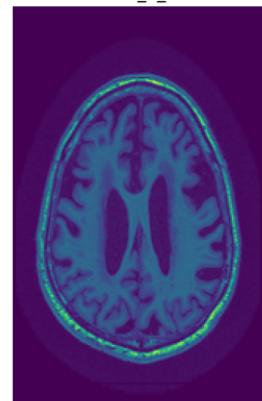


MCI (Test)

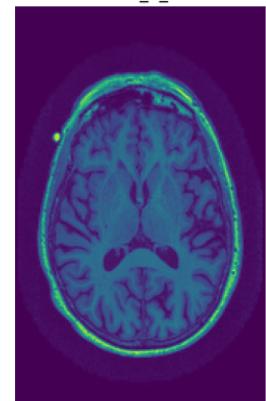
CI128_S_11



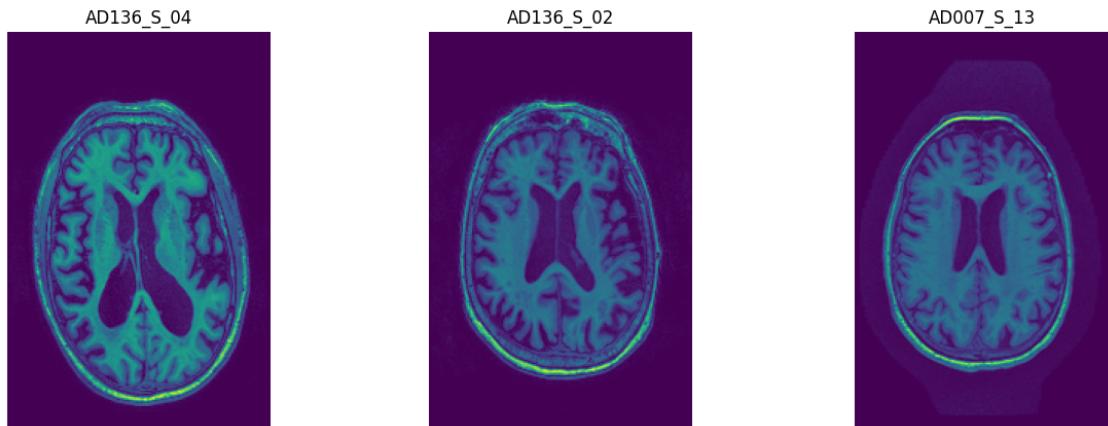
CI027_S_12



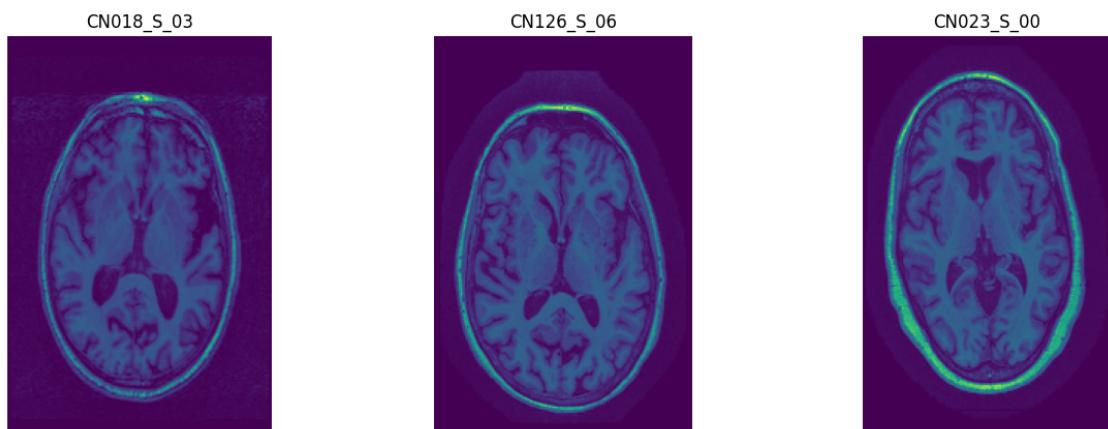
CI067_S_06



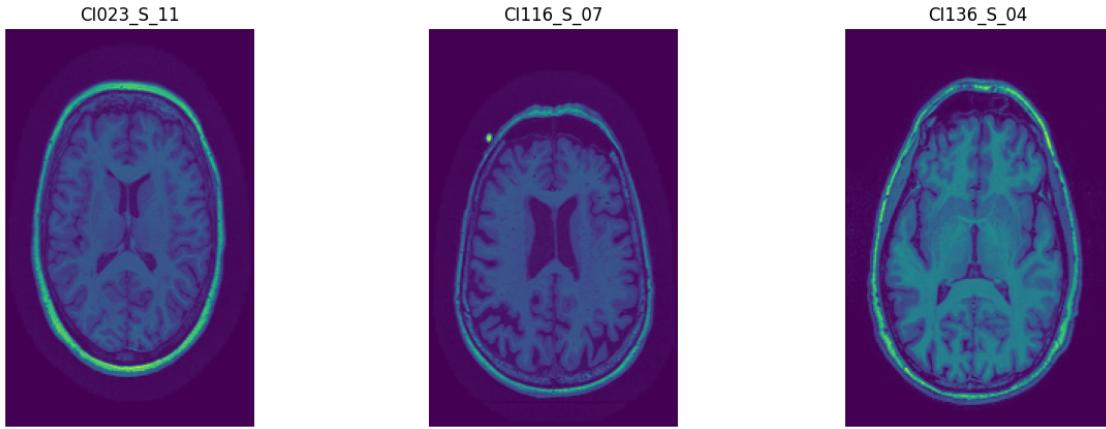
AD (Train)



CN (Train)



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()

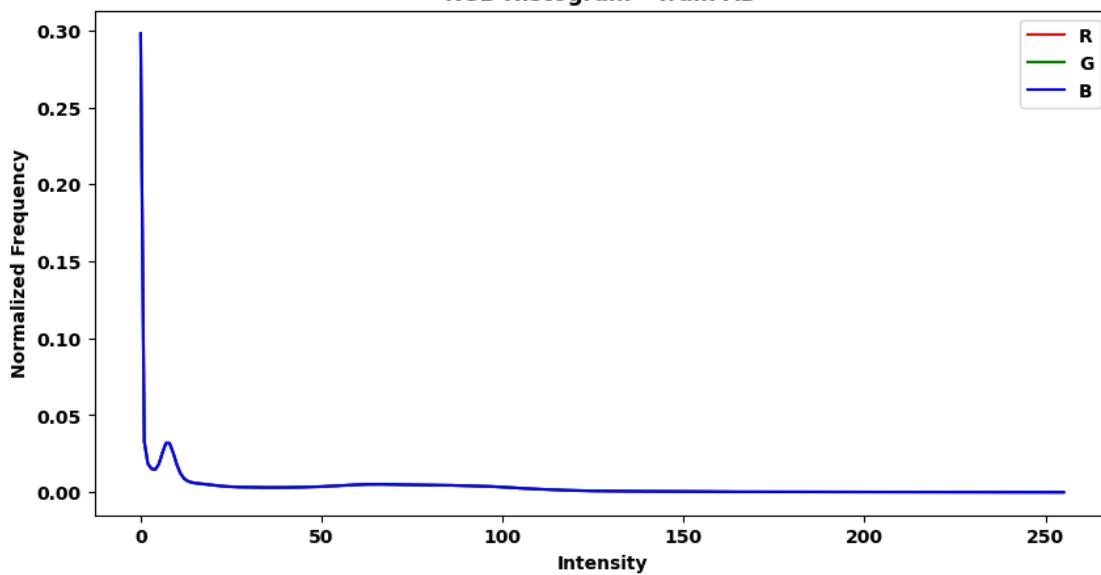
plt.figure(figsize=(10, 5))
plt.boxplot(np.array(per_image_rgb_stds), labels=['R', 'G', 'B'])
plt.title(f'Per-Image RGB Stds Distribution - {dataset_type} {class_name}')
plt.show()

# 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)

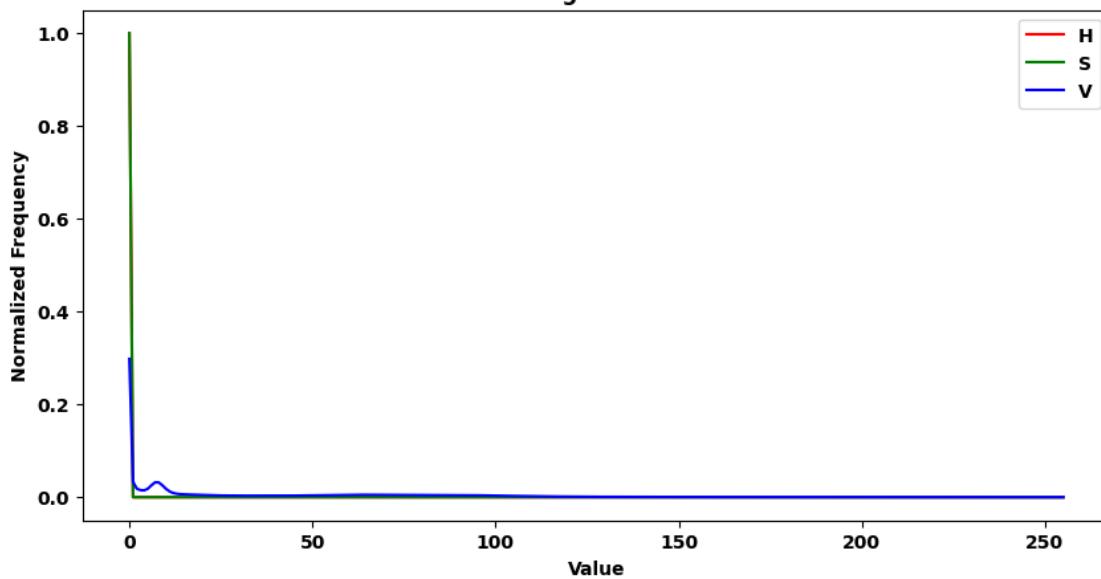
```

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

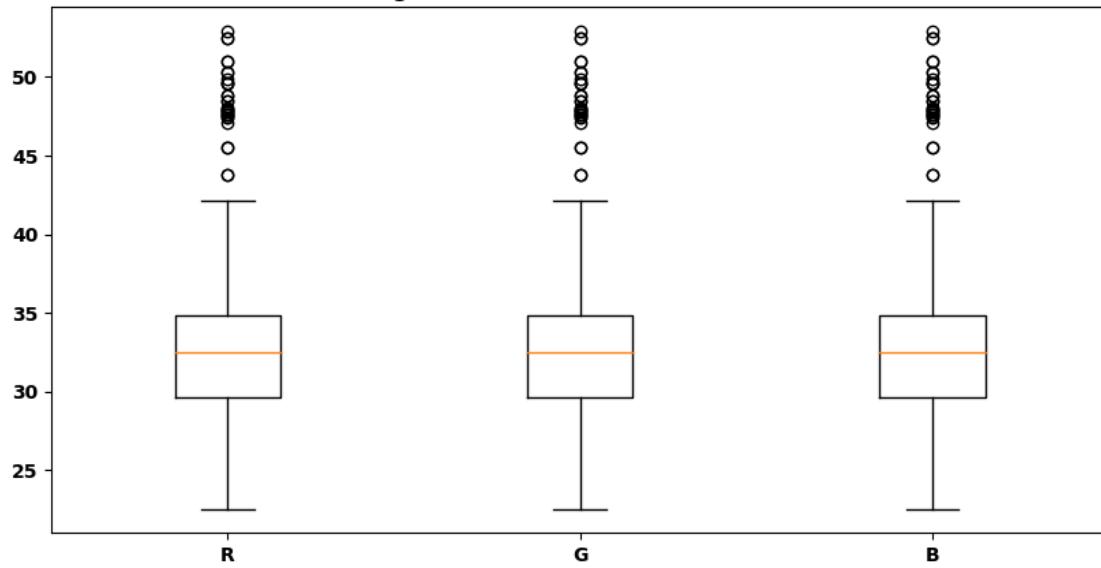
RGB Histogram - Train AD



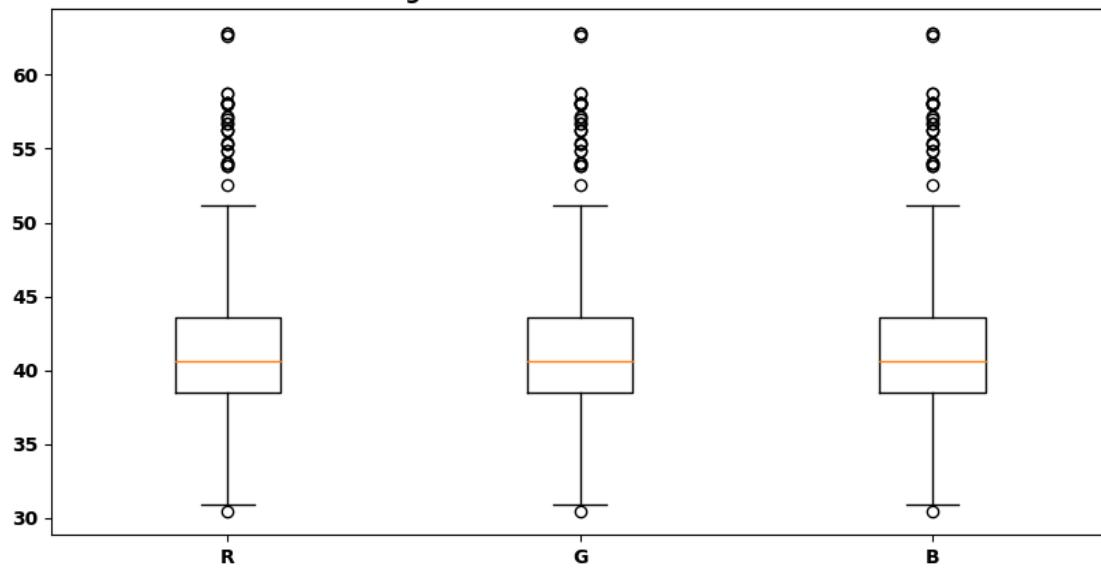
HSV Histogram - Train AD



Per-Image RGB Means Distribution - Train AD

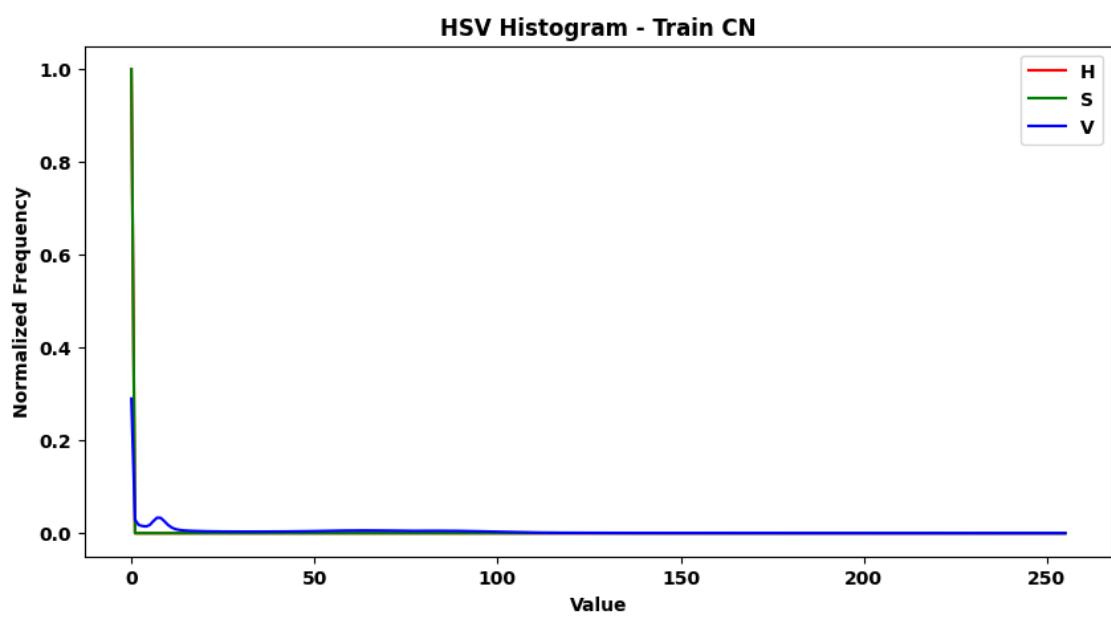
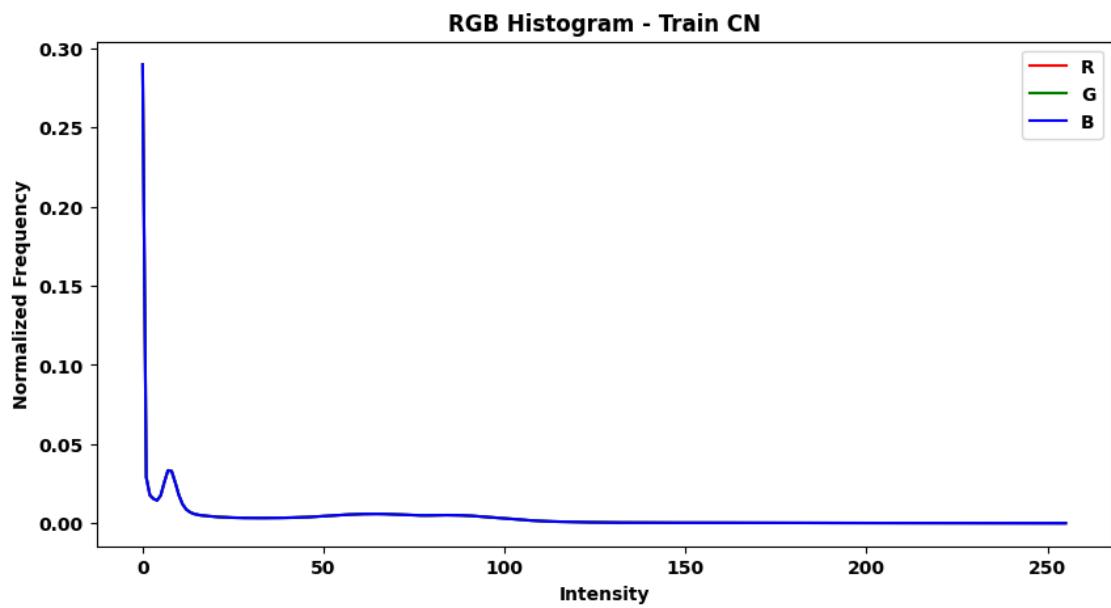


Per-Image RGB Stds Distribution - Train AD

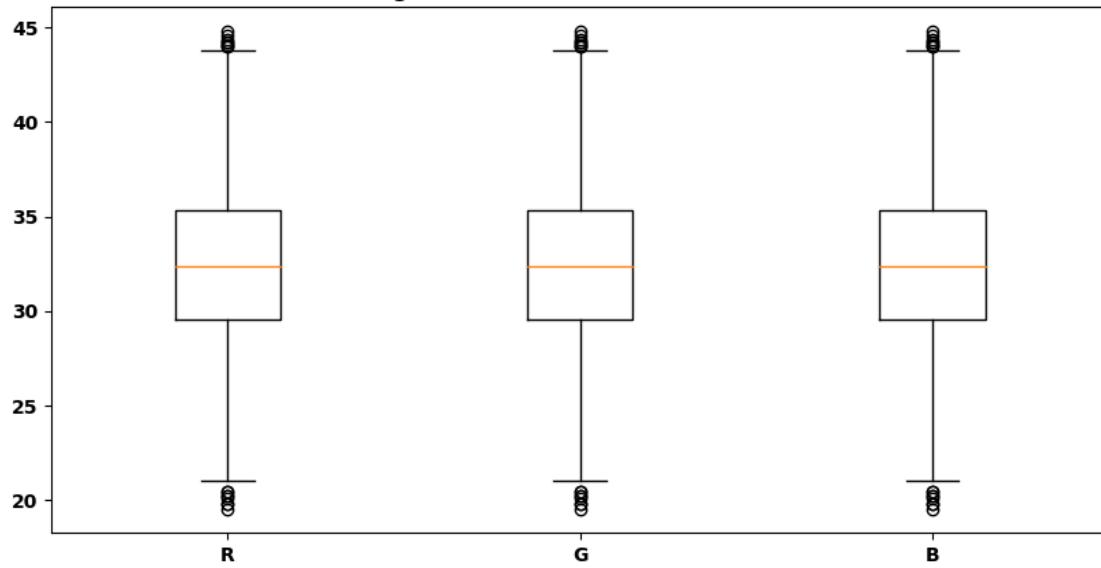


Train - CN: RGB Mean [32.45573519 32.45573519 32.45573519], Std [39.81537552 39.81537552 39.81537552]

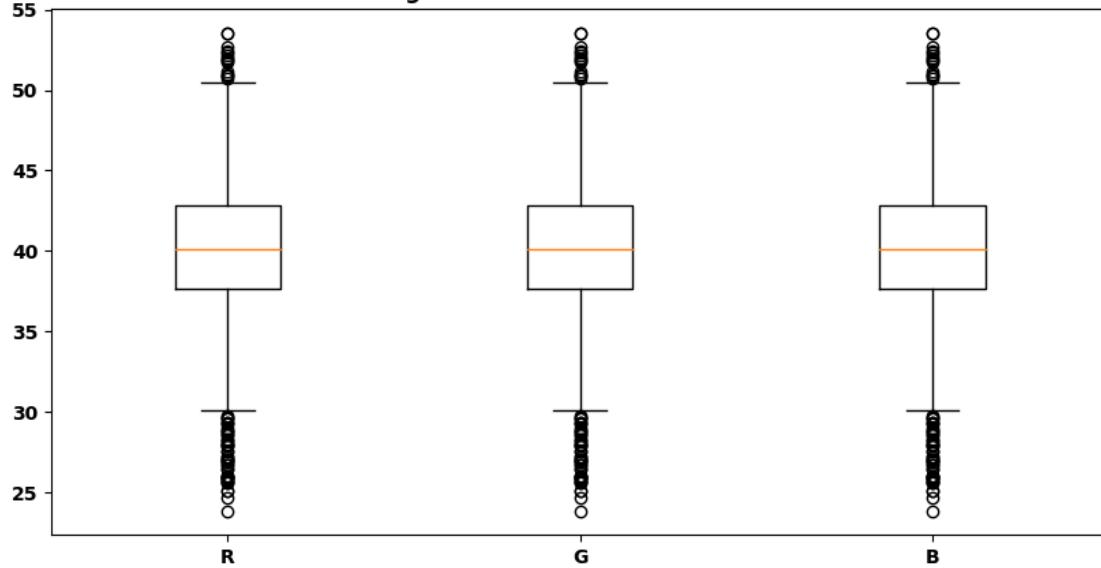
Train - CN: Brightness Mean 32.45573518960173, Contrast Mean 39.815375524680924
Train - CN: Avg Saturation Clipping Fraction 0.0



Per-Image RGB Means Distribution - Train CN



Per-Image RGB Stds Distribution - Train CN

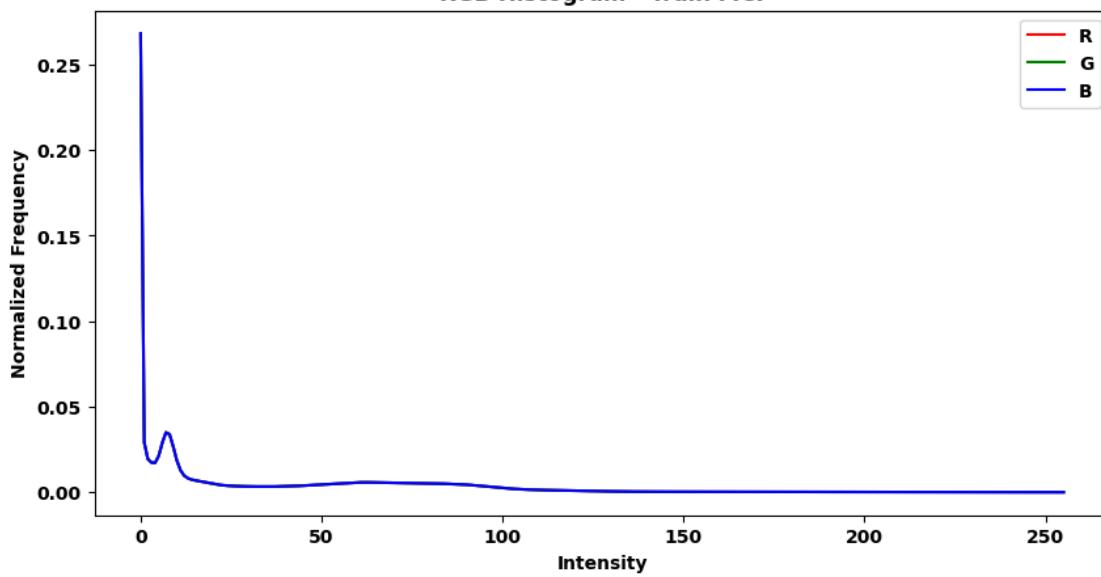


Train - MCI: RGB Mean [31.80549625 31.80549625 31.80549625], Std [38.97000707 38.97000707 38.97000707]

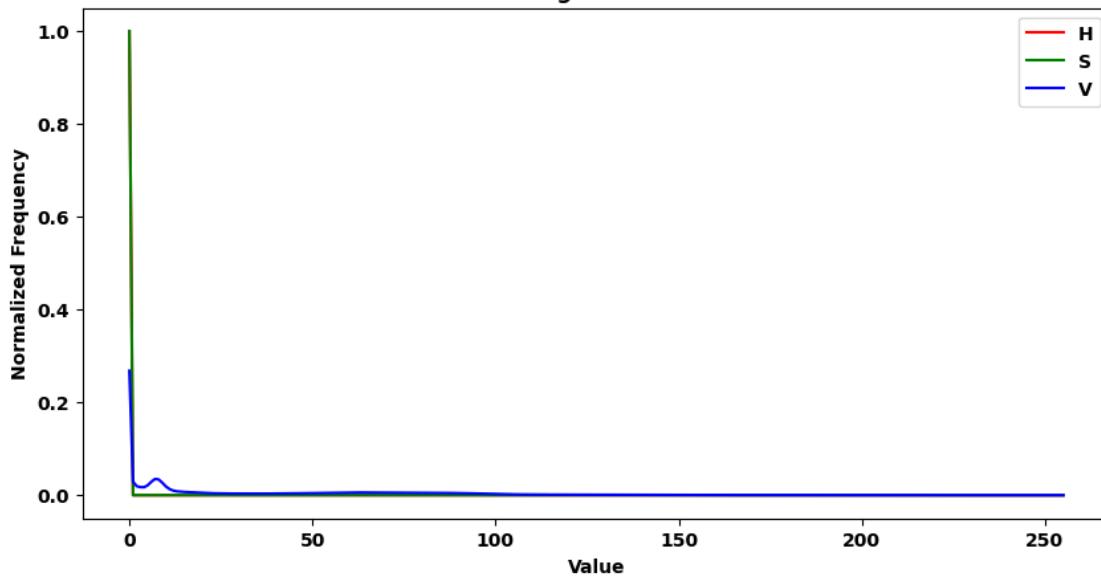
Train - MCI: Brightness Mean 31.805496254601, Contrast Mean 38.97000707295796

Train - MCI: Avg Saturation Clipping Fraction 0.0

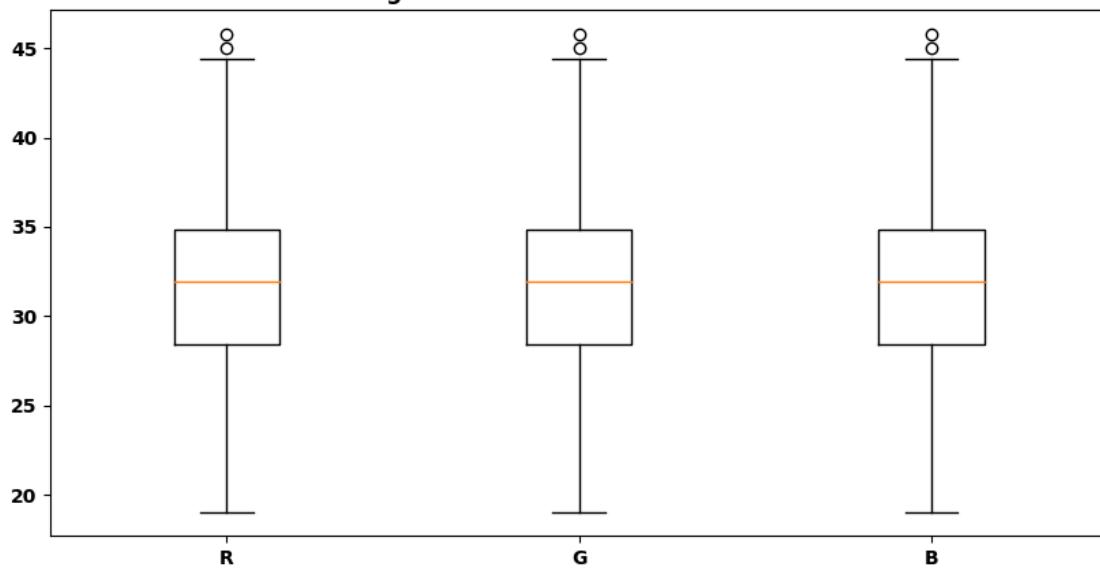
RGB Histogram - Train MCI



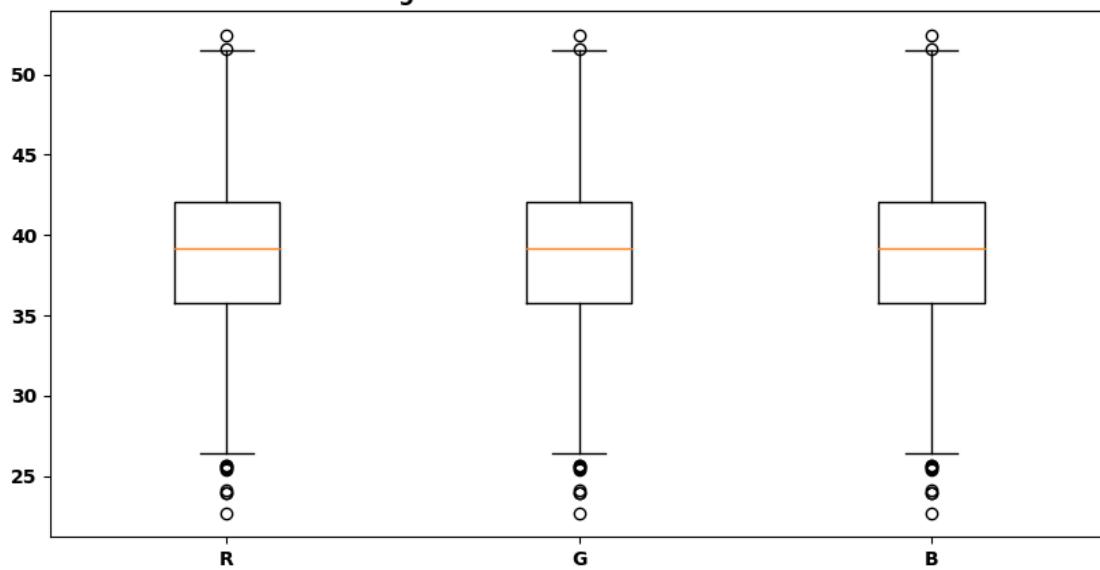
HSV Histogram - Train MCI



Per-Image RGB Means Distribution - Train MCI



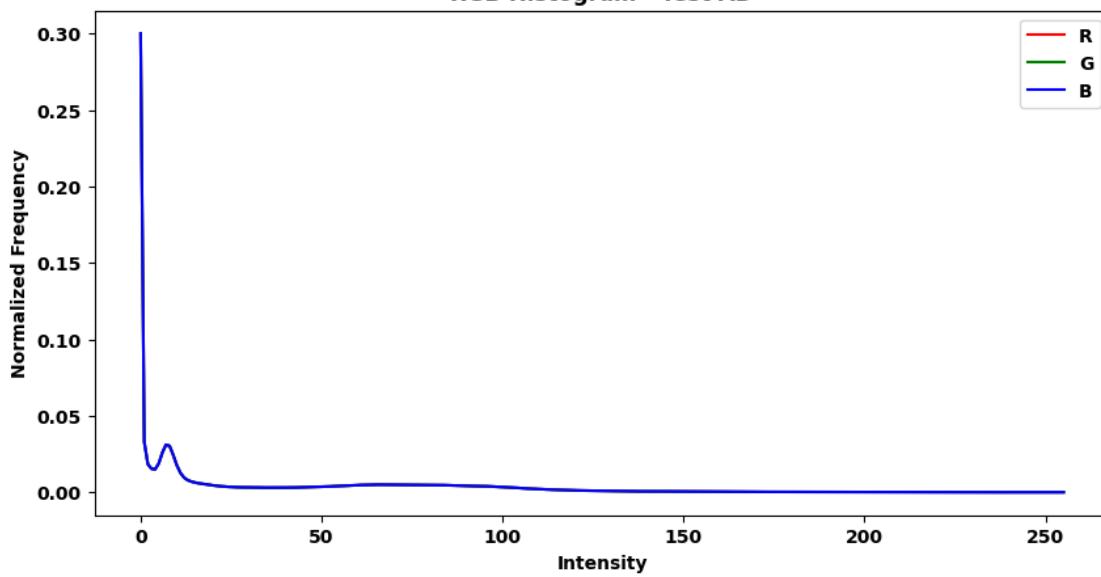
Per-Image RGB Stds Distribution - Train MCI



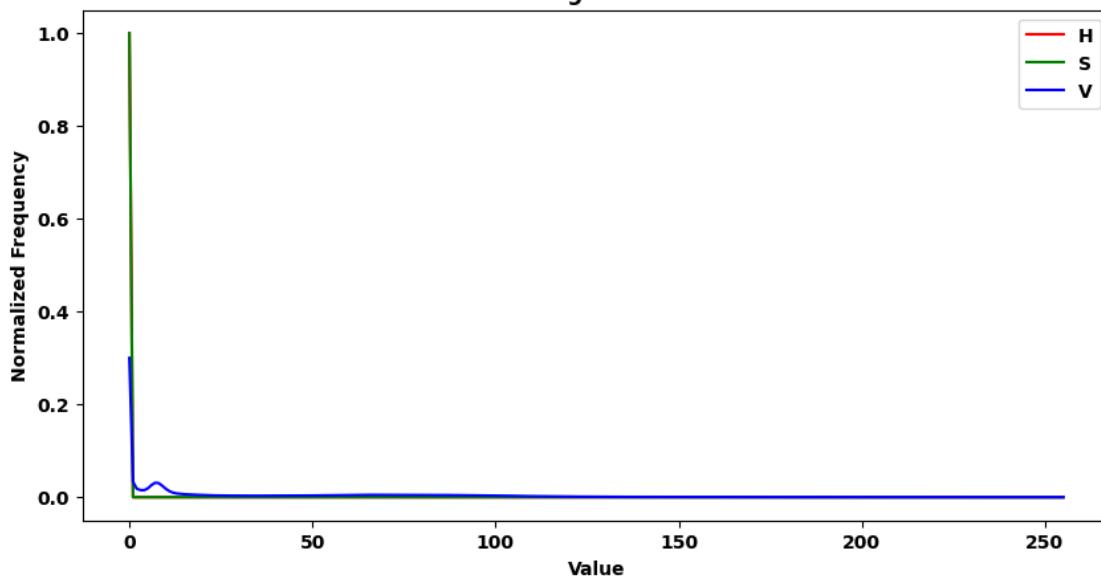
Test - AD: RGB Mean [32.82031287 32.82031287 32.82031287], Std [41.5914131
41.5914131 41.5914131]

Test - AD: Brightness Mean 32.82031286743174, Contrast Mean 41.5914131038512
Test - AD: Avg Saturation Clipping Fraction 0.0

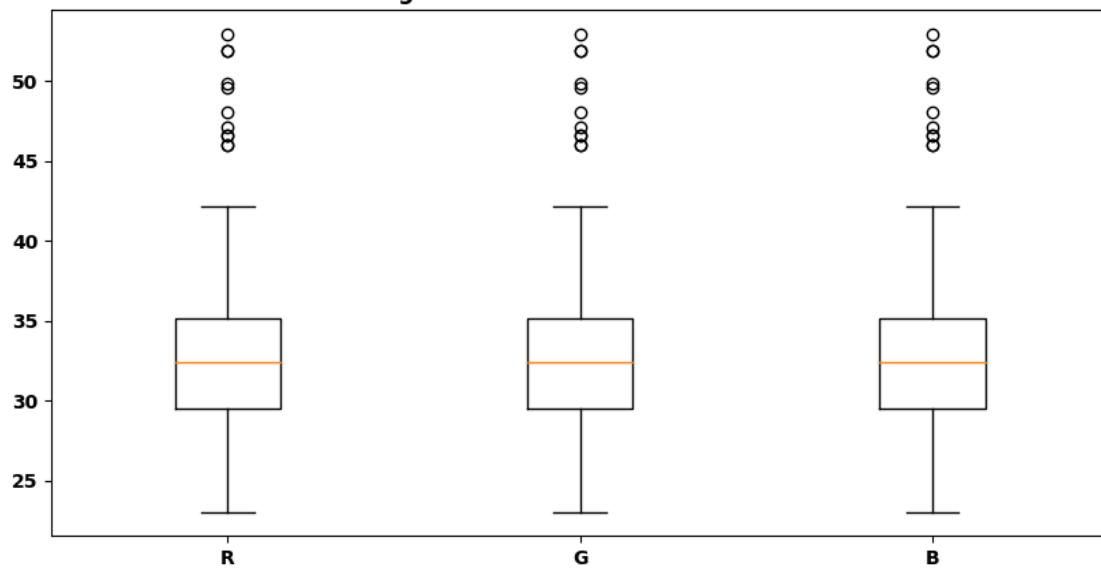
RGB Histogram - Test AD



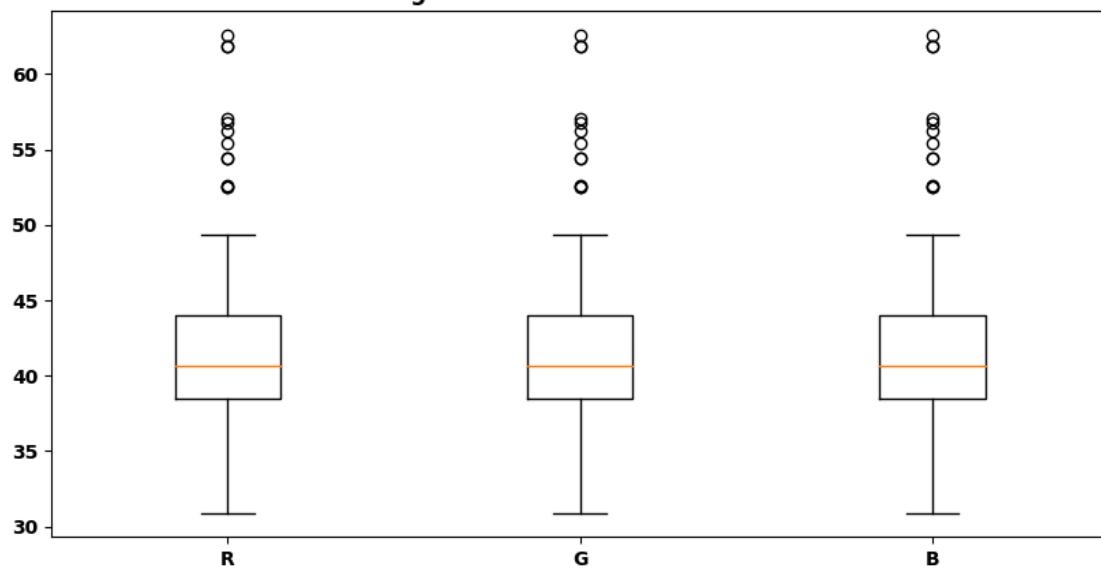
HSV Histogram - Test AD



Per-Image RGB Means Distribution - Test AD

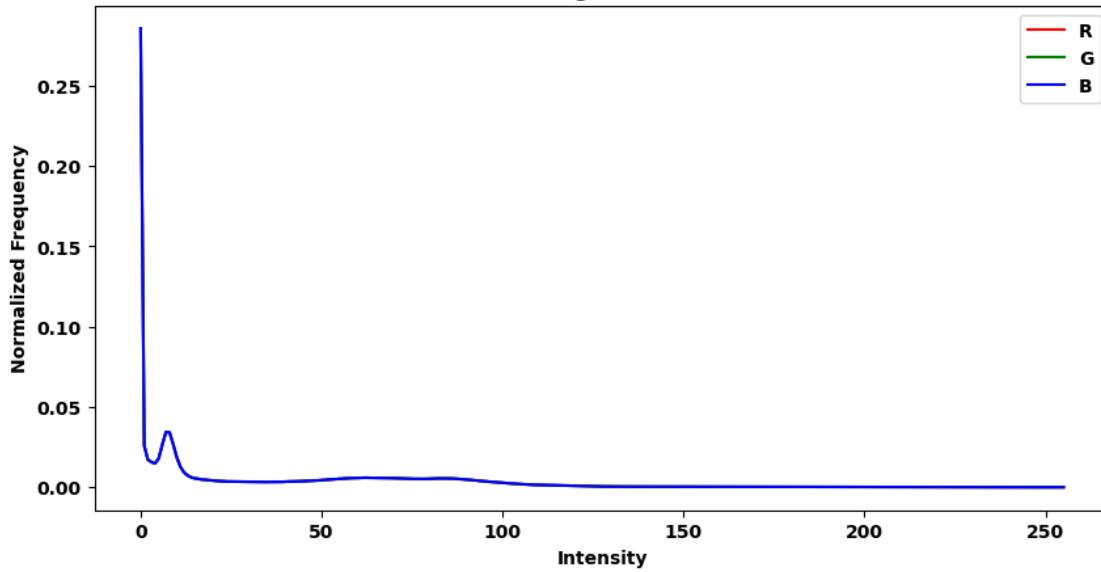


Per-Image RGB Stds Distribution - Test AD

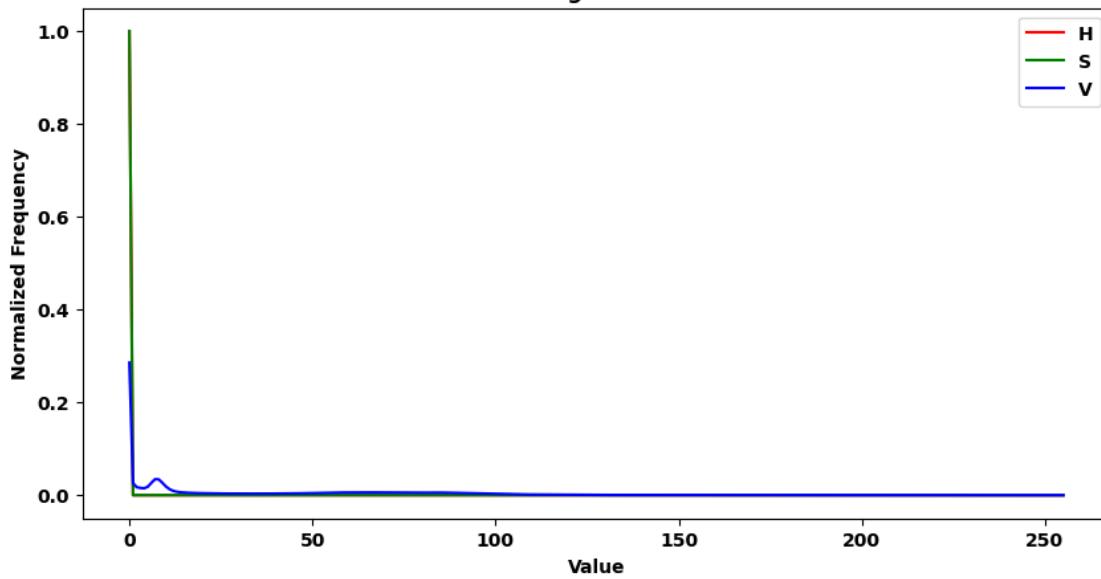


Test - CN: RGB Mean [32.50435488 32.50435488 32.50435488], Std [39.60195743 39.60195743 39.60195743]
Test - CN: Brightness Mean 32.50435487522047, Contrast Mean 39.601957426802976
Test - CN: Avg Saturation Clipping Fraction 0.0

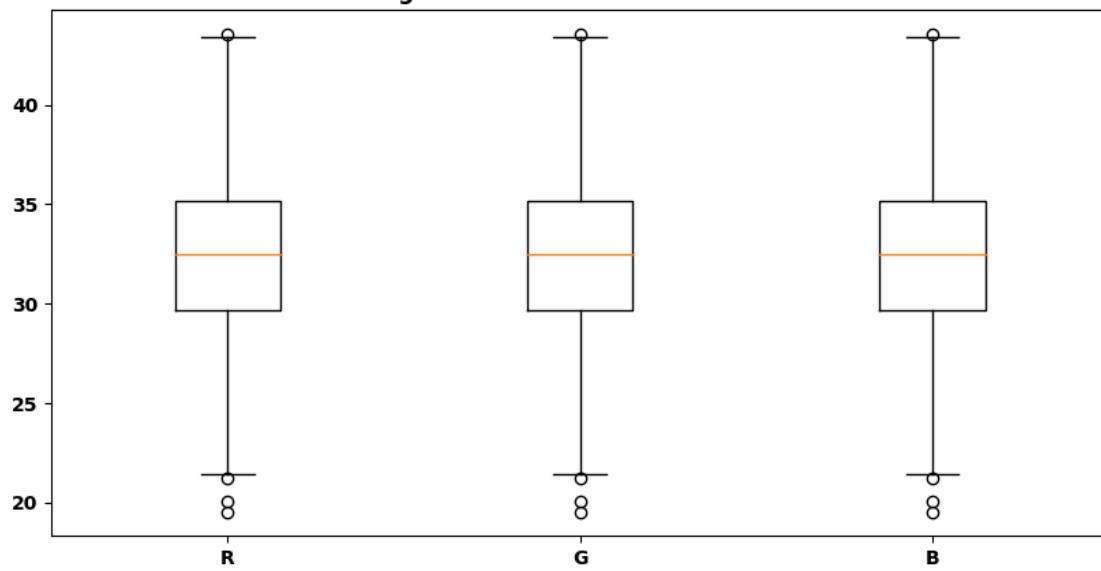
RGB Histogram - Test CN



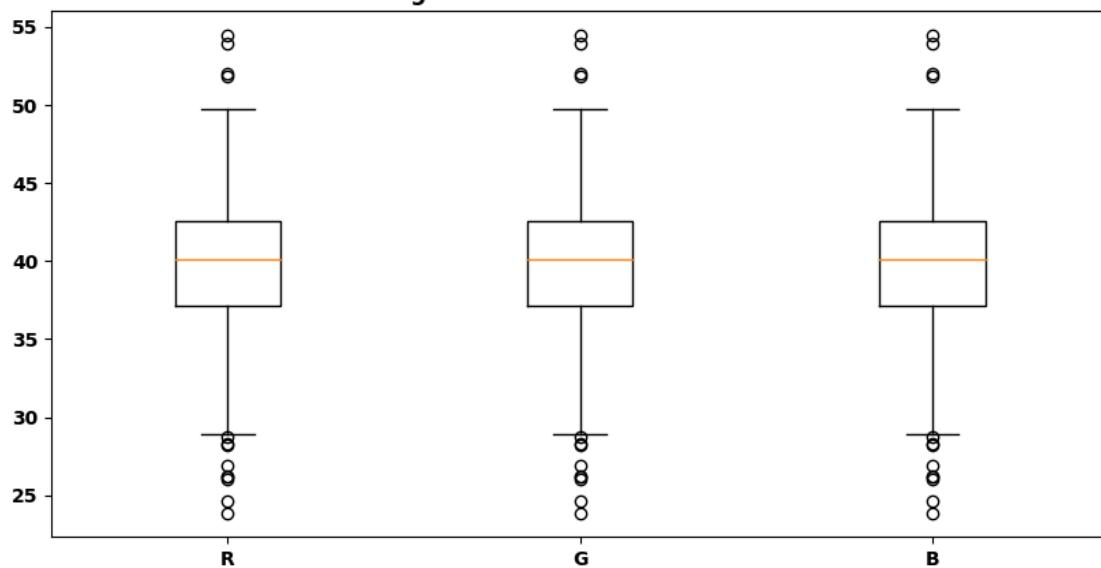
HSV Histogram - Test CN



Per-Image RGB Means Distribution - Test CN



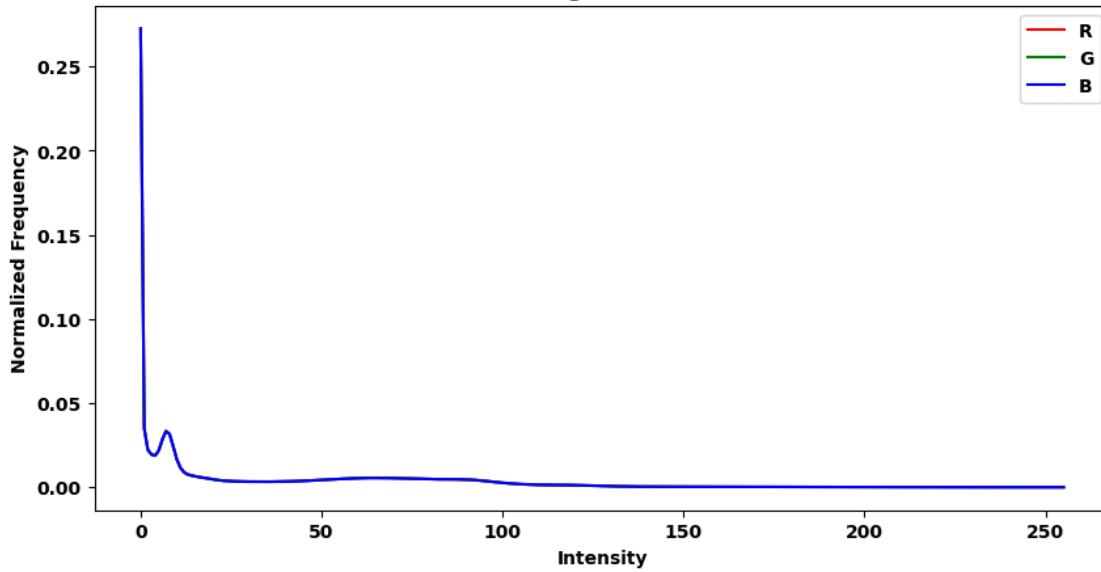
Per-Image RGB Stds Distribution - Test CN



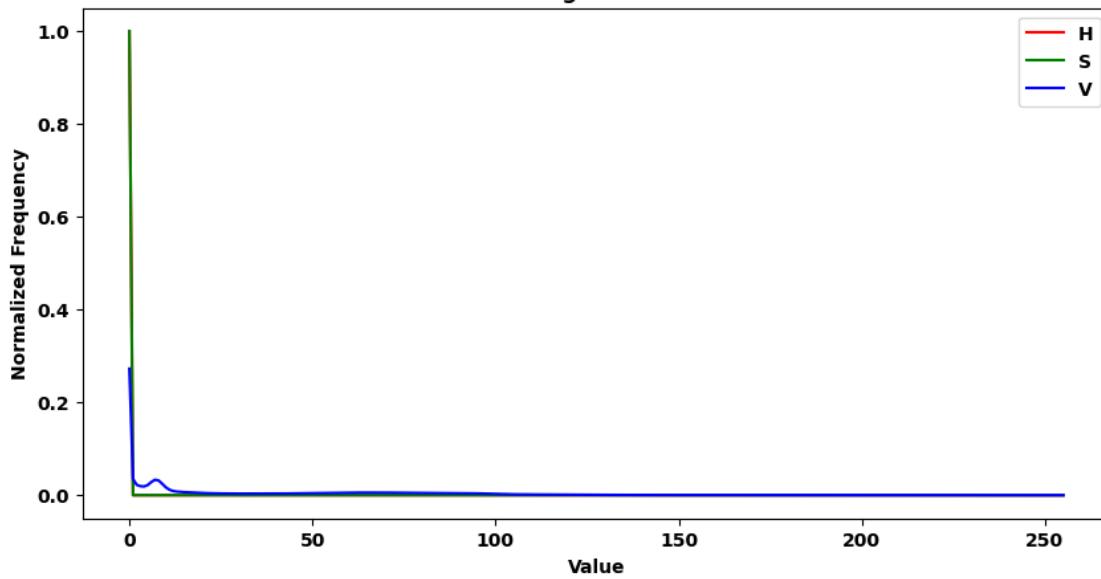
Test - MCI: RGB Mean [31.83111587 31.83111587 31.83111587], Std [39.36362054 39.36362054 39.36362054]

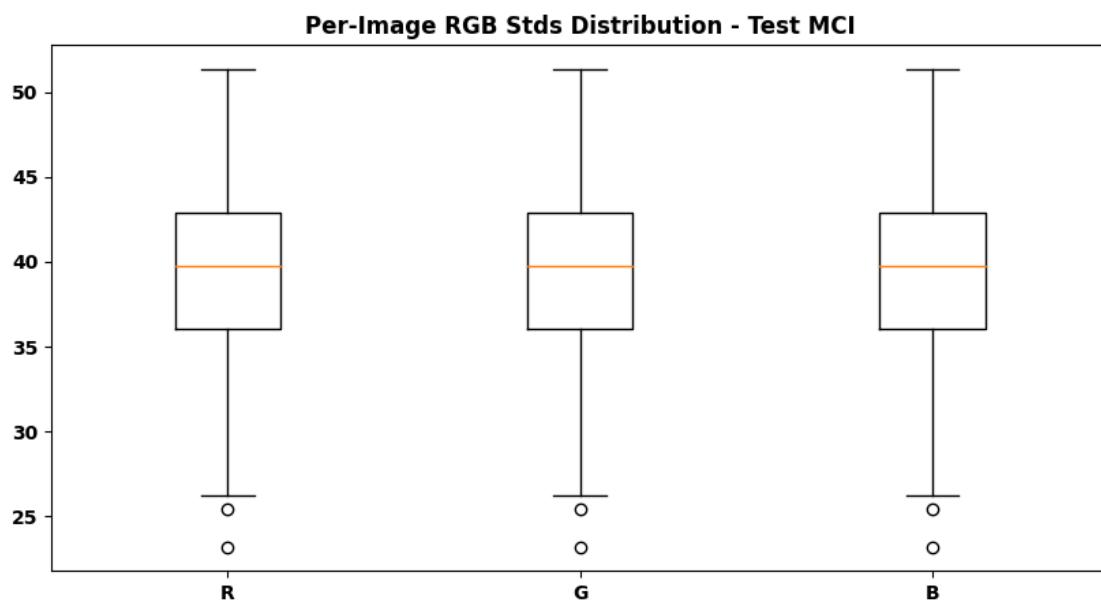
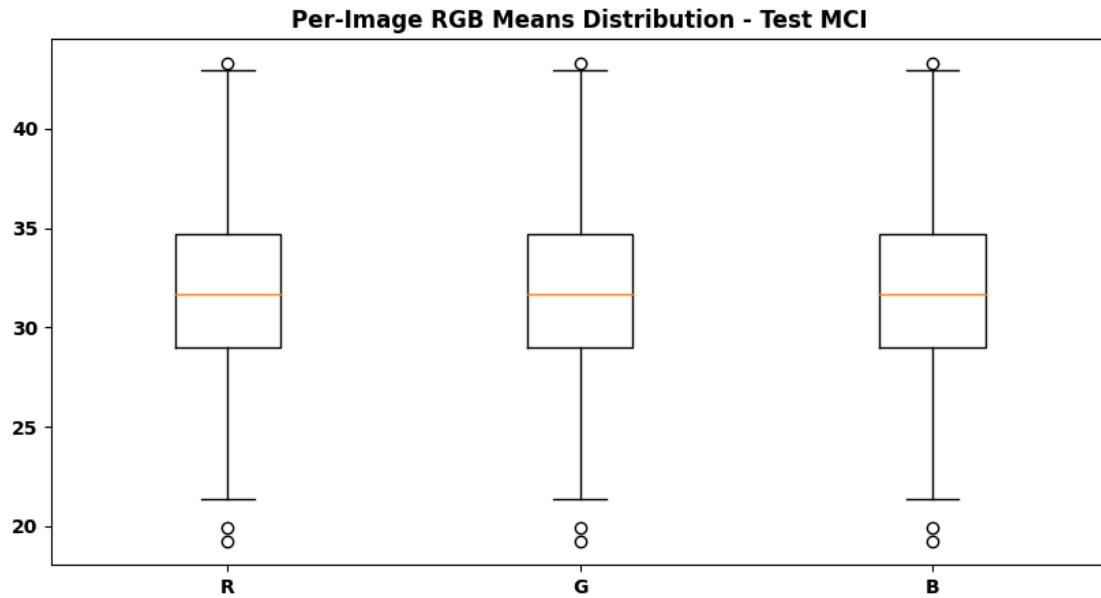
Test - MCI: Brightness Mean 31.831115868626625, Contrast Mean 39.36362054068896
Test - MCI: Avg Saturation Clipping Fraction 0.0

RGB Histogram - Test MCI



HSV Histogram - Test MCI





```
[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()
```

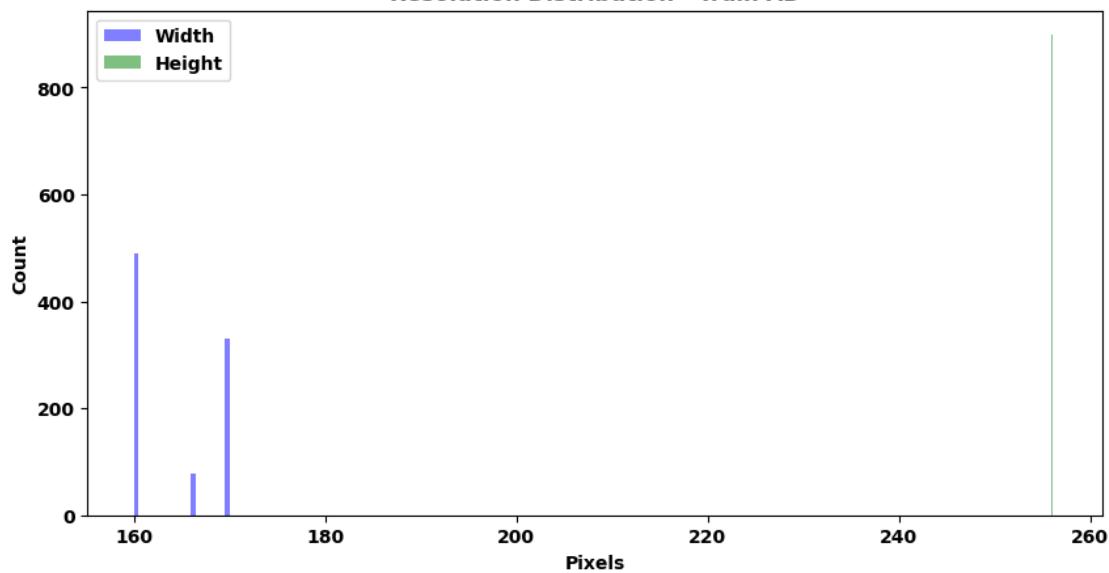
Run for train and test

```

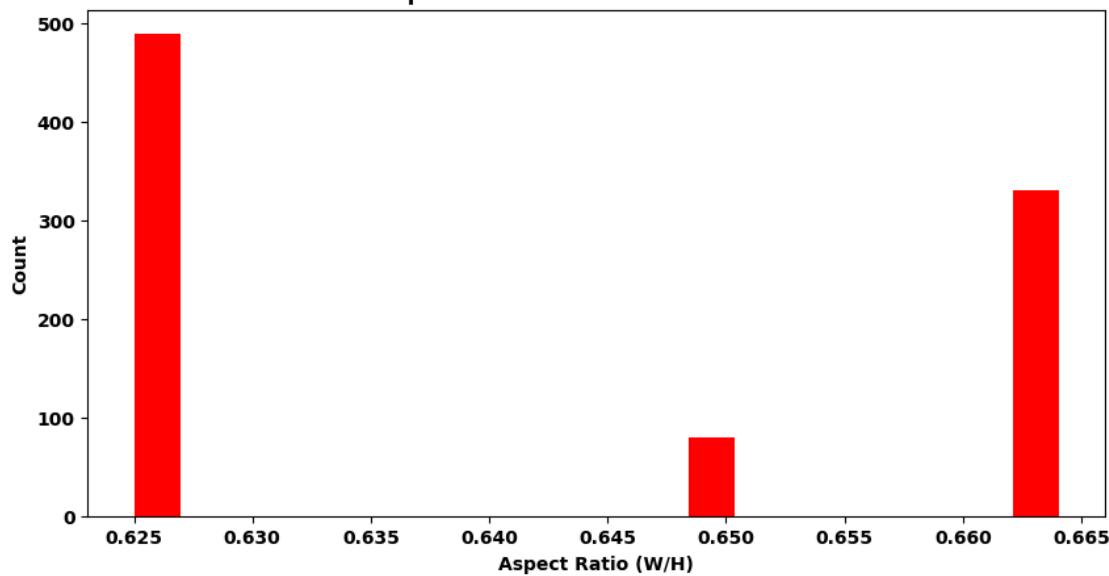
for dataset_type, base_dir in [("Train", train_dir), ("Test", test_dir)]:
    for sub in subfolders:
        paths = get_image_paths(base_dir, sub)
        compute_resolution_stats(paths, sub, dataset_type)
```

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.

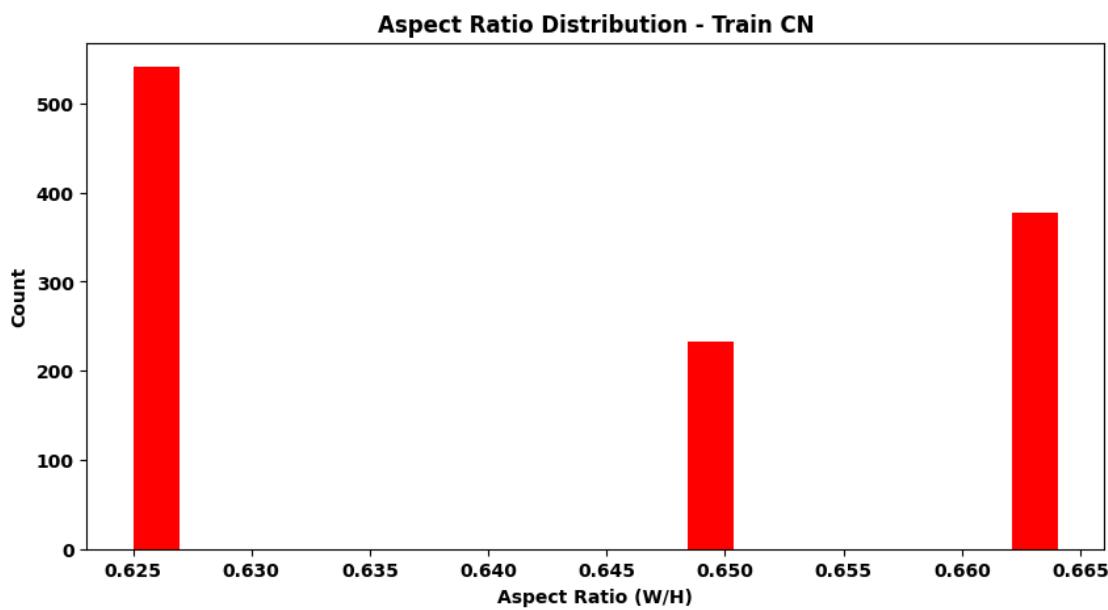
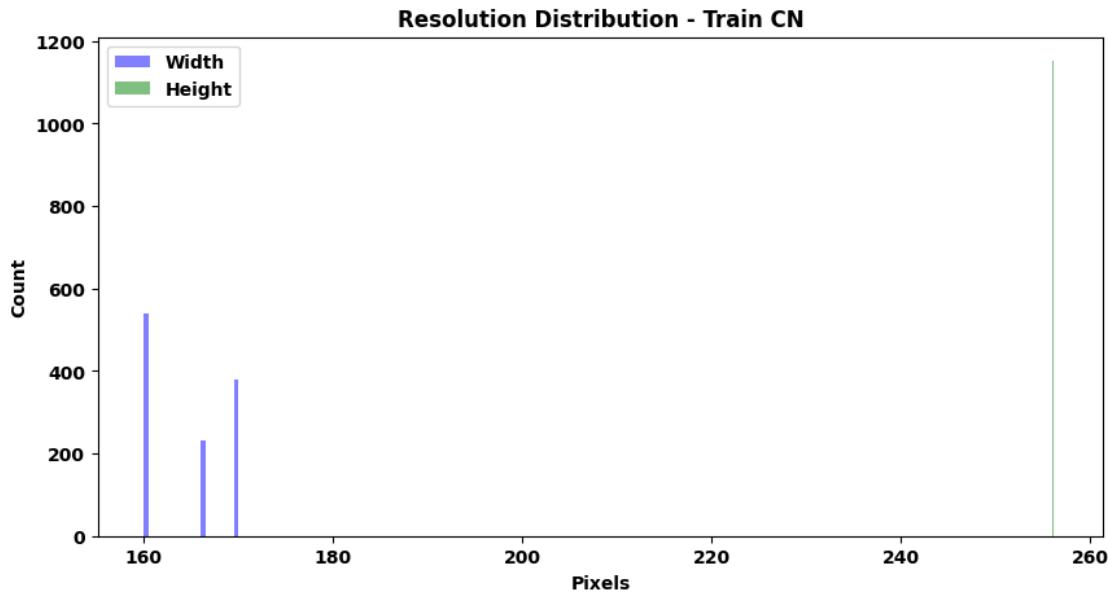
Resolution Distribution - Train AD



Aspect Ratio Distribution - Train AD

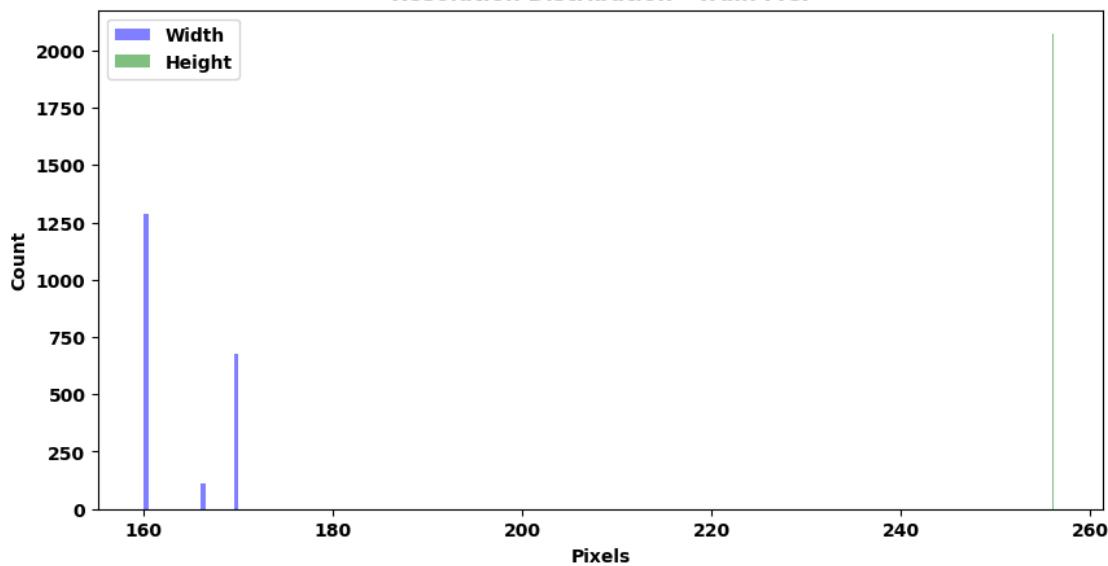


Train - CN: Median Resolution 166.0x256.0, Mean Aspect Ratio 0.6425577799479166
Suggested Strategy for CN: Resize to 166.0x256.0 with padding to preserve aspect ratio. Class-wise effects: If variances high, padding prevents distortion in CN.

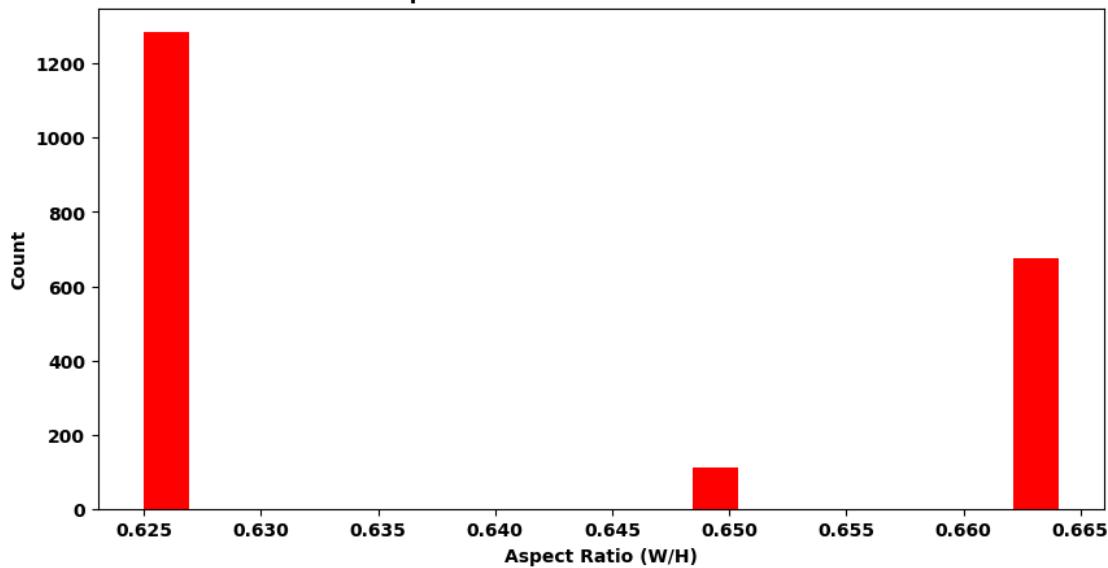


Train - MCI: Median Resolution 160.0x256.0, Mean Aspect Ratio 0.638999909507722
Suggested Strategy for MCI: Resize to 160.0x256.0 with padding to preserve aspect ratio. Class-wise effects: If variances high, padding prevents distortion in MCI.

Resolution Distribution - Train MCI



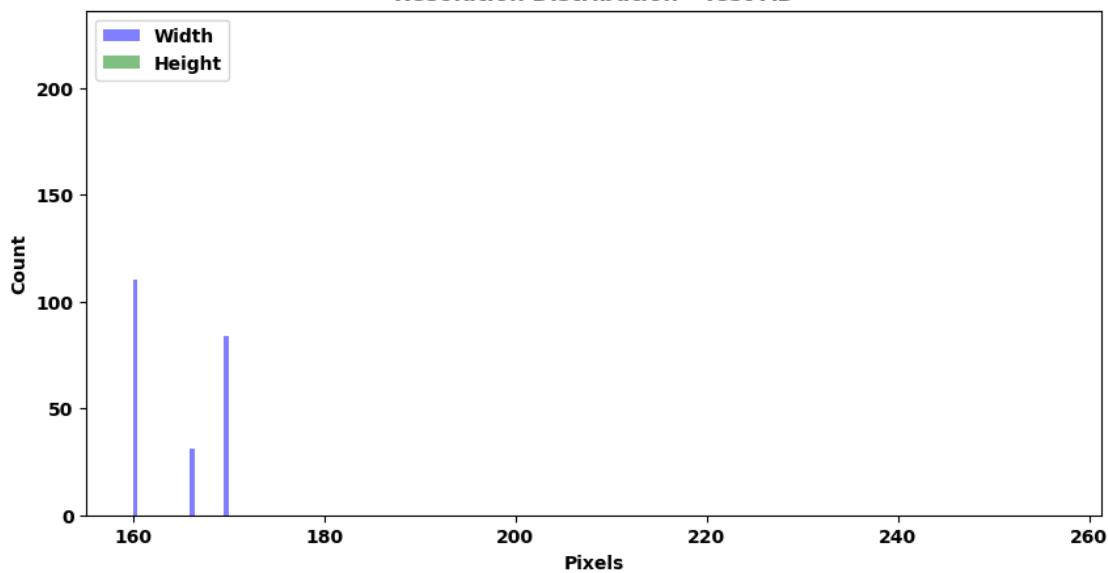
Aspect Ratio Distribution - Train MCI



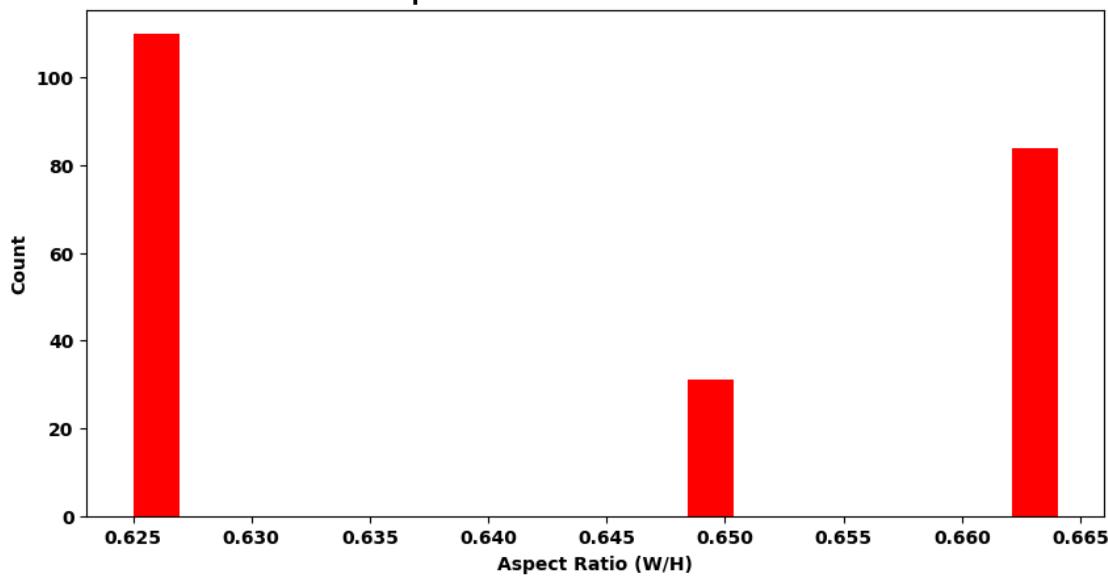
Test - AD: Median Resolution 166.0x256.0, Mean Aspect Ratio 0.6428125

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.

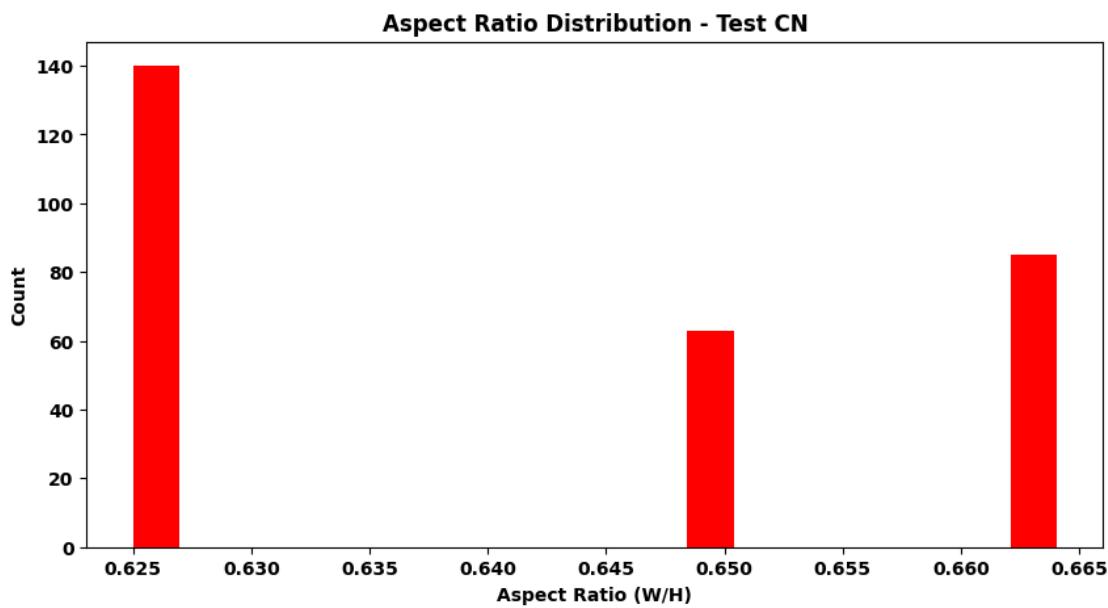
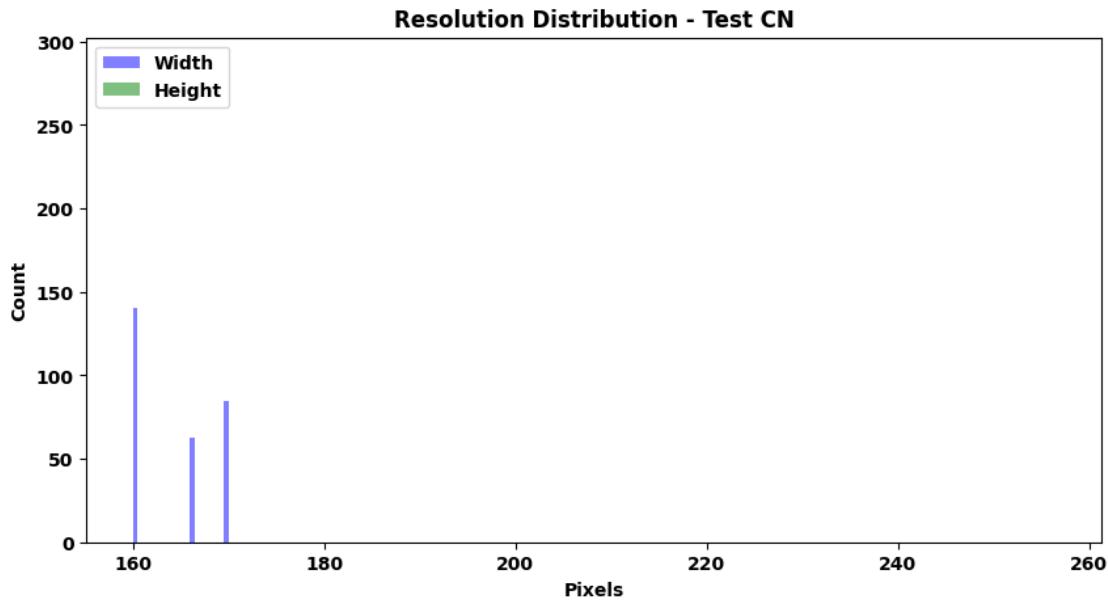
Resolution Distribution - Test AD



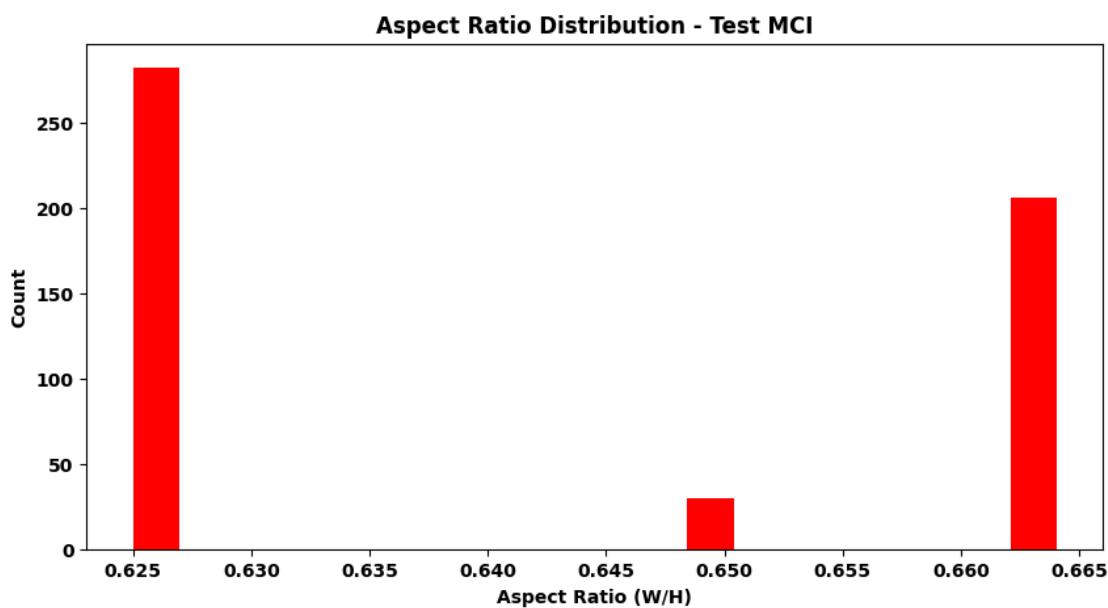
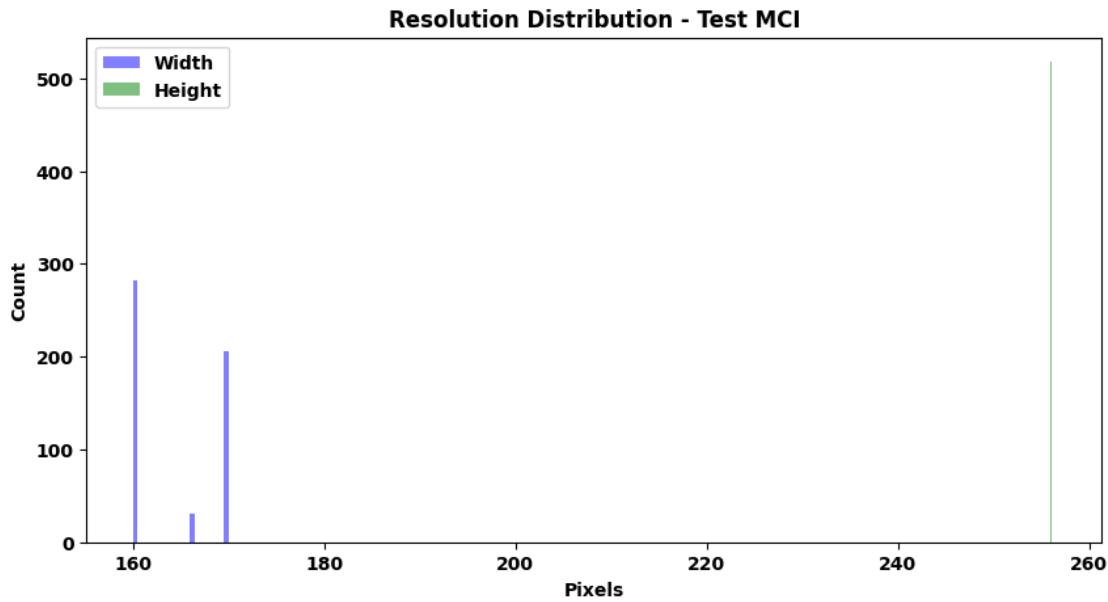
Aspect Ratio Distribution - Test AD



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)}')

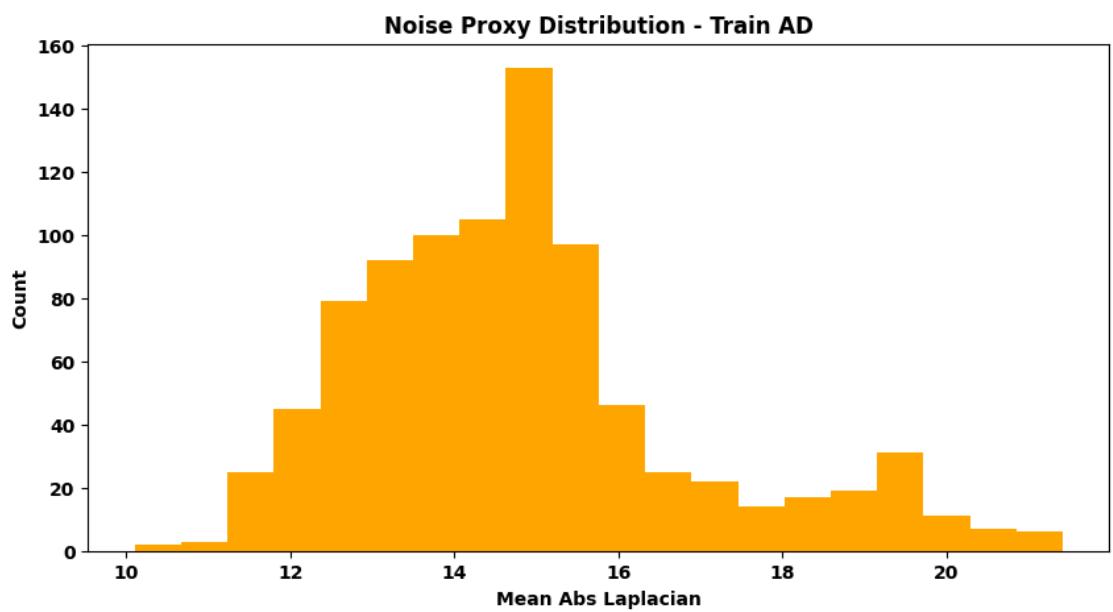
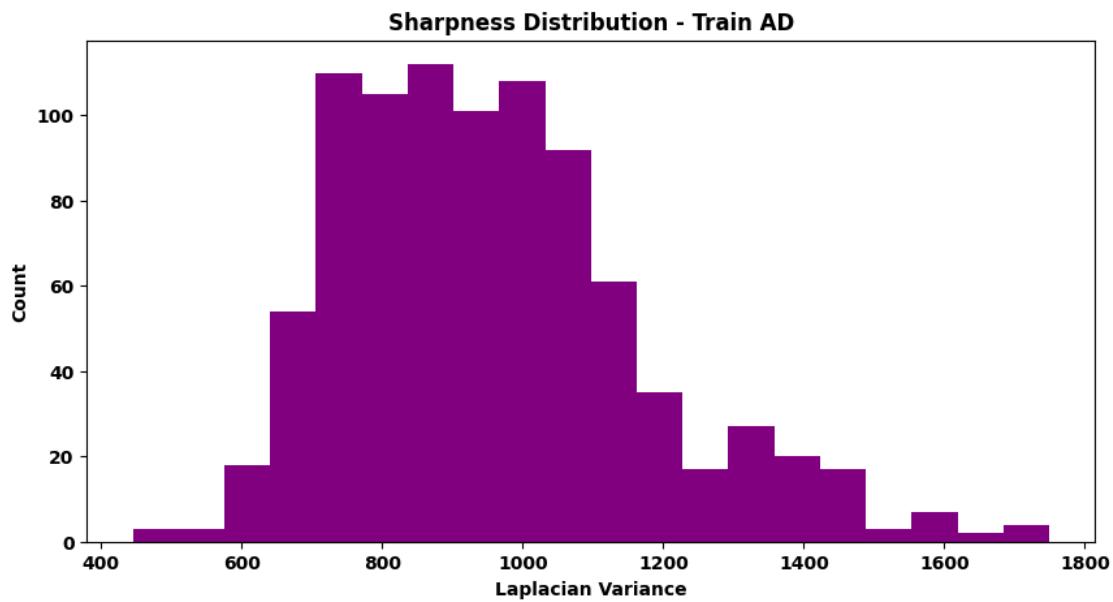
# Plot distributions
plt.figure(figsize=(10, 5))
plt.hist(sharpness_values, bins=20, color='purple')
plt.title(f'Sharpness Distribution - {dataset_type} {class_name}')
plt.xlabel('Laplacian Variance')
plt.ylabel('Count')
plt.show()

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()

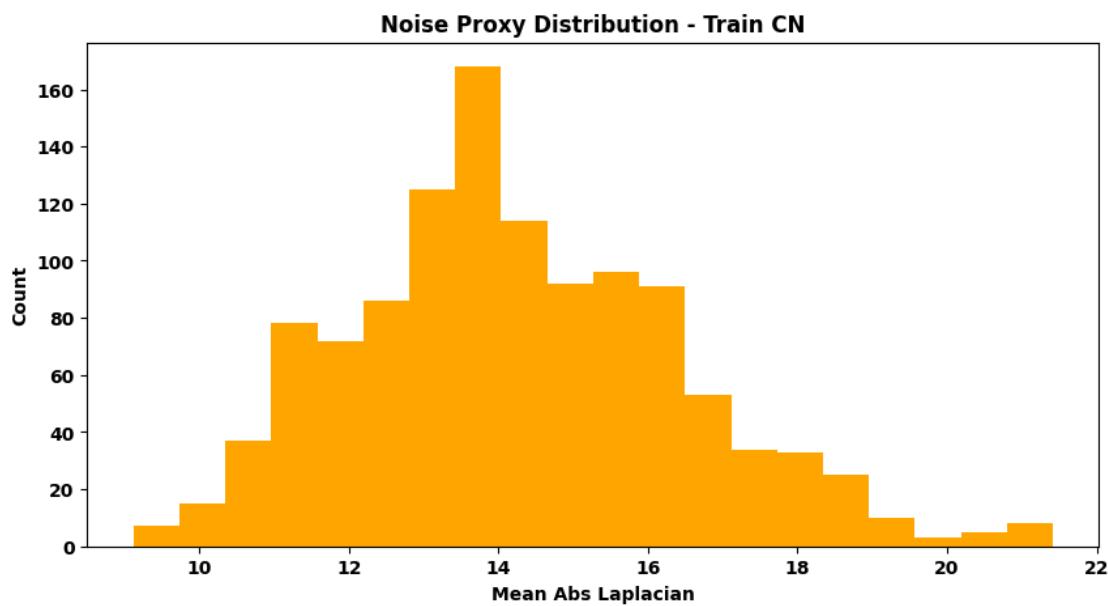
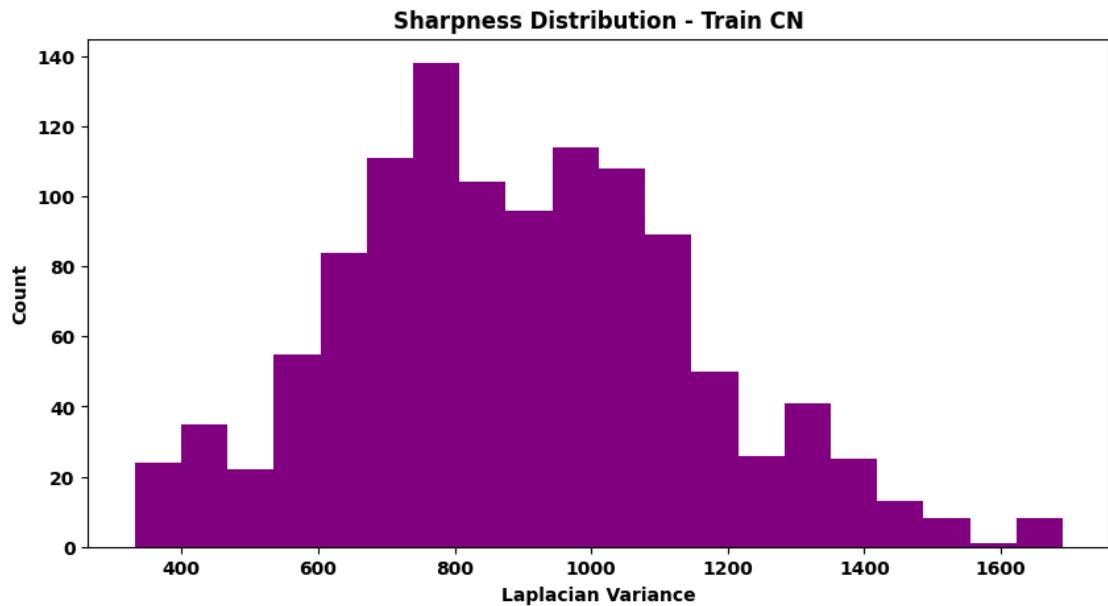
# Run for train and test
for dataset_type, base_dir in [("Train", train_dir), ("Test", test_dir)]:
    for sub in subfolders:
        paths = get_image_paths(base_dir, sub)
        compute_sharpness_noise(paths, sub, dataset_type)

```

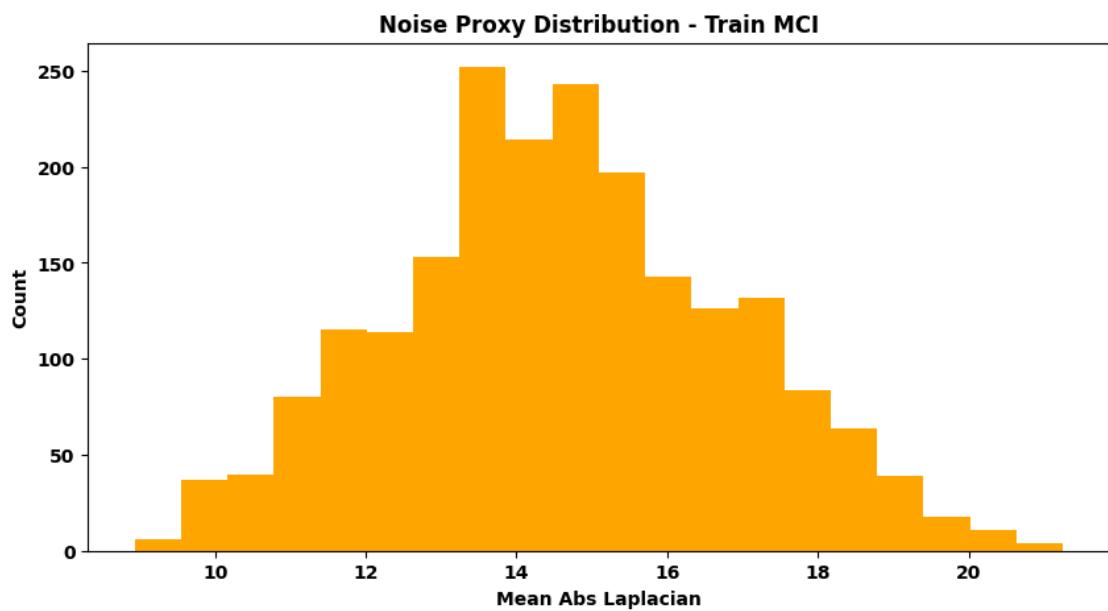
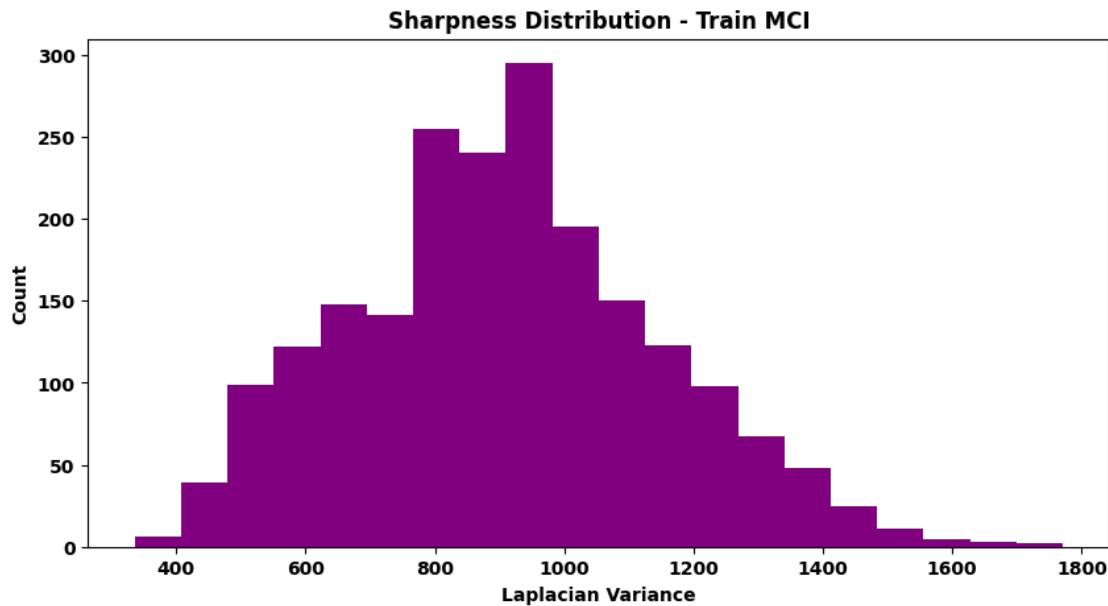
Train - AD: Mean Sharpness (Laplacian Var) 957.1282744615885, Mean Noise Proxy
14.802802645471242



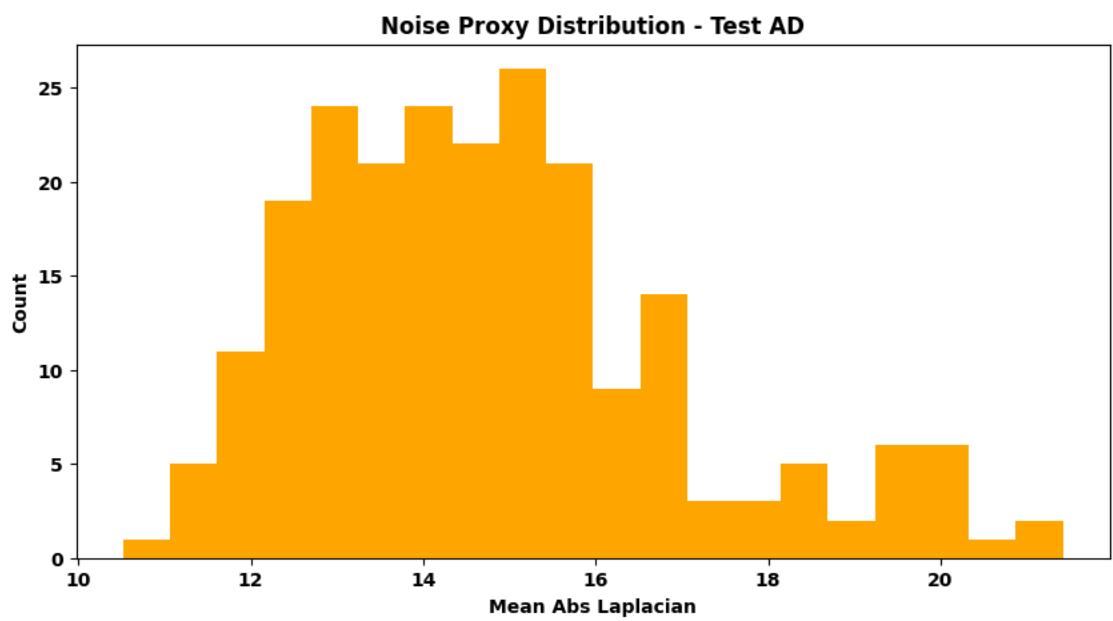
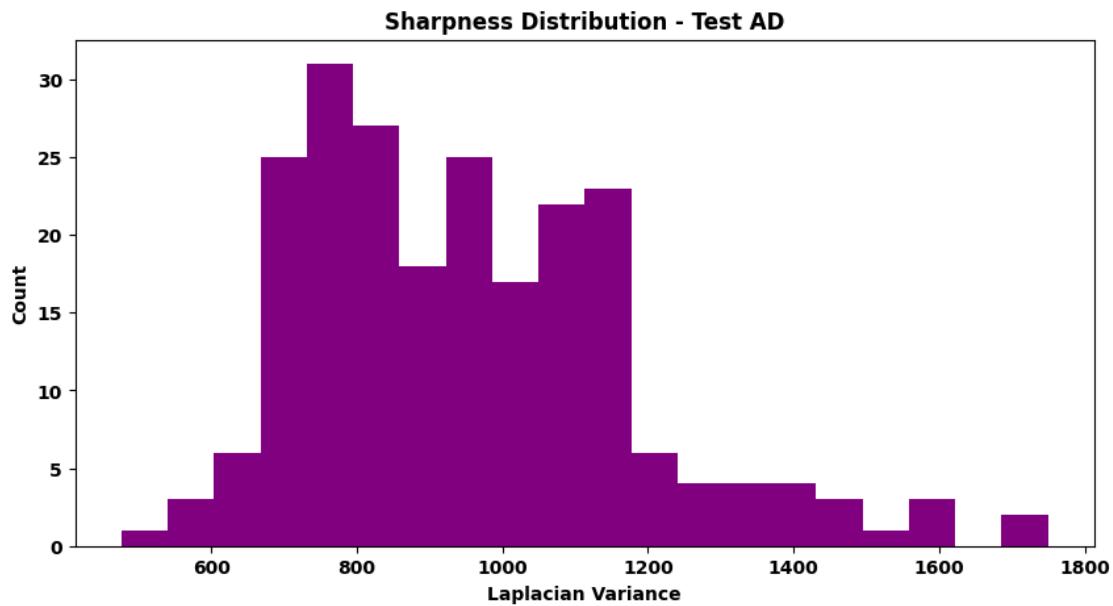
Train - CN: Mean Sharpness (Laplacian Var) 893.2968455190498, Mean Noise Proxy 14.251108631410697



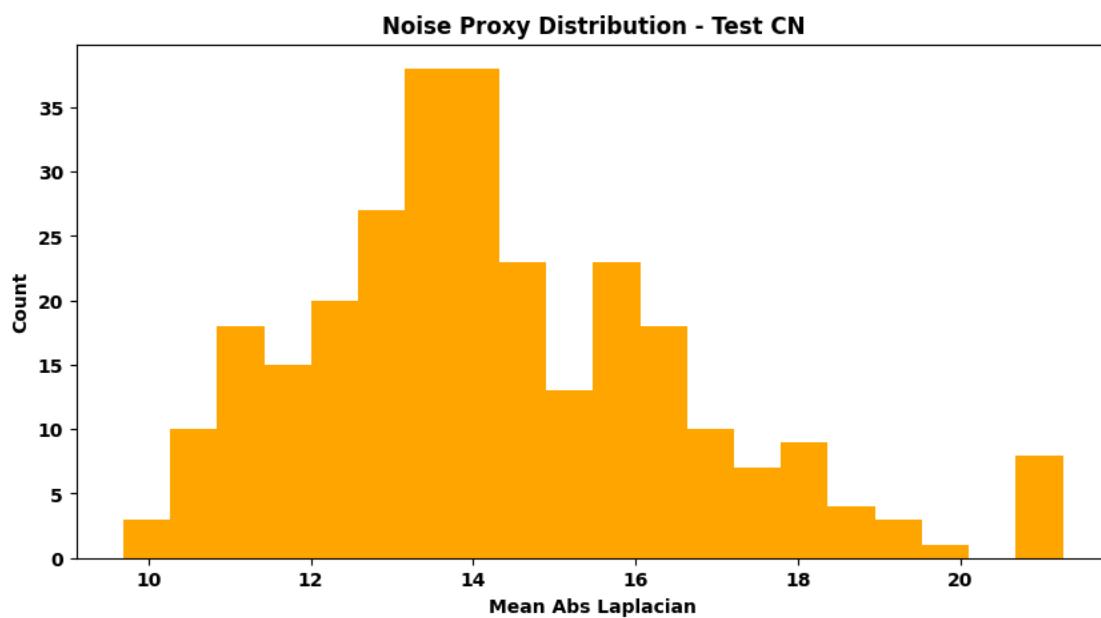
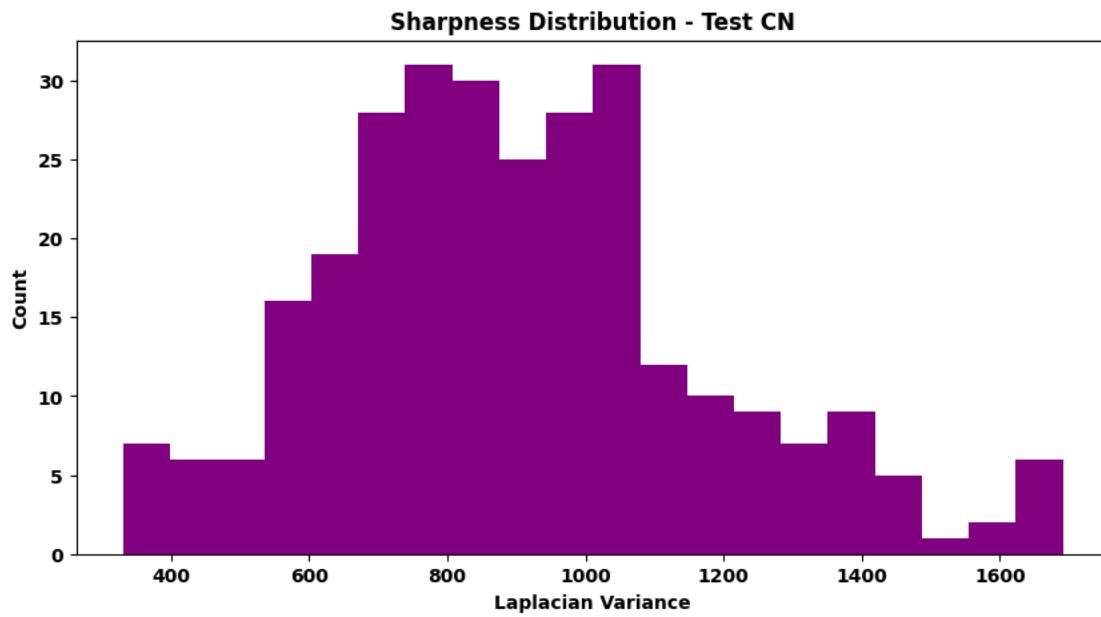
Train - MCI: Mean Sharpness (Laplacian Var) 908.4466331019075, Mean Noise Proxy 14.612884490720369



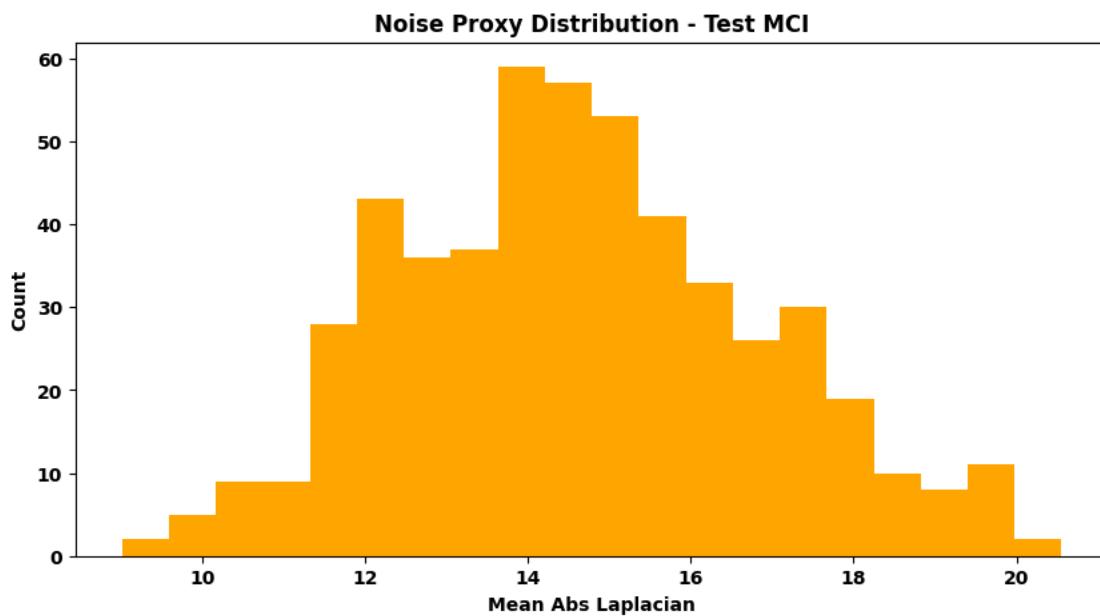
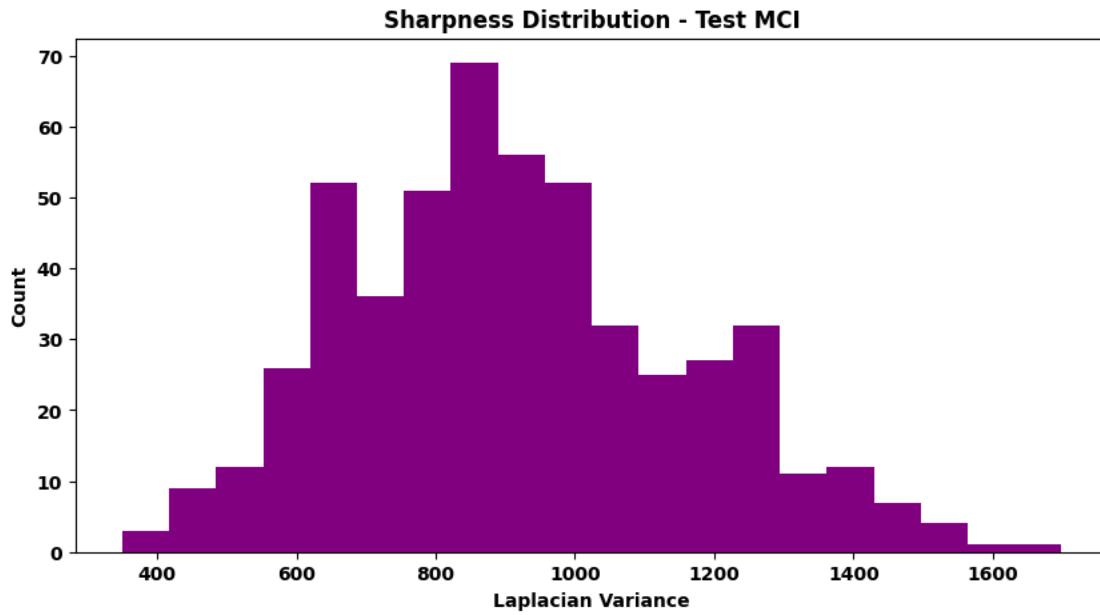
Test - AD: Mean Sharpness (Laplacian Var) 951.997204343723, Mean Noise Proxy 14.780007986757077



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}, □
        ↪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)

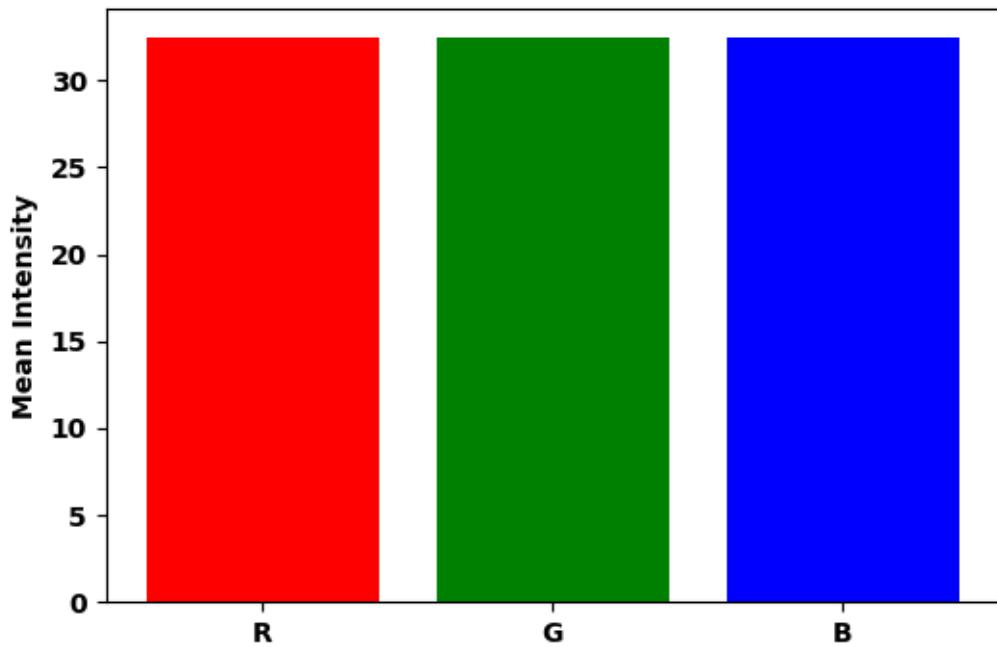
```

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



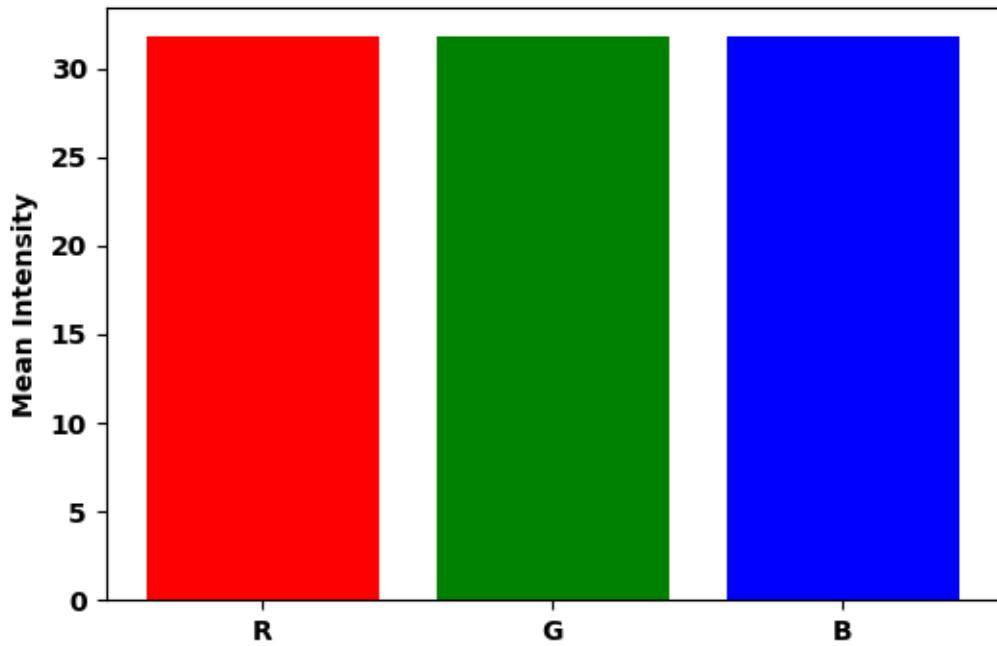
Train - CN: Avg Channel Means [32.45573519 32.45573519 32.45573519], Gray-World Deviation 0.0 (lower is better balanced)

White Balance Check - Train CN

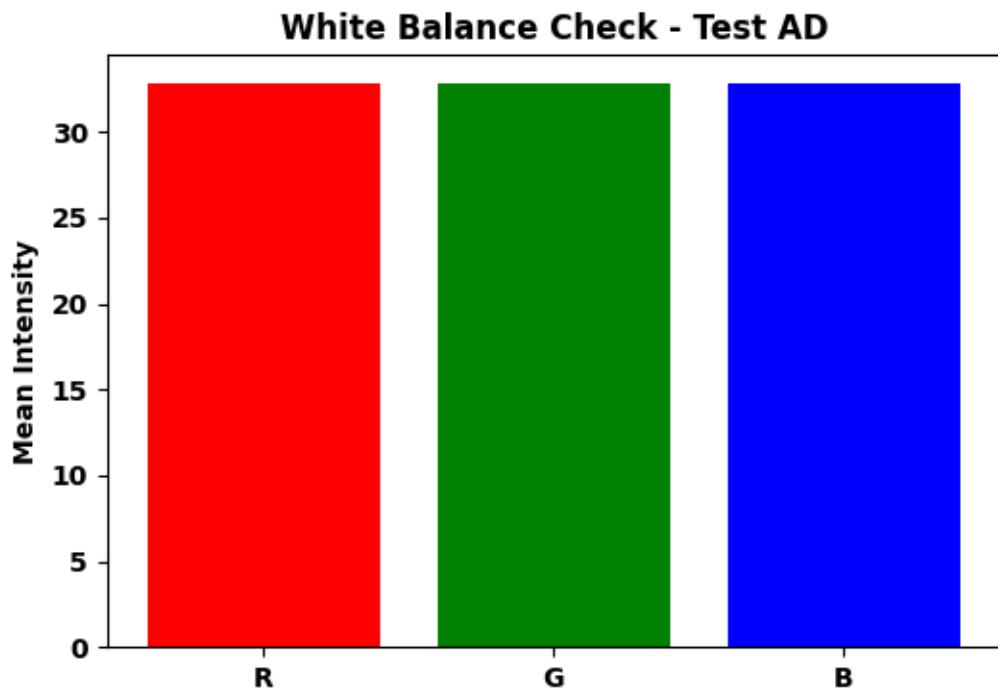


Train - MCI: Avg Channel Means [31.80549625 31.80549625 31.80549625] , Gray-World Deviation 3.552713678800501e-15 (lower is better balanced)

White Balance Check - Train MCI

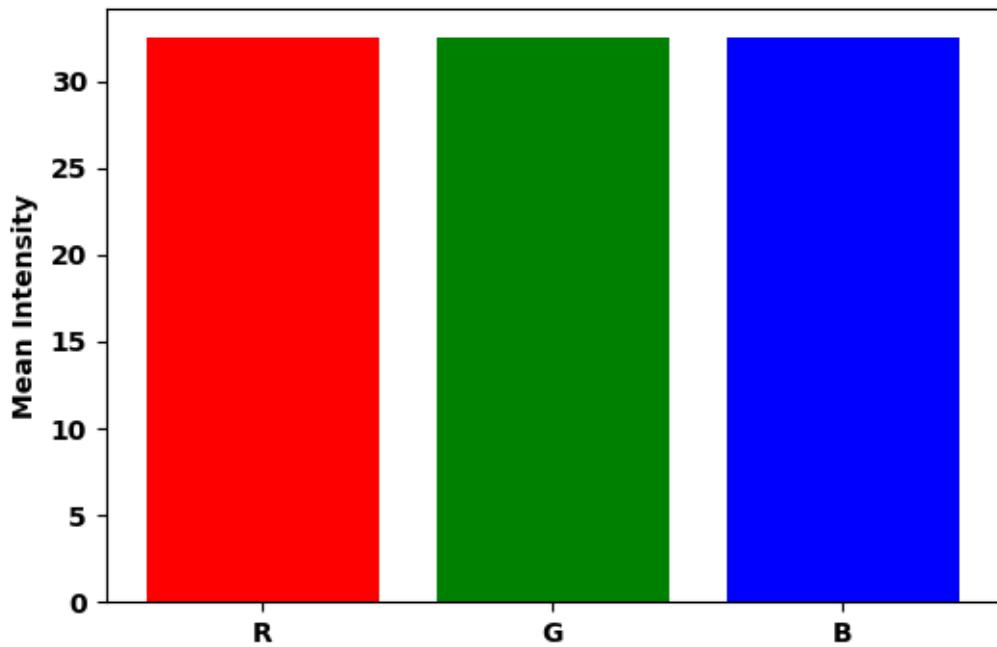


Test - AD: Avg Channel Means [32.82031287 32.82031287 32.82031287], Gray-World Deviation 0.0 (lower is better balanced)



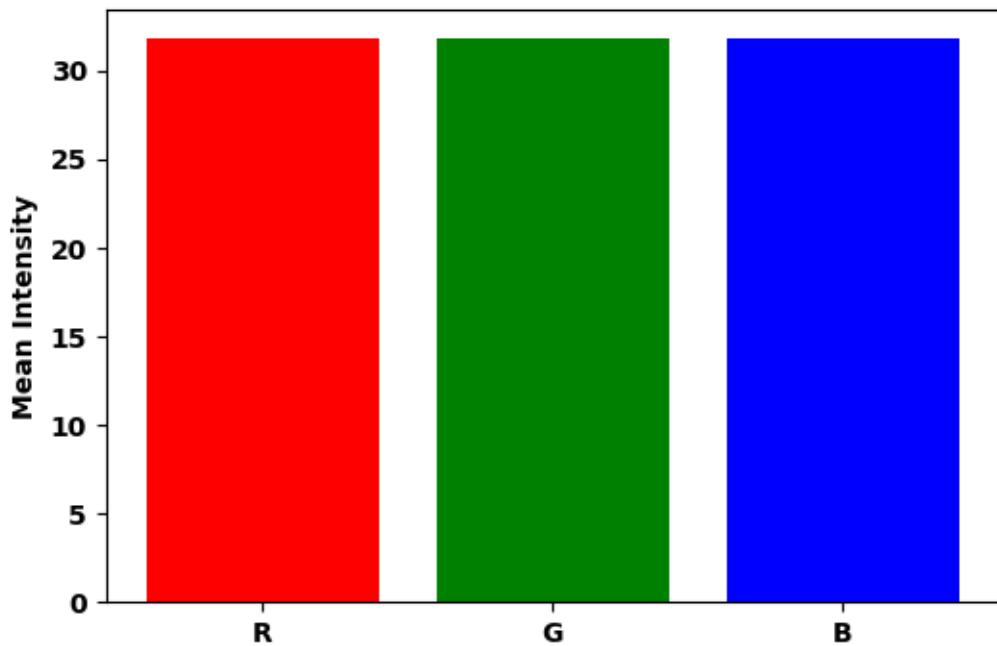
Test - CN: Avg Channel Means [32.50435488 32.50435488 32.50435488], Gray-World Deviation 0.0 (lower is better balanced)

White Balance Check - Test CN



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

White Balance Check - Test MCI



```
[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-
disease/train-20251010T183510Z-1-001/train/AD/AD067_S_1253a103.png']
Duplicates: ['/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD116_S_1083a128.png',
'/kaggle/input/alzheimer-
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'/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD027_S_1385a104.png',
'/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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Duplicates: ['/kaggle/input/alzheimer-
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'/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-
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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-
disease/train-20251010T183510Z-1-001/train/AD/AD023_S_1289b105.png',
'/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD023_S_1289a105.png',
'/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD023_S_1289a106.png']
Duplicates: ['/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD023_S_0139a115.png',
```

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'/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_0139a114.png',
'/kaggle/input/alzheimer-
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Duplicates: ['/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD023_S_1289b113.png',
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Duplicates: ['/kaggle/input/alzheimer-
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'/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD136_S_0300b092.png',
'/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD136_S_0300b091.png',
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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',
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disease/train-20251010T183510Z-1-001/train/AD/AD127_S_0844a100.png']
Duplicates: ['/kaggle/input/alzheimer-
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'/kaggle/input/alzheimer-
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Duplicates: ['/kaggle/input/alzheimer-
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'/kaggle/input/alzheimer-
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Duplicates: ['/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_1289a120.png']
Duplicates: ['/kaggle/input/alzheimer-
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'/kaggle/input/alzheimer-
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'/kaggle/input/alzheimer-
disease/train-20251010T183510Z-1-001/train/AD/AD018_S_0633a108.png']
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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/AD002_S_0816a100.png',
'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/AD/AD002_S_0816a098.png']
Duplicates: ['/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/AD/AD027_S_1385a100.png',
'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/AD/AD027_S_1385a099.png',
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disease/test-20251010T094612Z-1-001/test/AD/AD116_S_1083a125.png']
Duplicates: ['/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/AD/AD023_S_1289b126.png',
'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/AD/AD023_S_1289a126.png']
Duplicates: ['/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/AD/AD136_S_0426b107.png',
'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/AD/AD136_S_0426b110.png']
Duplicates: ['/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/AD/AD002_S_1018a078.png',
'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/AD/AD002_S_1018a079.png']
Duplicates: ['/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/AD/AD002_S_0816b103.png',
'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/AD/AD002_S_0816b104.png']
Duplicates: ['/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/AD/AD067_S_1253a087.png',
'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/AD/AD067_S_1253a088.png',
'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/AD/AD067_S_1253a085.png']
Duplicates: ['/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/AD/AD136_S_0300a101.png',
'/kaggle/input/alzheimer-
disease/test-20251010T094612Z-1-001/test/AD/AD136_S_0300b101.png']
Duplicates: ['/kaggle/input/alzheimer-
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-

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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' ,  
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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' ,
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'/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',
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disease/test-20251010T094612Z-1-001/test/CN/CN023_S_1190a101.png']
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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-
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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-
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'/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-
disease/test-20251010T094612Z-1-001/test/CN/CN068_S_1191a106.png',
'/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-
disease/test-20251010T094612Z-1-001/test/CN/CN051_S_1123a090.png']
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',  
'/kaggle/input/alzheimer-  
disease/test-20251010T094612Z-1-001/test/MCI/CI082_S_0469b094.png']  
Duplicates: ['/kaggle/input/alzheimer-  
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```

```
[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))
```

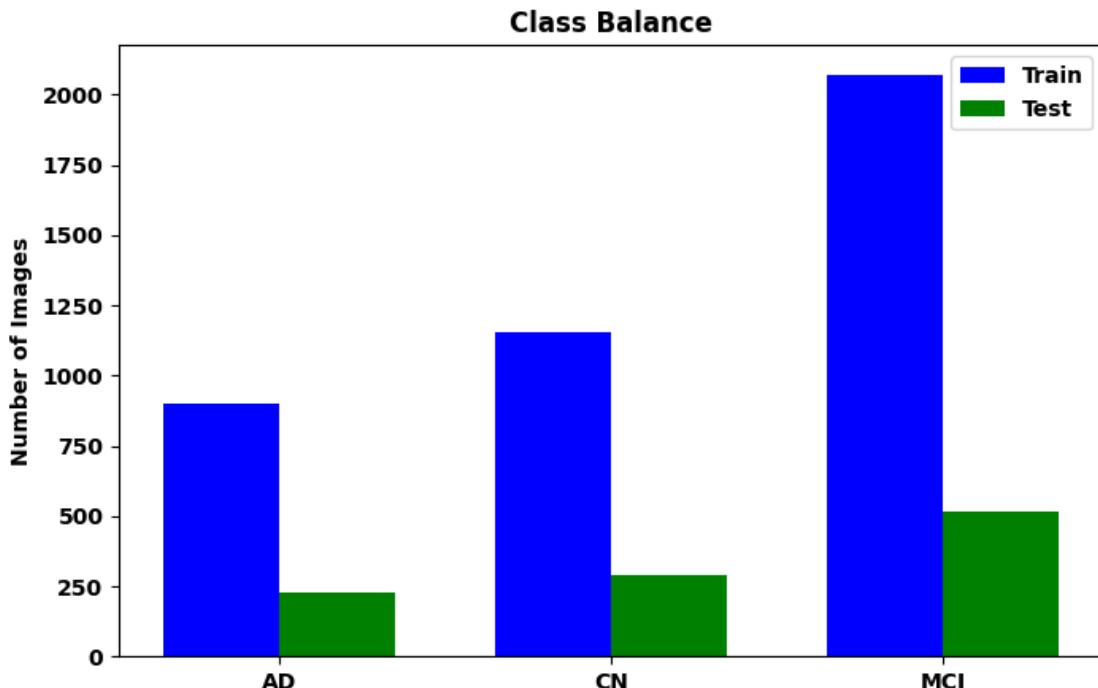
```

# 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()

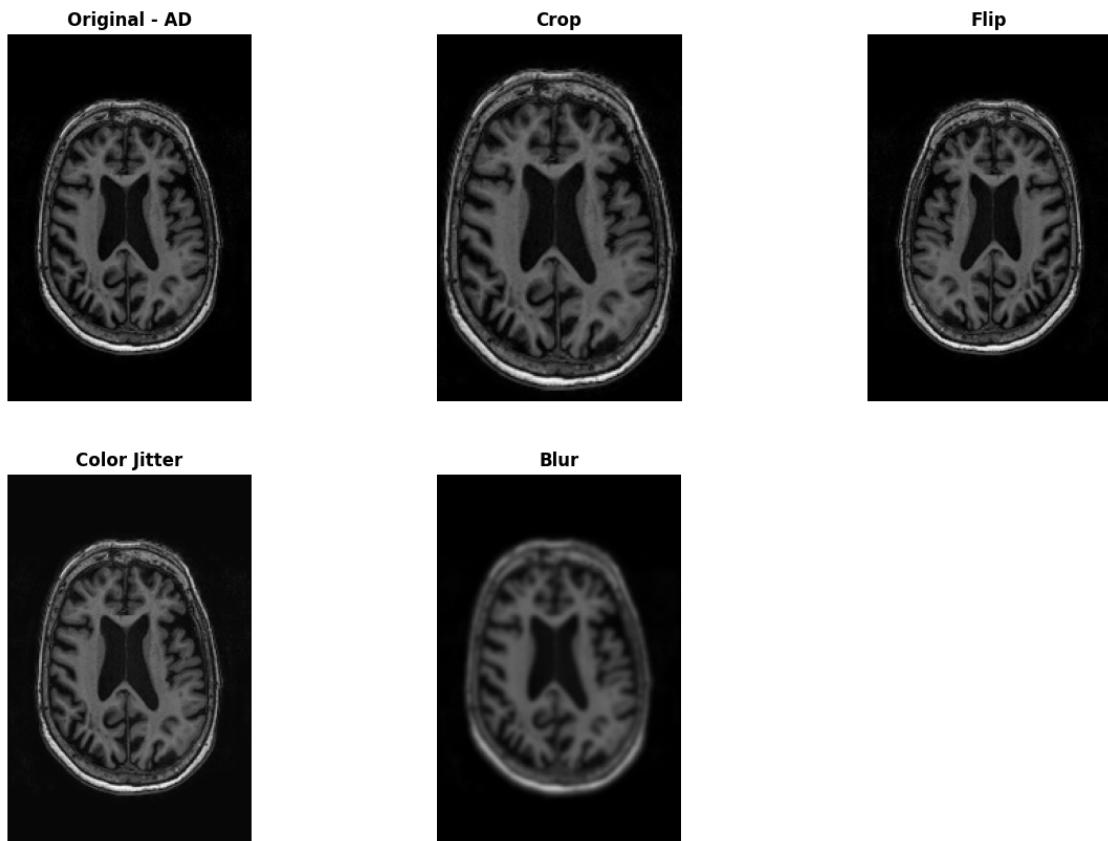
augmentation_probe()

```

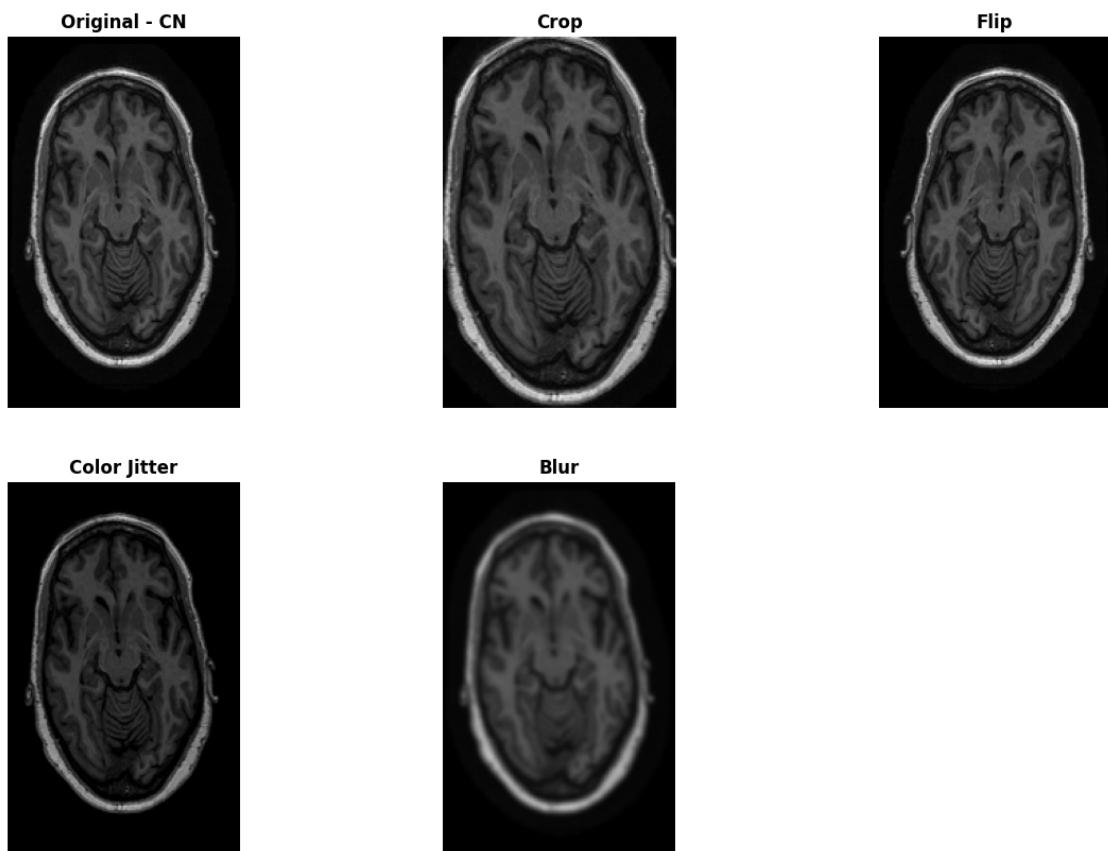
Leakage Check: 61 overlapping IDs (e.g., by source/filename prefix). If >0, potential leakage.

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

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



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



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

