

pi-04

October 14, 2024

```
[ ]: !git clone https://github.com/Negatix092/DM1.git
```

1 1. Dado el conjunto de datos “dog & cats” con 25k y 12.5k imágenes (gatos y perros) de training and test, el cual se puede descargar aquí [dogs-vs-cats.zip](#). Se desea:

- Aplicar la tarea de normalización a los datos para que cumplan con los requerimientos de entrada de los modelos de clasificación. Se sugiere hacer un `resize(image)` para la dimensión más pequeña entre ambos conjuntos.

```
[1]: train_folder = '/content/DM1/CNN/dogs-vs-cats/train'
test_folder = '/content/DM1/CNN/dogs-vs-cats/test1'
```

1.1 General

```
[3]: import os
import cv2
import numpy as np
import matplotlib.pyplot as plt
import random
from concurrent.futures import ThreadPoolExecutor

apply_canny = True # Ajustar a False si no quieres usar la detección de bordes

# Función para contar imágenes en una carpeta
def count_images_in_folder(folder):
    try:
        count = len(os.listdir(folder))
        return count
    except FileNotFoundError:
        print(f"Error: La carpeta {folder} no se encontró.")
        return 0

# Función para cargar imágenes originales (sin ninguna transformación)
def load_original_images(folder):
    images = []
```

```

    img_paths = [os.path.join(folder, img_name) for img_name in os.
↳listdir(folder)]

    for img_path in img_paths:
        img = cv2.imread(img_path) # Cargar la imagen tal cual
        if img is not None:
            images.append(img)

    return images

# Función para cargar y preprocesar una imagen
def load_and_preprocess_single_image(img_path, apply_canny=False,
↳for_naive_bayes=False):
    img = cv2.imread(img_path)

    if img is not None:
        original_size = img.shape[:2] # Almacenar tamaño original
        if for_naive_bayes:
            img = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY) # Convertir a escala
↳de grises para Naive Bayes

            img = cv2.resize(img, (64, 64)) # Redimensionar a 64x64

        if apply_canny:
            img = cv2.Canny(img, 100, 200)

        img = img / 255.0 # Normalizar los valores de los píxeles a un rango
↳entre 0 y 1
        return img, original_size
    else:
        return None, None

# Función para cargar y preprocesar imágenes usando hilos
def load_and_preprocess_images_threaded(folder, apply_canny=False,
↳for_naive_bayes=False):
    images = []
    original_sizes = []

    img_paths = [os.path.join(folder, img_name) for img_name in os.
↳listdir(folder)]

    # Usar hilos para cargar y preprocesar imágenes en paralelo
    with ThreadPoolExecutor(max_workers=8) as executor:
        results = executor.map(lambda path:
↳load_and_preprocess_single_image(path, apply_canny, for_naive_bayes),
↳img_paths)

```

```

    for img, original_size in results:
        if img is not None:
            images.append(img)
            original_sizes.append(original_size)

    return np.array(images), np.array(original_sizes)

# Preprocesamiento para ambos conjuntos (entrenamiento y prueba)
def preprocess_images_for_both_models(train_folder, test_folder,
    ↪ apply_canny=False, for_naive_bayes=False):
    # Cargar y preprocesar las imágenes de entrenamiento y prueba usando hilos
    train_images, train_original_sizes =
    ↪ load_and_preprocess_images_threaded(train_folder, apply_canny,
    ↪ for_naive_bayes)
    test_images, test_original_sizes =
    ↪ load_and_preprocess_images_threaded(test_folder, apply_canny,
    ↪ for_naive_bayes)

    return train_images, test_images, train_original_sizes, test_original_sizes

# Función para graficar comparativa de tamaños originales vs redimensionados
def plot_image_sizes(original_sizes, resized_shape):
    original_heights = [size[0] for size in original_sizes]
    original_widths = [size[1] for size in original_sizes]

    plt.figure(figsize=(10, 5))
    plt.subplot(1, 2, 1)
    plt.hist(original_heights, bins=30, alpha=0.7, color='b', label='Original_
    ↪ Heights')
    plt.hist(original_widths, bins=30, alpha=0.7, color='r', label='Original_
    ↪ Widths')
    plt.title('Tamaños Originales')
    plt.legend()

    plt.subplot(1, 2, 2)
    plt.bar(['Resized Height', 'Resized Width'], [resized_shape[0],
    ↪ resized_shape[1]], color=['b', 'r'])
    plt.title(f'Tamaños Redimensionados_
    ↪ ({resized_shape[0]}x{resized_shape[1]})')
    plt.show()

# Función para seleccionar una muestra de las imágenes
def sample_image_sizes(original_sizes, sample_fraction=0.05):
    sample_size = int(len(original_sizes) * sample_fraction)
    return random.sample(list(original_sizes), sample_size)

```

```

# Función para mostrar imágenes
def show_random_images(images, title, n=4):
    indices = random.sample(range(len(images)), n)
    plt.figure(figsize=(10, 10))
    for i, idx in enumerate(indices):
        plt.subplot(2, 2, i + 1)
        plt.imshow(images[idx], cmap='gray' if len(images[idx].shape) == 2 else
↳None)
        plt.title(f"{title} - {i+1}")
        plt.axis('off')
    plt.show()

# Verificar el número de imágenes procesadas
def verify_image_count(train_folder, test_folder):
    print("Verificación de número de imágenes:")
    train_count = count_images_in_folder(train_folder)
    test_count = count_images_in_folder(test_folder)
    print(f"Total imágenes en entrenamiento: {train_count}")
    print(f"Total imágenes en test: {test_count}") # Verificar número de
↳imágenes en cada conjunto

```

```

[4]: train_images, test_images, train_original_sizes, test_original_sizes =
↳preprocess_images_for_both_models(train_folder, test_folder, apply_canny)

```

1.1.1 Visualización

Número de imágenes en cada conjunto

```

[5]: # Verificar número de imágenes en cada conjunto
verify_image_count(train_folder, test_folder)

```

Verificación de número de imágenes:

Total imágenes en entrenamiento: 25000

Total imágenes en test: 12500

Muestra imágenes originales

```

[6]: # Cargar imágenes originales tal como están
original_images = load_original_images(train_folder)

# Mostrar 4 imágenes originales
show_random_images(original_images, "Imágenes Originales")

```

Imágenes Originales - 1



Imágenes Originales - 2



Imágenes Originales - 3



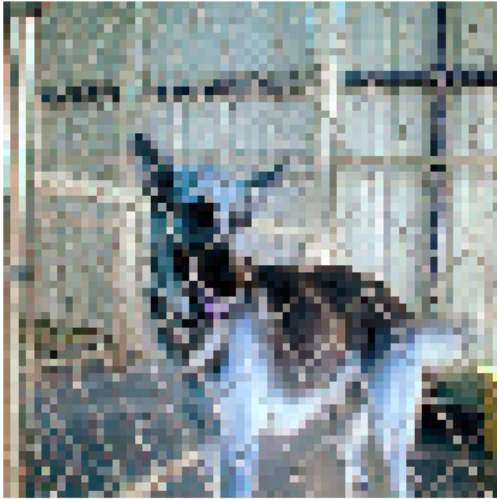
Imágenes Originales - 4



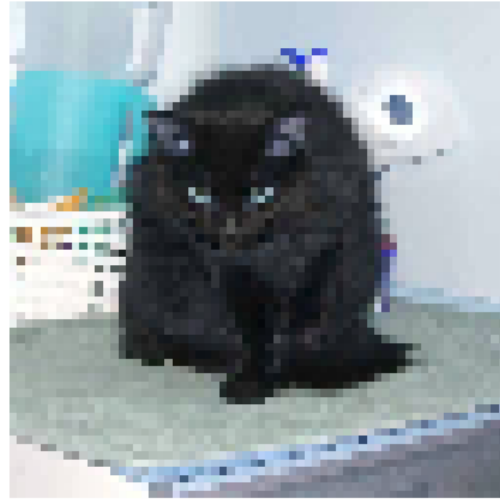
Mostrar imágenes con Preprocesamiento General

```
[7]: # Mostrar 4 imágenes con preprocesamiento básico (sin Canny y sin Naive Bayes)
train_images_general, _ = load_and_preprocess_images_threaded(train_folder,
    ↪ apply_canny=False, for_naive_bayes=False)
show_random_images(train_images_general, "Preprocesamiento General")
```

Preprocesamiento General - 1



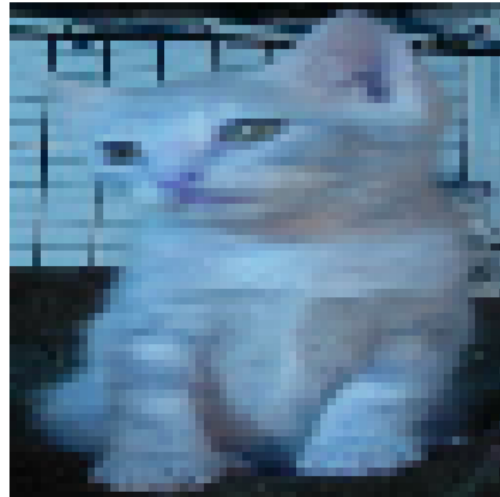
Preprocesamiento General - 2



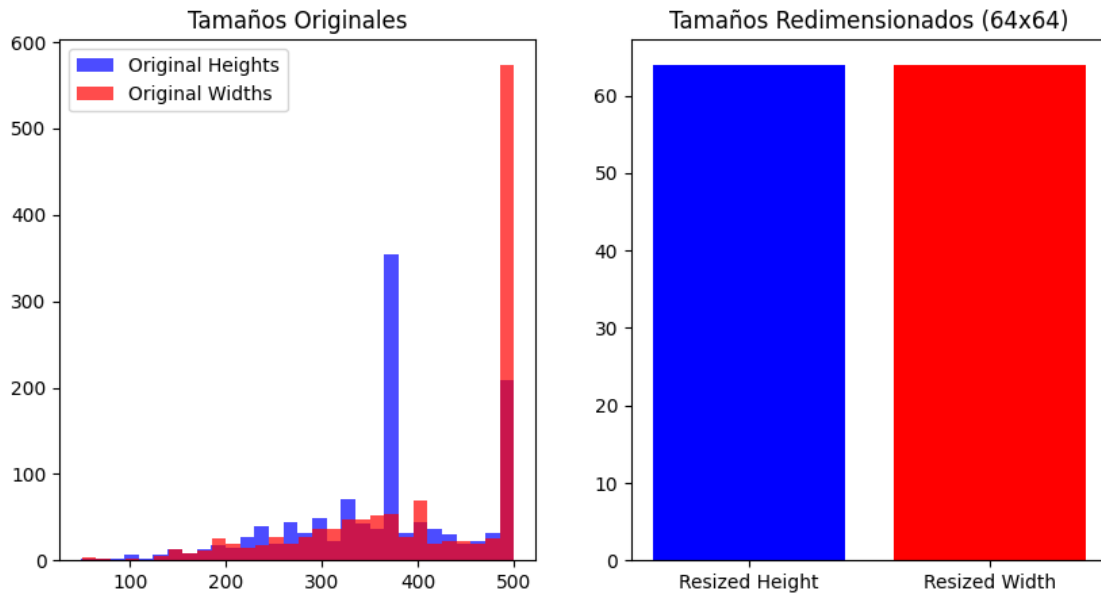
Preprocesamiento General - 3



Preprocesamiento General - 4



```
[8]: # Tomar una muestra del 5% de las imágenes y mostrar tamaños originales para
      ↪General
      sampled_train_sizes_general = sample_image_sizes(train_original_sizes,
      ↪sample_fraction=0.05)
      plot_image_sizes(sampled_train_sizes_general, (64, 64))
```



1.2 Preprocesamiento Naive Bayes

```
[18]: import numpy as np
from skimage.feature import hog
import cv2
from sklearn.decomposition import PCA

# Aplanar las imágenes (necesario para Naive Bayes)
def flatten_images(images):
    return images.reshape(images.shape[0], -1)

# Función para extraer características HOG
def hog_features(img, for_naive_bayes=False):
    if for_naive_bayes:
        # Si Naive Bayes, asegurarse de que la imagen esté en escala de grises
        img = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY) if len(img.shape) == 3 else
        img
        features = hog(img, pixels_per_cell=(8,8), cells_per_block=(2, 2),
        visualize=False)
    else:
        # Para CNN o imágenes multicanal, manejar diferentes canales de imagen
        img = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY) if len(img.shape) == 3 else
        img
        features = hog(img, pixels_per_cell=(8,8), cells_per_block=(2, 2),
        visualize=False)
```

```

    return features

# Función para aplicar pca
def preprocess_images_with_pca(train_nb, test_nb):
    pca = PCA(n_components=100) # Adjust the number of components to explain
    enough variance
    train_nb_pca = pca.fit_transform(train_nb)
    test_nb_pca = pca.transform(test_nb)
    return train_nb_pca, test_nb_pca

# Función para aplicar HOG a todas las imágenes de un conjunto
def preprocess_naive_bayes(train_images):
    hog_train = [hog_features(img, for_naive_bayes=True) for img in
    train_images]
    return np.array(hog_train)

# Para Naive Bayes, preprocesar en escala de grises sin detección de bordes
train_images_naive_bayes, test_images_naive_bayes,
    train_original_sizes_naive_bayes, test_original_sizes_naive_bayes =
    preprocess_images_for_both_models(train_folder, test_folder,
    apply_canny=False, for_naive_bayes=True)

# Aplanar las imágenes para Naive Bayes
train_images_naive_bayes_flat = flatten_images(train_images_naive_bayes)
test_images_naive_bayes_flat = flatten_images(test_images_naive_bayes)

# Extraer características HOG para Naive Bayes
train_images_naive_bayes_HOG= preprocess_naive_bayes(train_images_naive_bayes)
test_images_naive_bayes_HOG = preprocess_naive_bayes(test_images_naive_bayes)

# Aplicar PCA
train_nb, test_nb = preprocess_images_with_pca(train_images_naive_bayes_HOG,
    test_images_naive_bayes_HOG)

```

1.2.1 Visualización

```

[10]: # Mostrar las dimensiones de las imagenes aplanadas
print(f"Imágenes aplanadas para Naive Bayes - Train:
    {train_images_naive_bayes_flat.shape}")
print(f"Imágenes aplanadas para Naive Bayes - Test:
    {test_images_naive_bayes_flat.shape}")

# Mostrar las dimensiones después de aplicar HOG
print(f"Imágenes preprocesadas para Naive Bayes (HOG) - Train:
    {train_images_naive_bayes_HOG.shape}")

```



```

print(f"Imágenes preprocesadas para Naive Bayes (HOG) - Test: {test_images_naive_bayes_HOG.shape}")

# Mostrar las dimensiones después de aplicar PCA
print(f"Imágenes preprocesadas para Naive Bayes (PCA) - Train: {train_nb.shape}")
print(f"Imágenes preprocesadas para Naive Bayes (PCA) - Test: {test_nb.shape}")

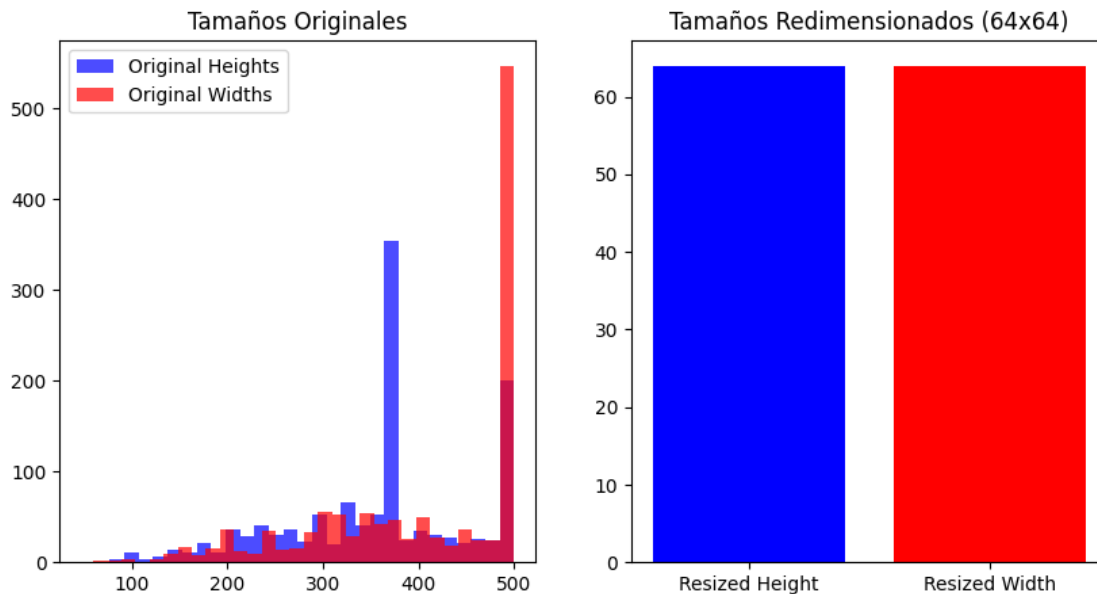
```

Imágenes aplanadas para Naive Bayes - Train: (25000, 4096)
 Imágenes aplanadas para Naive Bayes - Test: (12500, 4096)
 Imágenes preprocesadas para Naive Bayes (HOG) - Train: (25000, 1764)
 Imágenes preprocesadas para Naive Bayes (HOG) - Test: (12500, 1764)
 Imágenes preprocesadas para Naive Bayes (PCA) - Train: (25000, 100)
 Imágenes preprocesadas para Naive Bayes (PCA) - Test: (12500, 100)

```

[11]: # Tomar una muestra del 5% de las imágenes y mostrar tamaños originales para Naive Bayes
sampled_train_sizes_nb = sample_image_sizes(train_original_sizes_naive_bayes, sample_fraction=0.05)
plot_image_sizes(sampled_train_sizes_nb, (64, 64))

```



1.3 Preprocesamiento CNN

```

[12]: # Preprocesamiento específico para CNN
def preprocess_cnn(train_folder, test_folder, apply_canny=False):

```

```

train_cnn, train_original_sizes_cnn =
↳load_and_preprocess_images_threaded(train_folder, apply_canny=apply_canny,
↳for_naive_bayes=False)
test_cnn, test_original_sizes_cnn =
↳load_and_preprocess_images_threaded(test_folder, apply_canny=apply_canny,
↳for_naive_bayes=False)

return train_cnn, test_cnn, train_original_sizes_cnn,
↳test_original_sizes_cnn

```

1.3.1 Visualización

```

[13]: train_cnn, test_cnn, train_original_sizes_cnn, test_original_sizes_cnn =
↳preprocess_cnn(train_folder, test_folder, apply_canny=False)

# Mostrar las dimensiones de los conjuntos preprocesados
print(f"Conjunto de entrenamiento para CNN - Train: {train_cnn.shape}")
print(f"Conjunto de test para CNN - Test: {test_cnn.shape}")

```

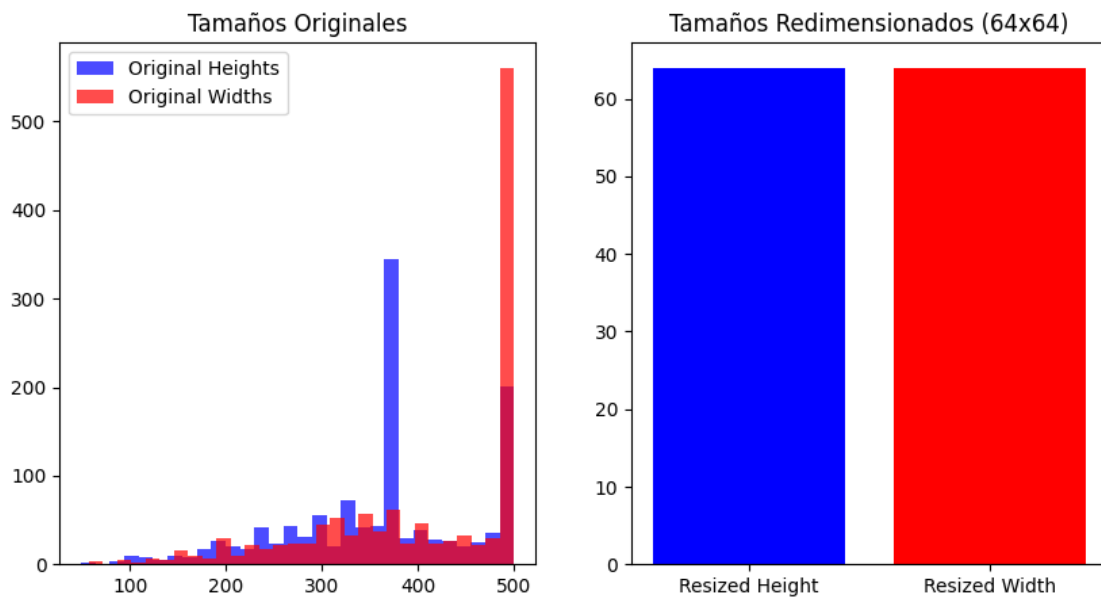
Conjunto de entrenamiento para CNN - Train: (25000, 64, 64, 3)

Conjunto de test para CNN - Test: (12500, 64, 64, 3)

```

[14]: # Tomar una muestra del 5% de las imágenes y mostrar tamaños
sampled_train_sizes_cnn = sample_image_sizes(train_original_sizes_cnn,
↳sample_fraction=0.05)
plot_image_sizes(sampled_train_sizes_cnn, (64, 64))

```



- 2 Utilizar la técnica, stratified 10-fold cross-validation (CV) para mostrar los resultados a nivel de promedio y desviación estándar de cada métrica supervisada considerada para esta tarea (AUC, Precision, Recall, F1-score). Investigar la técnica k-fold Cross-Validation y las métricas solicitadas para aplicarla correctamente.

2.0.1 Stratified 10-Fold CV usando NB

2.0.2 Improved version (multinomialNB)

```
[15]: from sklearn.naive_bayes import MultinomialNB
from sklearn.model_selection import StratifiedKFold
from sklearn.metrics import precision_score, roc_auc_score, recall_score, f1_score
from sklearn.preprocessing import MinMaxScaler
from sklearn.preprocessing import PolynomialFeatures
# Aplanar las imágenes para usar en Naive Bayes
# X_flat = train_images.reshape(train_images.shape[0], -1)

# Crear las etiquetas (1 para perro, 0 para gato)
y = np.array([1 if 'dog' in img else 0 for img in os.listdir(train_folder)])

# Escalar los valores para que estén en el rango [0, 1] para MultinomialNB
scaler = MinMaxScaler()
X_flat = scaler.fit_transform(train_nb) # Normalizamos los datos entre 0 y 1

# Polynomial Features
poly = PolynomialFeatures(degree=2)
X_poly = poly.fit_transform(X_flat)

# Model
nb_model = MultinomialNB()

# Definir el Stratified K-Fold CV
skf = StratifiedKFold(n_splits=10)

# Listas para almacenar los resultados de cada métrica
auc_scores = []
precision_scores = []
recall_scores = []
f1_scores = []

# Cross-validation
for train_index, test_index in skf.split(X_poly, y):
    X_train, X_test = X_poly[train_index], X_poly[test_index]
```

```

y_train, y_test = y[train_index], y[test_index]

# Train model
nb_model.fit(X_train, y_train)

# Predict
y_pred = nb_model.predict(X_test)
y_prob = nb_model.predict_proba(X_test)[:, 1]

# Evaluate
auc_scores.append(roc_auc_score(y_test, y_prob))
precision_scores.append(precision_score(y_test, y_pred))
recall_scores.append(recall_score(y_test, y_pred))
f1_scores.append(f1_score(y_test, y_pred))

# Mostrar los resultados promedio y desviación estándar
print(f"AUC: {np.mean(auc_scores):.3f} ± {np.std(auc_scores):.3f}")
print(f"Precision: {np.mean(precision_scores):.3f} ± {np.std(precision_scores):.3f}")
print(f"Recall: {np.mean(recall_scores):.3f} ± {np.std(recall_scores):.3f}")
print(f"F1-score: {np.mean(f1_scores):.3f} ± {np.std(f1_scores):.3f}")

```

AUC: 0.779 ± 0.009
Precision: 0.702 ± 0.009
Recall: 0.743 ± 0.009
F1-score: 0.722 ± 0.005

[20]:

```

# Preprocesar el conjunto de test sin aplicar PCA (HOG + Polynomial Features)
# nos aseguramos de que el preprocesamiento sea consistente con el conjunto de
    ↪entrenamiento.

# Aplicar Polynomial Features al conjunto de prueba
test_images_poly = poly.fit_transform(test_nb)

# Hacer las predicciones en el conjunto de test preprocesado (ahora con PCA y
    ↪Polynomial Features)
test_predictions = nb_model.predict(test_images_poly)

# Convertir las predicciones (0 y 1) a etiquetas "cat" y "dog"
test_predictions_labels = ['cat' if pred == 0 else 'dog' for pred in
    ↪test_predictions]

# Imprimir las etiquetas predichas para cada imagen del conjunto de prueba
for img_name, label in enumerate(zip(os.listdir(test_folder),
    ↪test_predictions_labels)):
    print(f"Image: {img_name} -> Predicted: {label}")

```

Streaming output truncated to the last 5000 lines.

Image: 7500 -> Predicted: ('610.jpg', 'cat')
Image: 7501 -> Predicted: ('1381.jpg', 'cat')
Image: 7502 -> Predicted: ('708.jpg', 'dog')
Image: 7503 -> Predicted: ('3892.jpg', 'cat')
Image: 7504 -> Predicted: ('8657.jpg', 'dog')
Image: 7505 -> Predicted: ('6025.jpg', 'cat')
Image: 7506 -> Predicted: ('6464.jpg', 'dog')
Image: 7507 -> Predicted: ('4513.jpg', 'cat')
Image: 7508 -> Predicted: ('422.jpg', 'cat')
Image: 7509 -> Predicted: ('11645.jpg', 'cat')
Image: 7510 -> Predicted: ('3941.jpg', 'cat')
Image: 7511 -> Predicted: ('10575.jpg', 'cat')
Image: 7512 -> Predicted: ('2969.jpg', 'cat')
Image: 7513 -> Predicted: ('4445.jpg', 'dog')
Image: 7514 -> Predicted: ('1580.jpg', 'cat')
Image: 7515 -> Predicted: ('9649.jpg', 'cat')
Image: 7516 -> Predicted: ('9957.jpg', 'cat')
Image: 7517 -> Predicted: ('9108.jpg', 'dog')
Image: 7518 -> Predicted: ('12480.jpg', 'cat')
Image: 7519 -> Predicted: ('10316.jpg', 'cat')
Image: 7520 -> Predicted: ('4446.jpg', 'cat')
Image: 7521 -> Predicted: ('10270.jpg', 'cat')
Image: 7522 -> Predicted: ('5743.jpg', 'dog')
Image: 7523 -> Predicted: ('1142.jpg', 'cat')
Image: 7524 -> Predicted: ('481.jpg', 'dog')
Image: 7525 -> Predicted: ('4308.jpg', 'cat')
Image: 7526 -> Predicted: ('6276.jpg', 'cat')
Image: 7527 -> Predicted: ('5910.jpg', 'dog')
Image: 7528 -> Predicted: ('1140.jpg', 'cat')
Image: 7529 -> Predicted: ('11345.jpg', 'cat')
Image: 7530 -> Predicted: ('3677.jpg', 'dog')
Image: 7531 -> Predicted: ('3404.jpg', 'cat')
Image: 7532 -> Predicted: ('7860.jpg', 'cat')
Image: 7533 -> Predicted: ('2087.jpg', 'cat')
Image: 7534 -> Predicted: ('3642.jpg', 'cat')
Image: 7535 -> Predicted: ('8288.jpg', 'cat')
Image: 7536 -> Predicted: ('2429.jpg', 'cat')
Image: 7537 -> Predicted: ('3321.jpg', 'cat')
Image: 7538 -> Predicted: ('1799.jpg', 'cat')
Image: 7539 -> Predicted: ('2314.jpg', 'dog')
Image: 7540 -> Predicted: ('12161.jpg', 'dog')
Image: 7541 -> Predicted: ('7004.jpg', 'cat')
Image: 7542 -> Predicted: ('7642.jpg', 'cat')
Image: 7543 -> Predicted: ('222.jpg', 'cat')
Image: 7544 -> Predicted: ('10092.jpg', 'cat')
Image: 7545 -> Predicted: ('5299.jpg', 'cat')
Image: 7546 -> Predicted: ('420.jpg', 'cat')

Image: 7547 -> Predicted: ('7735.jpg', 'dog')
Image: 7548 -> Predicted: ('316.jpg', 'dog')
Image: 7549 -> Predicted: ('3989.jpg', 'dog')
Image: 7550 -> Predicted: ('9005.jpg', 'cat')
Image: 7551 -> Predicted: ('10148.jpg', 'cat')
Image: 7552 -> Predicted: ('5811.jpg', 'cat')
Image: 7553 -> Predicted: ('8008.jpg', 'cat')
Image: 7554 -> Predicted: ('8576.jpg', 'cat')
Image: 7555 -> Predicted: ('9199.jpg', 'cat')
Image: 7556 -> Predicted: ('556.jpg', 'cat')
Image: 7557 -> Predicted: ('9973.jpg', 'cat')
Image: 7558 -> Predicted: ('11205.jpg', 'cat')
Image: 7559 -> Predicted: ('5174.jpg', 'cat')
Image: 7560 -> Predicted: ('4360.jpg', 'cat')
Image: 7561 -> Predicted: ('6137.jpg', 'cat')
Image: 7562 -> Predicted: ('11758.jpg', 'cat')
Image: 7563 -> Predicted: ('4840.jpg', 'cat')
Image: 7564 -> Predicted: ('7672.jpg', 'cat')
Image: 7565 -> Predicted: ('7915.jpg', 'cat')
Image: 7566 -> Predicted: ('10453.jpg', 'cat')
Image: 7567 -> Predicted: ('7747.jpg', 'cat')
Image: 7568 -> Predicted: ('9105.jpg', 'dog')
Image: 7569 -> Predicted: ('6460.jpg', 'dog')
Image: 7570 -> Predicted: ('553.jpg', 'cat')
Image: 7571 -> Predicted: ('10540.jpg', 'cat')
Image: 7572 -> Predicted: ('4392.jpg', 'cat')
Image: 7573 -> Predicted: ('999.jpg', 'dog')
Image: 7574 -> Predicted: ('8228.jpg', 'cat')
Image: 7575 -> Predicted: ('9283.jpg', 'dog')
Image: 7576 -> Predicted: ('792.jpg', 'cat')
Image: 7577 -> Predicted: ('7238.jpg', 'dog')
Image: 7578 -> Predicted: ('5364.jpg', 'cat')
Image: 7579 -> Predicted: ('3786.jpg', 'dog')
Image: 7580 -> Predicted: ('742.jpg', 'cat')
Image: 7581 -> Predicted: ('775.jpg', 'dog')
Image: 7582 -> Predicted: ('9574.jpg', 'cat')
Image: 7583 -> Predicted: ('11002.jpg', 'cat')
Image: 7584 -> Predicted: ('7990.jpg', 'dog')
Image: 7585 -> Predicted: ('2244.jpg', 'dog')
Image: 7586 -> Predicted: ('10644.jpg', 'dog')
Image: 7587 -> Predicted: ('985.jpg', 'dog')
Image: 7588 -> Predicted: ('10219.jpg', 'cat')
Image: 7589 -> Predicted: ('9738.jpg', 'cat')
Image: 7590 -> Predicted: ('11863.jpg', 'dog')
Image: 7591 -> Predicted: ('6412.jpg', 'cat')
Image: 7592 -> Predicted: ('7201.jpg', 'cat')
Image: 7593 -> Predicted: ('1912.jpg', 'dog')
Image: 7594 -> Predicted: ('9651.jpg', 'cat')

Image: 7595 -> Predicted: ('10604.jpg', 'cat')
Image: 7596 -> Predicted: ('1426.jpg', 'dog')
Image: 7597 -> Predicted: ('10098.jpg', 'cat')
Image: 7598 -> Predicted: ('8965.jpg', 'dog')
Image: 7599 -> Predicted: ('9798.jpg', 'dog')
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Image: 12333 -> Predicted: ('3290.jpg', 'dog')
Image: 12334 -> Predicted: ('2043.jpg', 'cat')
Image: 12335 -> Predicted: ('9614.jpg', 'dog')
Image: 12336 -> Predicted: ('4103.jpg', 'cat')
Image: 12337 -> Predicted: ('5827.jpg', 'cat')
Image: 12338 -> Predicted: ('8748.jpg', 'cat')
Image: 12339 -> Predicted: ('5072.jpg', 'dog')
Image: 12340 -> Predicted: ('2511.jpg', 'dog')
Image: 12341 -> Predicted: ('5653.jpg', 'cat')
Image: 12342 -> Predicted: ('8956.jpg', 'cat')
Image: 12343 -> Predicted: ('3938.jpg', 'cat')
Image: 12344 -> Predicted: ('7247.jpg', 'dog')
Image: 12345 -> Predicted: ('10865.jpg', 'cat')
Image: 12346 -> Predicted: ('2298.jpg', 'cat')

Image: 12347 -> Predicted: ('4056.jpg', 'cat')
Image: 12348 -> Predicted: ('6891.jpg', 'cat')
Image: 12349 -> Predicted: ('2110.jpg', 'cat')
Image: 12350 -> Predicted: ('12364.jpg', 'cat')
Image: 12351 -> Predicted: ('2741.jpg', 'dog')
Image: 12352 -> Predicted: ('2802.jpg', 'cat')
Image: 12353 -> Predicted: ('8458.jpg', 'cat')
Image: 12354 -> Predicted: ('8847.jpg', 'cat')
Image: 12355 -> Predicted: ('9726.jpg', 'dog')
Image: 12356 -> Predicted: ('9467.jpg', 'cat')
Image: 12357 -> Predicted: ('3550.jpg', 'cat')
Image: 12358 -> Predicted: ('8277.jpg', 'cat')
Image: 12359 -> Predicted: ('7228.jpg', 'dog')
Image: 12360 -> Predicted: ('3208.jpg', 'cat')
Image: 12361 -> Predicted: ('3901.jpg', 'cat')
Image: 12362 -> Predicted: ('5567.jpg', 'cat')
Image: 12363 -> Predicted: ('5504.jpg', 'dog')
Image: 12364 -> Predicted: ('2840.jpg', 'cat')
Image: 12365 -> Predicted: ('4241.jpg', 'cat')
Image: 12366 -> Predicted: ('8814.jpg', 'cat')
Image: 12367 -> Predicted: ('10067.jpg', 'dog')
Image: 12368 -> Predicted: ('7257.jpg', 'cat')
Image: 12369 -> Predicted: ('1752.jpg', 'cat')
Image: 12370 -> Predicted: ('5143.jpg', 'cat')
Image: 12371 -> Predicted: ('3923.jpg', 'dog')
Image: 12372 -> Predicted: ('723.jpg', 'cat')
Image: 12373 -> Predicted: ('11866.jpg', 'cat')
Image: 12374 -> Predicted: ('6582.jpg', 'cat')
Image: 12375 -> Predicted: ('11837.jpg', 'cat')
Image: 12376 -> Predicted: ('9132.jpg', 'cat')
Image: 12377 -> Predicted: ('4779.jpg', 'dog')
Image: 12378 -> Predicted: ('3721.jpg', 'dog')
Image: 12379 -> Predicted: ('9069.jpg', 'cat')
Image: 12380 -> Predicted: ('9930.jpg', 'cat')
Image: 12381 -> Predicted: ('6824.jpg', 'dog')
Image: 12382 -> Predicted: ('415.jpg', 'dog')
Image: 12383 -> Predicted: ('7726.jpg', 'cat')
Image: 12384 -> Predicted: ('4213.jpg', 'dog')
Image: 12385 -> Predicted: ('9134.jpg', 'cat')
Image: 12386 -> Predicted: ('429.jpg', 'cat')
Image: 12387 -> Predicted: ('419.jpg', 'dog')
Image: 12388 -> Predicted: ('8224.jpg', 'cat')
Image: 12389 -> Predicted: ('3992.jpg', 'cat')
Image: 12390 -> Predicted: ('5189.jpg', 'cat')
Image: 12391 -> Predicted: ('4956.jpg', 'dog')
Image: 12392 -> Predicted: ('10990.jpg', 'dog')
Image: 12393 -> Predicted: ('7396.jpg', 'cat')
Image: 12394 -> Predicted: ('2726.jpg', 'cat')

Image: 12395 -> Predicted: ('6297.jpg', 'cat')
Image: 12396 -> Predicted: ('11346.jpg', 'cat')
Image: 12397 -> Predicted: ('6127.jpg', 'cat')
Image: 12398 -> Predicted: ('7239.jpg', 'cat')
Image: 12399 -> Predicted: ('9971.jpg', 'cat')
Image: 12400 -> Predicted: ('3050.jpg', 'dog')
Image: 12401 -> Predicted: ('7658.jpg', 'dog')
Image: 12402 -> Predicted: ('6889.jpg', 'cat')
Image: 12403 -> Predicted: ('9895.jpg', 'cat')
Image: 12404 -> Predicted: ('2720.jpg', 'cat')
Image: 12405 -> Predicted: ('9160.jpg', 'cat')
Image: 12406 -> Predicted: ('5024.jpg', 'cat')
Image: 12407 -> Predicted: ('1278.jpg', 'dog')
Image: 12408 -> Predicted: ('7129.jpg', 'dog')
Image: 12409 -> Predicted: ('3470.jpg', 'cat')
Image: 12410 -> Predicted: ('2422.jpg', 'cat')
Image: 12411 -> Predicted: ('2964.jpg', 'cat')
Image: 12412 -> Predicted: ('9489.jpg', 'cat')
Image: 12413 -> Predicted: ('3791.jpg', 'cat')
Image: 12414 -> Predicted: ('3341.jpg', 'dog')
Image: 12415 -> Predicted: ('3940.jpg', 'cat')
Image: 12416 -> Predicted: ('741.jpg', 'dog')
Image: 12417 -> Predicted: ('7414.jpg', 'cat')
Image: 12418 -> Predicted: ('1968.jpg', 'cat')
Image: 12419 -> Predicted: ('10854.jpg', 'cat')
Image: 12420 -> Predicted: ('9066.jpg', 'cat')
Image: 12421 -> Predicted: ('5334.jpg', 'dog')
Image: 12422 -> Predicted: ('3597.jpg', 'cat')
Image: 12423 -> Predicted: ('6685.jpg', 'dog')
Image: 12424 -> Predicted: ('8443.jpg', 'cat')
Image: 12425 -> Predicted: ('1686.jpg', 'dog')
Image: 12426 -> Predicted: ('2275.jpg', 'cat')
Image: 12427 -> Predicted: ('2759.jpg', 'cat')
Image: 12428 -> Predicted: ('9103.jpg', 'cat')
Image: 12429 -> Predicted: ('447.jpg', 'cat')
Image: 12430 -> Predicted: ('10183.jpg', 'cat')
Image: 12431 -> Predicted: ('3521.jpg', 'dog')
Image: 12432 -> Predicted: ('6269.jpg', 'cat')
Image: 12433 -> Predicted: ('11204.jpg', 'cat')
Image: 12434 -> Predicted: ('12410.jpg', 'cat')
Image: 12435 -> Predicted: ('7054.jpg', 'dog')
Image: 12436 -> Predicted: ('85.jpg', 'cat')
Image: 12437 -> Predicted: ('12281.jpg', 'dog')
Image: 12438 -> Predicted: ('2426.jpg', 'cat')
Image: 12439 -> Predicted: ('3552.jpg', 'cat')
Image: 12440 -> Predicted: ('5691.jpg', 'dog')
Image: 12441 -> Predicted: ('6207.jpg', 'cat')
Image: 12442 -> Predicted: ('7816.jpg', 'dog')

Image: 12443 -> Predicted: ('6313.jpg', 'cat')
Image: 12444 -> Predicted: ('4177.jpg', 'cat')
Image: 12445 -> Predicted: ('5441.jpg', 'cat')
Image: 12446 -> Predicted: ('476.jpg', 'dog')
Image: 12447 -> Predicted: ('7740.jpg', 'cat')
Image: 12448 -> Predicted: ('8287.jpg', 'cat')
Image: 12449 -> Predicted: ('12065.jpg', 'dog')
Image: 12450 -> Predicted: ('1710.jpg', 'cat')
Image: 12451 -> Predicted: ('7489.jpg', 'dog')
Image: 12452 -> Predicted: ('9755.jpg', 'cat')
Image: 12453 -> Predicted: ('12222.jpg', 'dog')
Image: 12454 -> Predicted: ('10979.jpg', 'cat')
Image: 12455 -> Predicted: ('10781.jpg', 'dog')
Image: 12456 -> Predicted: ('9026.jpg', 'cat')
Image: 12457 -> Predicted: ('9902.jpg', 'cat')
Image: 12458 -> Predicted: ('7711.jpg', 'cat')
Image: 12459 -> Predicted: ('10135.jpg', 'cat')
Image: 12460 -> Predicted: ('6446.jpg', 'dog')
Image: 12461 -> Predicted: ('6229.jpg', 'dog')
Image: 12462 -> Predicted: ('4490.jpg', 'dog')
Image: 12463 -> Predicted: ('1951.jpg', 'dog')
Image: 12464 -> Predicted: ('10720.jpg', 'dog')
Image: 12465 -> Predicted: ('4583.jpg', 'cat')
Image: 12466 -> Predicted: ('1268.jpg', 'cat')
Image: 12467 -> Predicted: ('12125.jpg', 'dog')
Image: 12468 -> Predicted: ('11287.jpg', 'cat')
Image: 12469 -> Predicted: ('9513.jpg', 'cat')
Image: 12470 -> Predicted: ('1046.jpg', 'cat')
Image: 12471 -> Predicted: ('11711.jpg', 'dog')
Image: 12472 -> Predicted: ('5043.jpg', 'cat')
Image: 12473 -> Predicted: ('11372.jpg', 'cat')
Image: 12474 -> Predicted: ('11808.jpg', 'cat')
Image: 12475 -> Predicted: ('8837.jpg', 'cat')
Image: 12476 -> Predicted: ('2587.jpg', 'cat')
Image: 12477 -> Predicted: ('12054.jpg', 'cat')
Image: 12478 -> Predicted: ('1586.jpg', 'dog')
Image: 12479 -> Predicted: ('2941.jpg', 'cat')
Image: 12480 -> Predicted: ('11659.jpg', 'cat')
Image: 12481 -> Predicted: ('5194.jpg', 'dog')
Image: 12482 -> Predicted: ('10353.jpg', 'cat')
Image: 12483 -> Predicted: ('56.jpg', 'cat')
Image: 12484 -> Predicted: ('2754.jpg', 'cat')
Image: 12485 -> Predicted: ('11355.jpg', 'cat')
Image: 12486 -> Predicted: ('4934.jpg', 'cat')
Image: 12487 -> Predicted: ('12014.jpg', 'cat')
Image: 12488 -> Predicted: ('5327.jpg', 'cat')
Image: 12489 -> Predicted: ('1969.jpg', 'dog')
Image: 12490 -> Predicted: ('8574.jpg', 'cat')

```
Image: 12491 -> Predicted: ('7828.jpg', 'dog')
Image: 12492 -> Predicted: ('2002.jpg', 'dog')
Image: 12493 -> Predicted: ('10356.jpg', 'dog')
Image: 12494 -> Predicted: ('1162.jpg', 'cat')
Image: 12495 -> Predicted: ('2124.jpg', 'cat')
Image: 12496 -> Predicted: ('7896.jpg', 'dog')
Image: 12497 -> Predicted: ('1128.jpg', 'dog')
Image: 12498 -> Predicted: ('11175.jpg', 'dog')
Image: 12499 -> Predicted: ('4098.jpg', 'cat')
```

2.0.3 gaussianNB

```
[16]: from sklearn.naive_bayes import GaussianNB
      from sklearn.model_selection import StratifiedKFold
      from sklearn.metrics import roc_auc_score, precision_score, recall_score, f1_score
      from sklearn.preprocessing import MinMaxScaler

      # Escalar los valores entre 0 y 1 para garantizar un rango adecuado para GaussianNB
      scaler = MinMaxScaler()
      train_nb_scaled = scaler.fit_transform(train_nb)
      test_nb_scaled = scaler.transform(test_nb)

      # Etiquetas: 1 para perros, 0 para gatos
      y = np.array([1 if 'dog' in img else 0 for img in os.listdir(train_folder)])

      # Crear el modelo Naive Bayes (Gaussian)
      nb_model = GaussianNB()

      # Definir el Stratified K-Fold CV
      skf = StratifiedKFold(n_splits=10)

      # Listas para almacenar los resultados de cada métrica
      auc_scores = []
      precision_scores = []
      recall_scores = []
      f1_scores = []

      # Aplicar 10-fold cross-validation
      for train_index, test_index in skf.split(train_nb_scaled, y):
          X_train, X_test = train_nb_scaled[train_index], train_nb_scaled[test_index]
          y_train, y_test = y[train_index], y[test_index]

          # Entrenar el modelo
          nb_model.fit(X_train, y_train)
```

```

# Hacer predicciones
y_pred = nb_model.predict(X_test)
y_prob = nb_model.predict_proba(X_test)[:, 1]

# Calcular métricas
auc_scores.append(roc_auc_score(y_test, y_prob))
precision_scores.append(precision_score(y_test, y_pred))
recall_scores.append(recall_score(y_test, y_pred))
f1_scores.append(f1_score(y_test, y_pred))

# Mostrar los resultados promedio y desviación estándar
print(f"AUC: {np.mean(auc_scores):.3f} ± {np.std(auc_scores):.3f}")
print(f"Precision: {np.mean(precision_scores):.3f} ± {np.std(precision_scores):.3f}")
print(f"Recall: {np.mean(recall_scores):.3f} ± {np.std(recall_scores):.3f}")
print(f"F1-score: {np.mean(f1_scores):.3f} ± {np.std(f1_scores):.3f}")

```

AUC: 0.724 ± 0.012
 Precision: 0.654 ± 0.010
 Recall: 0.690 ± 0.013
 F1-score: 0.671 ± 0.008

2.0.4 Tres arquitecturas CNN

```

[19]: import tensorflow as tf
      from tensorflow.keras.models import Sequential
      from tensorflow.keras.layers import Conv2D, MaxPooling2D, Flatten, Dense, Dropout

# Arquitectura 1: Modelo básico ajustado para 1 canal (escala de grises)
def create_cnn_model_1():
    model = Sequential([
        Conv2D(32, (3,3), activation='relu', input_shape=(64, 64, 3)),
        MaxPooling2D(pool_size=(2,2)),
        Conv2D(64, (3,3), activation='relu'),
        MaxPooling2D(pool_size=(2,2)),
        Flatten(),
        Dense(128, activation='relu'),
        Dense(2, activation='softmax')
    ])
    return model

# Arquitectura 2: Modelo con más capas ajustado para 1 canal (escala de grises)
def create_cnn_model_2():
    model = Sequential([
        Conv2D(32, (3,3), activation='relu', input_shape=(64, 64, 3)),
        MaxPooling2D(pool_size=(2,2)),

```

```

        Conv2D(64, (3,3), activation='relu'),
        MaxPooling2D(pool_size=(2,2)),
        Conv2D(128, (3,3), activation='relu'),
        MaxPooling2D(pool_size=(2,2)),
        Flatten(),
        Dense(256, activation='relu'),
        Dropout(0.5),
        Dense(2, activation='softmax')
    ])
    return model

# Arquitectura 3: Más densa con Dropout ajustado para 1 canal (escala de grises)
def create_cnn_model_3():
    model = Sequential([
        Conv2D(64, (3,3), activation='relu', input_shape=(64, 64, 3)),
        MaxPooling2D(pool_size=(2,2)),
        Conv2D(128, (3,3), activation='relu'),
        MaxPooling2D(pool_size=(2,2)),
        Conv2D(256, (3,3), activation='relu'),
        MaxPooling2D(pool_size=(2,2)),
        Flatten(),
        Dense(512, activation='relu'),
        Dropout(0.5),
        Dense(2, activation='softmax')
    ])
    return model

```

2.0.5 Entrenar modelos CNN con Stratified 10-Fold CV

```

[20]: from tensorflow.keras.utils import to_categorical
      from sklearn.model_selection import StratifiedKFold
      from sklearn.metrics import roc_auc_score, precision_score, recall_score, f1_score
      import matplotlib.pyplot as plt

      # Convertir etiquetas a one-hot encoding para CNN
      y_categorical = to_categorical(y, num_classes=2)

      # Definir StratifiedKFold
      skf = StratifiedKFold(n_splits=10)

      # Función para entrenar y mostrar métricas sin Wandb
      def train_cnn_model(model_fn):
          fold = 0
          training_losses = []
          validation_losses = []

```

```

# Listas para almacenar las métricas de cada fold
auc_scores = []
precision_scores = []
recall_scores = []
f1_scores = []

for train_index, test_index in skf.split(train_cnn, y): # Usar train_cnn
    ↪ en lugar de train_images
        fold += 1
        print("-----")
        print(f"\nTraining Fold {fold}...")

        X_train, X_test = train_cnn[train_index], train_cnn[test_index] # Usar
        ↪ train_cnn en lugar de train_images
        y_train, y_test = y_categorical[train_index], y_categorical[test_index]

        # Crear el modelo
        model = model_fn()
        model.compile(optimizer='adam', loss='categorical_crossentropy',
        ↪ metrics=['accuracy'])

        # Entrenar el modelo
        history = model.fit(X_train, y_train, validation_data=(X_test, y_test),
        ↪ epochs=10, batch_size=32)

        # Guardar pérdidas
        training_losses.append(history.history['loss'])
        validation_losses.append(history.history['val_loss'])

        # Hacer predicciones para las métricas
        y_pred = model.predict(X_test)
        y_pred_class = y_pred.argmax(axis=1)
        y_true = y_test.argmax(axis=1)

        # Calcular las métricas
        auc = roc_auc_score(y_true, y_pred[:, 1])
        precision = precision_score(y_true, y_pred_class)
        recall = recall_score(y_true, y_pred_class)
        f1 = f1_score(y_true, y_pred_class)

        # Guardar métricas
        auc_scores.append(auc)
        precision_scores.append(precision)
        recall_scores.append(recall)
        f1_scores.append(f1)

# Mostrar los resultados promedio y desviación estándar

```



```

print(f"\nResults")
print(f"AUC: {np.mean(auc_scores):.3f} ± {np.std(auc_scores):.3f}")
print(f"Precision: {np.mean(precision_scores):.3f} ± {np.
↪std(precision_scores):.3f}")
print(f"Recall: {np.mean(recall_scores):.3f} ± {np.std(recall_scores):.3f}")
print(f"F1-score: {np.mean(f1_scores):.3f} ± {np.std(f1_scores):.3f}")

# Graficar las pérdidas (loss) de entrenamiento y validación
plt.figure(figsize=(10, 5))
plt.plot(np.mean(training_losses, axis=0), label="Training Loss")
plt.plot(np.mean(validation_losses, axis=0), label="Validation Loss")
plt.title("Training vs Validation Loss")
plt.xlabel("Epochs")
plt.ylabel("Loss")
plt.legend()
plt.show()

# Entrenar usando el primer modelo CNN
train_cnn_model(create_cnn_model_1)

```

Training Fold 1...

Epoch 1/10

704/704 [=====] - 4s 3ms/step - loss: 0.5984 -
accuracy: 0.6680 - val_loss: 0.5302 - val_accuracy: 0.7308

Epoch 2/10

704/704 [=====] - 2s 2ms/step - loss: 0.4868 -
accuracy: 0.7643 - val_loss: 0.4507 - val_accuracy: 0.7916

Epoch 3/10

704/704 [=====] - 2s 2ms/step - loss: 0.4270 -
accuracy: 0.8020 - val_loss: 0.4612 - val_accuracy: 0.7872

Epoch 4/10

704/704 [=====] - 2s 3ms/step - loss: 0.3708 -
accuracy: 0.8320 - val_loss: 0.4577 - val_accuracy: 0.7984

Epoch 5/10

704/704 [=====] - 2s 3ms/step - loss: 0.3147 -
accuracy: 0.8616 - val_loss: 0.4419 - val_accuracy: 0.8064

Epoch 6/10

704/704 [=====] - 2s 3ms/step - loss: 0.2568 -
accuracy: 0.8888 - val_loss: 0.4540 - val_accuracy: 0.8064

Epoch 7/10

704/704 [=====] - 2s 3ms/step - loss: 0.1969 -
accuracy: 0.9195 - val_loss: 0.5060 - val_accuracy: 0.8072

Epoch 8/10

704/704 [=====] - 2s 3ms/step - loss: 0.1432 -
accuracy: 0.9434 - val_loss: 0.6085 - val_accuracy: 0.7852

Epoch 9/10
704/704 [=====] - 2s 3ms/step - loss: 0.1035 -
accuracy: 0.9604 - val_loss: 0.7182 - val_accuracy: 0.7904
Epoch 10/10
704/704 [=====] - 2s 3ms/step - loss: 0.0677 -
accuracy: 0.9761 - val_loss: 0.8648 - val_accuracy: 0.7820
79/79 [=====] - 0s 1ms/step

Training Fold 2...

Epoch 1/10
704/704 [=====] - 3s 3ms/step - loss: 0.5796 -
accuracy: 0.6885 - val_loss: 0.5315 - val_accuracy: 0.7352
Epoch 2/10
704/704 [=====] - 2s 2ms/step - loss: 0.4738 -
accuracy: 0.7744 - val_loss: 0.4413 - val_accuracy: 0.7968
Epoch 3/10
704/704 [=====] - 2s 2ms/step - loss: 0.4071 -
accuracy: 0.8130 - val_loss: 0.4132 - val_accuracy: 0.8080
Epoch 4/10
704/704 [=====] - 2s 2ms/step - loss: 0.3475 -
accuracy: 0.8440 - val_loss: 0.4102 - val_accuracy: 0.8164
Epoch 5/10
704/704 [=====] - 2s 2ms/step - loss: 0.2790 -
accuracy: 0.8791 - val_loss: 0.4350 - val_accuracy: 0.8140
Epoch 6/10
704/704 [=====] - 2s 2ms/step - loss: 0.1957 -
accuracy: 0.9195 - val_loss: 0.5426 - val_accuracy: 0.7784
Epoch 7/10
704/704 [=====] - 2s 2ms/step - loss: 0.1283 -
accuracy: 0.9508 - val_loss: 0.5441 - val_accuracy: 0.8088
Epoch 8/10
704/704 [=====] - 2s 2ms/step - loss: 0.0757 -
accuracy: 0.9728 - val_loss: 0.6991 - val_accuracy: 0.8132
Epoch 9/10
704/704 [=====] - 2s 2ms/step - loss: 0.0494 -
accuracy: 0.9839 - val_loss: 0.7364 - val_accuracy: 0.8124
Epoch 10/10
704/704 [=====] - 2s 2ms/step - loss: 0.0395 -
accuracy: 0.9872 - val_loss: 0.8229 - val_accuracy: 0.7924
79/79 [=====] - 0s 1ms/step

Training Fold 3...

Epoch 1/10
704/704 [=====] - 3s 3ms/step - loss: 0.6073 -
accuracy: 0.6647 - val_loss: 0.5295 - val_accuracy: 0.7356
Epoch 2/10

```

704/704 [=====] - 2s 2ms/step - loss: 0.4897 -
accuracy: 0.7655 - val_loss: 0.4666 - val_accuracy: 0.7732
Epoch 3/10
704/704 [=====] - 2s 3ms/step - loss: 0.4335 -
accuracy: 0.8021 - val_loss: 0.4135 - val_accuracy: 0.7984
Epoch 4/10
704/704 [=====] - 2s 3ms/step - loss: 0.3902 -
accuracy: 0.8255 - val_loss: 0.3958 - val_accuracy: 0.8184
Epoch 5/10
704/704 [=====] - 2s 2ms/step - loss: 0.3454 -
accuracy: 0.8473 - val_loss: 0.4022 - val_accuracy: 0.8152
Epoch 6/10
704/704 [=====] - 2s 2ms/step - loss: 0.3025 -
accuracy: 0.8691 - val_loss: 0.4134 - val_accuracy: 0.8120
Epoch 7/10
704/704 [=====] - 2s 2ms/step - loss: 0.2624 -
accuracy: 0.8887 - val_loss: 0.4166 - val_accuracy: 0.8192
Epoch 8/10
704/704 [=====] - 2s 2ms/step - loss: 0.2205 -
accuracy: 0.9069 - val_loss: 0.4515 - val_accuracy: 0.8140
Epoch 9/10
704/704 [=====] - 2s 2ms/step - loss: 0.1824 -
accuracy: 0.9253 - val_loss: 0.4939 - val_accuracy: 0.8116
Epoch 10/10
704/704 [=====] - 2s 2ms/step - loss: 0.1453 -
accuracy: 0.9414 - val_loss: 0.5550 - val_accuracy: 0.8008
79/79 [=====] - 0s 1ms/step
-----

```

Training Fold 4...

```

Epoch 1/10
704/704 [=====] - 3s 3ms/step - loss: 0.5973 -
accuracy: 0.6666 - val_loss: 0.5328 - val_accuracy: 0.7332
Epoch 2/10
704/704 [=====] - 2s 3ms/step - loss: 0.4698 -
accuracy: 0.7795 - val_loss: 0.4756 - val_accuracy: 0.7712
Epoch 3/10
704/704 [=====] - 2s 2ms/step - loss: 0.4073 -
accuracy: 0.8144 - val_loss: 0.4548 - val_accuracy: 0.7792
Epoch 4/10
704/704 [=====] - 2s 2ms/step - loss: 0.3532 -
accuracy: 0.8441 - val_loss: 0.4198 - val_accuracy: 0.8032
Epoch 5/10
704/704 [=====] - 2s 3ms/step - loss: 0.2938 -
accuracy: 0.8739 - val_loss: 0.4614 - val_accuracy: 0.7984
Epoch 6/10
704/704 [=====] - 2s 2ms/step - loss: 0.2356 -
accuracy: 0.9016 - val_loss: 0.5326 - val_accuracy: 0.8008

```

```

Epoch 7/10
704/704 [=====] - 2s 2ms/step - loss: 0.1676 -
accuracy: 0.9337 - val_loss: 0.5271 - val_accuracy: 0.8100
Epoch 8/10
704/704 [=====] - 2s 2ms/step - loss: 0.1122 -
accuracy: 0.9589 - val_loss: 0.6233 - val_accuracy: 0.8016
Epoch 9/10
704/704 [=====] - 2s 2ms/step - loss: 0.0696 -
accuracy: 0.9752 - val_loss: 0.7040 - val_accuracy: 0.8000
Epoch 10/10
704/704 [=====] - 2s 2ms/step - loss: 0.0525 -
accuracy: 0.9823 - val_loss: 0.9225 - val_accuracy: 0.7856
79/79 [=====] - 0s 1ms/step
-----

```

Training Fold 5...

```

Epoch 1/10
704/704 [=====] - 3s 3ms/step - loss: 0.5912 -
accuracy: 0.6760 - val_loss: 0.5174 - val_accuracy: 0.7428
Epoch 2/10
704/704 [=====] - 2s 3ms/step - loss: 0.4763 -
accuracy: 0.7720 - val_loss: 0.4700 - val_accuracy: 0.7796
Epoch 3/10
704/704 [=====] - 2s 3ms/step - loss: 0.4149 -
accuracy: 0.8104 - val_loss: 0.4423 - val_accuracy: 0.7880
Epoch 4/10
704/704 [=====] - 2s 3ms/step - loss: 0.3566 -
accuracy: 0.8416 - val_loss: 0.4832 - val_accuracy: 0.7860
Epoch 5/10
704/704 [=====] - 2s 3ms/step - loss: 0.2846 -
accuracy: 0.8778 - val_loss: 0.4788 - val_accuracy: 0.8048
Epoch 6/10
704/704 [=====] - 2s 3ms/step - loss: 0.1985 -
accuracy: 0.9182 - val_loss: 0.5224 - val_accuracy: 0.8152
Epoch 7/10
704/704 [=====] - 2s 3ms/step - loss: 0.1251 -
accuracy: 0.9528 - val_loss: 0.7351 - val_accuracy: 0.7800
Epoch 8/10
704/704 [=====] - 2s 3ms/step - loss: 0.0783 -
accuracy: 0.9718 - val_loss: 0.7164 - val_accuracy: 0.8020
Epoch 9/10
704/704 [=====] - 2s 3ms/step - loss: 0.0468 -
accuracy: 0.9842 - val_loss: 0.7473 - val_accuracy: 0.8100
Epoch 10/10
704/704 [=====] - 2s 3ms/step - loss: 0.0432 -
accuracy: 0.9860 - val_loss: 0.9409 - val_accuracy: 0.7956
79/79 [=====] - 0s 1ms/step
-----

```

Training Fold 6...

Epoch 1/10

704/704 [=====] - 3s 3ms/step - loss: 0.6499 -
accuracy: 0.6175 - val_loss: 0.5716 - val_accuracy: 0.7112

Epoch 2/10

704/704 [=====] - 2s 3ms/step - loss: 0.5184 -
accuracy: 0.7475 - val_loss: 0.4878 - val_accuracy: 0.7576

Epoch 3/10

704/704 [=====] - 2s 3ms/step - loss: 0.4299 -
accuracy: 0.7988 - val_loss: 0.4716 - val_accuracy: 0.7808

Epoch 4/10

704/704 [=====] - 2s 3ms/step - loss: 0.3507 -
accuracy: 0.8466 - val_loss: 0.4389 - val_accuracy: 0.7932

Epoch 5/10

704/704 [=====] - 2s 3ms/step - loss: 0.2521 -
accuracy: 0.8940 - val_loss: 0.4550 - val_accuracy: 0.8112

Epoch 6/10

704/704 [=====] - 2s 3ms/step - loss: 0.1422 -
accuracy: 0.9444 - val_loss: 0.5378 - val_accuracy: 0.8068

Epoch 7/10

704/704 [=====] - 2s 3ms/step - loss: 0.0713 -
accuracy: 0.9754 - val_loss: 0.6819 - val_accuracy: 0.8064

Epoch 8/10

704/704 [=====] - 2s 3ms/step - loss: 0.0363 -
accuracy: 0.9884 - val_loss: 0.7943 - val_accuracy: 0.7972

Epoch 9/10

704/704 [=====] - 2s 3ms/step - loss: 0.0236 -
accuracy: 0.9932 - val_loss: 0.8553 - val_accuracy: 0.7928

Epoch 10/10

704/704 [=====] - 2s 3ms/step - loss: 0.0299 -
accuracy: 0.9909 - val_loss: 1.0413 - val_accuracy: 0.7828

79/79 [=====] - 0s 1ms/step

Training Fold 7...

Epoch 1/10

704/704 [=====] - 3s 3ms/step - loss: 0.5952 -
accuracy: 0.6662 - val_loss: 0.4835 - val_accuracy: 0.7716

Epoch 2/10

704/704 [=====] - 2s 3ms/step - loss: 0.4715 -
accuracy: 0.7750 - val_loss: 0.4388 - val_accuracy: 0.7956

Epoch 3/10

704/704 [=====] - 2s 3ms/step - loss: 0.4084 -
accuracy: 0.8121 - val_loss: 0.4251 - val_accuracy: 0.8036

Epoch 4/10

704/704 [=====] - 2s 3ms/step - loss: 0.3514 -
accuracy: 0.8410 - val_loss: 0.4275 - val_accuracy: 0.8044

```

Epoch 5/10
704/704 [=====] - 2s 3ms/step - loss: 0.2905 -
accuracy: 0.8749 - val_loss: 0.4412 - val_accuracy: 0.8060
Epoch 6/10
704/704 [=====] - 2s 3ms/step - loss: 0.2148 -
accuracy: 0.9084 - val_loss: 0.5060 - val_accuracy: 0.7972
Epoch 7/10
704/704 [=====] - 2s 3ms/step - loss: 0.1424 -
accuracy: 0.9447 - val_loss: 0.5522 - val_accuracy: 0.8036
Epoch 8/10
704/704 [=====] - 2s 3ms/step - loss: 0.0855 -
accuracy: 0.9687 - val_loss: 0.8098 - val_accuracy: 0.7908
Epoch 9/10
704/704 [=====] - 2s 3ms/step - loss: 0.0530 -
accuracy: 0.9824 - val_loss: 0.8126 - val_accuracy: 0.7920
Epoch 10/10
704/704 [=====] - 2s 3ms/step - loss: 0.0442 -
accuracy: 0.9858 - val_loss: 0.9574 - val_accuracy: 0.7888
79/79 [=====] - 0s 1ms/step
-----

```

Training Fold 8...

```

Epoch 1/10
704/704 [=====] - 3s 3ms/step - loss: 0.5761 -
accuracy: 0.6899 - val_loss: 0.4766 - val_accuracy: 0.7756
Epoch 2/10
704/704 [=====] - 2s 3ms/step - loss: 0.4641 -
accuracy: 0.7814 - val_loss: 0.4516 - val_accuracy: 0.7844
Epoch 3/10
704/704 [=====] - 2s 3ms/step - loss: 0.4043 -
accuracy: 0.8153 - val_loss: 0.4304 - val_accuracy: 0.8008
Epoch 4/10
704/704 [=====] - 2s 3ms/step - loss: 0.3439 -
accuracy: 0.8489 - val_loss: 0.4128 - val_accuracy: 0.8036
Epoch 5/10
704/704 [=====] - 2s 3ms/step - loss: 0.2746 -
accuracy: 0.8820 - val_loss: 0.4409 - val_accuracy: 0.8212
Epoch 6/10
704/704 [=====] - 2s 3ms/step - loss: 0.2050 -
accuracy: 0.9160 - val_loss: 0.4891 - val_accuracy: 0.8064
Epoch 7/10
704/704 [=====] - 2s 3ms/step - loss: 0.1356 -
accuracy: 0.9471 - val_loss: 0.5606 - val_accuracy: 0.8076
Epoch 8/10
704/704 [=====] - 2s 3ms/step - loss: 0.0775 -
accuracy: 0.9721 - val_loss: 0.6816 - val_accuracy: 0.8072
Epoch 9/10
704/704 [=====] - 2s 3ms/step - loss: 0.0570 -

```

```
accuracy: 0.9810 - val_loss: 0.8747 - val_accuracy: 0.7948
Epoch 10/10
704/704 [=====] - 2s 3ms/step - loss: 0.0425 -
accuracy: 0.9861 - val_loss: 0.8509 - val_accuracy: 0.8008
79/79 [=====] - 0s 1ms/step
-----
```

Training Fold 9...

```
Epoch 1/10
704/704 [=====] - 3s 3ms/step - loss: 0.5913 -
accuracy: 0.6714 - val_loss: 0.5178 - val_accuracy: 0.7432
Epoch 2/10
704/704 [=====] - 2s 2ms/step - loss: 0.4620 -
accuracy: 0.7793 - val_loss: 0.6009 - val_accuracy: 0.7140
Epoch 3/10
704/704 [=====] - 2s 2ms/step - loss: 0.4033 -
accuracy: 0.8144 - val_loss: 0.4476 - val_accuracy: 0.7904
Epoch 4/10
704/704 [=====] - 2s 2ms/step - loss: 0.3516 -
accuracy: 0.8442 - val_loss: 0.4462 - val_accuracy: 0.7956
Epoch 5/10
704/704 [=====] - 2s 2ms/step - loss: 0.3024 -
accuracy: 0.8667 - val_loss: 0.4652 - val_accuracy: 0.7828
Epoch 6/10
704/704 [=====] - 2s 2ms/step - loss: 0.2492 -
accuracy: 0.8948 - val_loss: 0.4769 - val_accuracy: 0.8108
Epoch 7/10
704/704 [=====] - 2s 2ms/step - loss: 0.1960 -
accuracy: 0.9188 - val_loss: 0.5178 - val_accuracy: 0.7932
Epoch 8/10
704/704 [=====] - 2s 3ms/step - loss: 0.1449 -
accuracy: 0.9425 - val_loss: 0.6161 - val_accuracy: 0.8012
Epoch 9/10
704/704 [=====] - 2s 3ms/step - loss: 0.0981 -
accuracy: 0.9633 - val_loss: 0.6995 - val_accuracy: 0.7832
Epoch 10/10
704/704 [=====] - 2s 2ms/step - loss: 0.0750 -
accuracy: 0.9732 - val_loss: 0.8105 - val_accuracy: 0.7848
79/79 [=====] - 0s 1ms/step
-----
```

Training Fold 10...

```
Epoch 1/10
704/704 [=====] - 3s 3ms/step - loss: 0.6103 -
accuracy: 0.6543 - val_loss: 0.5174 - val_accuracy: 0.7480
Epoch 2/10
704/704 [=====] - 2s 2ms/step - loss: 0.4874 -
accuracy: 0.7638 - val_loss: 0.4544 - val_accuracy: 0.7916
```

Epoch 3/10
704/704 [=====] - 2s 2ms/step - loss: 0.4194 -
accuracy: 0.8053 - val_loss: 0.4546 - val_accuracy: 0.7904
Epoch 4/10
704/704 [=====] - 2s 2ms/step - loss: 0.3489 -
accuracy: 0.8414 - val_loss: 0.4287 - val_accuracy: 0.8128
Epoch 5/10
704/704 [=====] - 2s 2ms/step - loss: 0.2619 -
accuracy: 0.8876 - val_loss: 0.5055 - val_accuracy: 0.7988
Epoch 6/10
704/704 [=====] - 2s 2ms/step - loss: 0.1688 -
accuracy: 0.9313 - val_loss: 0.6126 - val_accuracy: 0.7992
Epoch 7/10
704/704 [=====] - 2s 2ms/step - loss: 0.0900 -
accuracy: 0.9674 - val_loss: 0.7873 - val_accuracy: 0.7868
Epoch 8/10
704/704 [=====] - 2s 2ms/step - loss: 0.0527 -
accuracy: 0.9820 - val_loss: 0.9198 - val_accuracy: 0.7876
Epoch 9/10
704/704 [=====] - 2s 3ms/step - loss: 0.0366 -
accuracy: 0.9887 - val_loss: 1.0130 - val_accuracy: 0.7828
Epoch 10/10
704/704 [=====] - 2s 2ms/step - loss: 0.0296 -
accuracy: 0.9905 - val_loss: 1.1448 - val_accuracy: 0.7956
79/79 [=====] - 0s 1ms/step

Results

AUC: 0.878 ± 0.007
Precision: 0.793 ± 0.034
Recall: 0.793 ± 0.051
F1-score: 0.791 ± 0.011



```
[21]: # Entrenar usando el primer modelo CNN
train_cnn_model(create_cnn_model_2)
```

Training Fold 1...

Epoch 1/10

704/704 [=====] - 4s 3ms/step - loss: 0.6203 -
accuracy: 0.6448 - val_loss: 0.5310 - val_accuracy: 0.7452

Epoch 2/10

704/704 [=====] - 2s 3ms/step - loss: 0.4768 -
accuracy: 0.7719 - val_loss: 0.4297 - val_accuracy: 0.8048

Epoch 3/10

704/704 [=====] - 2s 3ms/step - loss: 0.3979 -
accuracy: 0.8197 - val_loss: 0.4348 - val_accuracy: 0.7916

Epoch 4/10

704/704 [=====] - 2s 3ms/step - loss: 0.3480 -
accuracy: 0.8468 - val_loss: 0.3665 - val_accuracy: 0.8388

Epoch 5/10

704/704 [=====] - 2s 3ms/step - loss: 0.2956 -
accuracy: 0.8719 - val_loss: 0.3589 - val_accuracy: 0.8308

Epoch 6/10

704/704 [=====] - 2s 3ms/step - loss: 0.2529 -
accuracy: 0.8934 - val_loss: 0.3431 - val_accuracy: 0.8520

Epoch 7/10

704/704 [=====] - 2s 3ms/step - loss: 0.2104 -
accuracy: 0.9129 - val_loss: 0.3563 - val_accuracy: 0.8536

```

Epoch 8/10
704/704 [=====] - 2s 3ms/step - loss: 0.1735 -
accuracy: 0.9275 - val_loss: 0.3952 - val_accuracy: 0.8456
Epoch 9/10
704/704 [=====] - 2s 3ms/step - loss: 0.1414 -
accuracy: 0.9426 - val_loss: 0.4548 - val_accuracy: 0.8548
Epoch 10/10
704/704 [=====] - 2s 3ms/step - loss: 0.1165 -
accuracy: 0.9532 - val_loss: 0.5003 - val_accuracy: 0.8416
79/79 [=====] - 0s 1ms/step
-----

```

Training Fold 2...

```

Epoch 1/10
704/704 [=====] - 3s 3ms/step - loss: 0.6162 -
accuracy: 0.6541 - val_loss: 0.5512 - val_accuracy: 0.7180
Epoch 2/10
704/704 [=====] - 2s 3ms/step - loss: 0.4847 -
accuracy: 0.7708 - val_loss: 0.4668 - val_accuracy: 0.7812
Epoch 3/10
704/704 [=====] - 2s 3ms/step - loss: 0.4205 -
accuracy: 0.8093 - val_loss: 0.3998 - val_accuracy: 0.8228
Epoch 4/10
704/704 [=====] - 2s 3ms/step - loss: 0.3738 -
accuracy: 0.8319 - val_loss: 0.3619 - val_accuracy: 0.8372
Epoch 5/10
704/704 [=====] - 2s 3ms/step - loss: 0.3203 -
accuracy: 0.8617 - val_loss: 0.3665 - val_accuracy: 0.8392
Epoch 6/10
704/704 [=====] - 2s 3ms/step - loss: 0.2809 -
accuracy: 0.8804 - val_loss: 0.3622 - val_accuracy: 0.8500
Epoch 7/10
704/704 [=====] - 2s 3ms/step - loss: 0.2388 -
accuracy: 0.9001 - val_loss: 0.4069 - val_accuracy: 0.8328
Epoch 8/10
704/704 [=====] - 2s 3ms/step - loss: 0.1938 -
accuracy: 0.9202 - val_loss: 0.3646 - val_accuracy: 0.8640
Epoch 9/10
704/704 [=====] - 2s 3ms/step - loss: 0.1646 -
accuracy: 0.9334 - val_loss: 0.4133 - val_accuracy: 0.8444
Epoch 10/10
704/704 [=====] - 2s 3ms/step - loss: 0.1290 -
accuracy: 0.9492 - val_loss: 0.4262 - val_accuracy: 0.8628
79/79 [=====] - 0s 1ms/step
-----

```

Training Fold 3...

Epoch 1/10

```

704/704 [=====] - 3s 3ms/step - loss: 0.5918 -
accuracy: 0.6745 - val_loss: 0.4895 - val_accuracy: 0.7652
Epoch 2/10
704/704 [=====] - 2s 3ms/step - loss: 0.4659 -
accuracy: 0.7807 - val_loss: 0.4212 - val_accuracy: 0.8072
Epoch 3/10
704/704 [=====] - 2s 3ms/step - loss: 0.3950 -
accuracy: 0.8195 - val_loss: 0.3711 - val_accuracy: 0.8308
Epoch 4/10
704/704 [=====] - 2s 3ms/step - loss: 0.3423 -
accuracy: 0.8469 - val_loss: 0.3485 - val_accuracy: 0.8496
Epoch 5/10
704/704 [=====] - 2s 3ms/step - loss: 0.2992 -
accuracy: 0.8710 - val_loss: 0.3368 - val_accuracy: 0.8496
Epoch 6/10
704/704 [=====] - 2s 3ms/step - loss: 0.2574 -
accuracy: 0.8907 - val_loss: 0.3478 - val_accuracy: 0.8456
Epoch 7/10
704/704 [=====] - 2s 3ms/step - loss: 0.2240 -
accuracy: 0.9046 - val_loss: 0.3379 - val_accuracy: 0.8592
Epoch 8/10
704/704 [=====] - 2s 3ms/step - loss: 0.1879 -
accuracy: 0.9233 - val_loss: 0.3659 - val_accuracy: 0.8612
Epoch 9/10
704/704 [=====] - 2s 3ms/step - loss: 0.1562 -
accuracy: 0.9370 - val_loss: 0.4186 - val_accuracy: 0.8448
Epoch 10/10
704/704 [=====] - 2s 3ms/step - loss: 0.1294 -
accuracy: 0.9483 - val_loss: 0.4938 - val_accuracy: 0.8528
79/79 [=====] - 0s 1ms/step
-----

```

Training Fold 4...

```

Epoch 1/10
704/704 [=====] - 4s 3ms/step - loss: 0.6145 -
accuracy: 0.6485 - val_loss: 0.5241 - val_accuracy: 0.7340
Epoch 2/10
704/704 [=====] - 2s 3ms/step - loss: 0.4849 -
accuracy: 0.7691 - val_loss: 0.4640 - val_accuracy: 0.7808
Epoch 3/10
704/704 [=====] - 2s 3ms/step - loss: 0.4099 -
accuracy: 0.8150 - val_loss: 0.4393 - val_accuracy: 0.7892
Epoch 4/10
704/704 [=====] - 2s 3ms/step - loss: 0.3603 -
accuracy: 0.8420 - val_loss: 0.3857 - val_accuracy: 0.8244
Epoch 5/10
704/704 [=====] - 2s 3ms/step - loss: 0.3176 -
accuracy: 0.8588 - val_loss: 0.3748 - val_accuracy: 0.8224

```

```

Epoch 6/10
704/704 [=====] - 2s 3ms/step - loss: 0.2840 -
accuracy: 0.8762 - val_loss: 0.4060 - val_accuracy: 0.8176
Epoch 7/10
704/704 [=====] - 2s 3ms/step - loss: 0.2421 -
accuracy: 0.8970 - val_loss: 0.4032 - val_accuracy: 0.8324
Epoch 8/10
704/704 [=====] - 2s 3ms/step - loss: 0.2137 -
accuracy: 0.9113 - val_loss: 0.4440 - val_accuracy: 0.8224
Epoch 9/10
704/704 [=====] - 2s 3ms/step - loss: 0.1833 -
accuracy: 0.9256 - val_loss: 0.4832 - val_accuracy: 0.8264
Epoch 10/10
704/704 [=====] - 2s 3ms/step - loss: 0.1547 -
accuracy: 0.9392 - val_loss: 0.4581 - val_accuracy: 0.8452
79/79 [=====] - 0s 1ms/step
-----

```

Training Fold 5...

```

Epoch 1/10
704/704 [=====] - 4s 4ms/step - loss: 0.5997 -
accuracy: 0.6687 - val_loss: 0.5263 - val_accuracy: 0.7232
Epoch 2/10
704/704 [=====] - 2s 3ms/step - loss: 0.4710 -
accuracy: 0.7756 - val_loss: 0.4218 - val_accuracy: 0.8000
Epoch 3/10
704/704 [=====] - 2s 3ms/step - loss: 0.4074 -
accuracy: 0.8132 - val_loss: 0.3644 - val_accuracy: 0.8324
Epoch 4/10
704/704 [=====] - 2s 3ms/step - loss: 0.3569 -
accuracy: 0.8425 - val_loss: 0.3525 - val_accuracy: 0.8504
Epoch 5/10
704/704 [=====] - 2s 3ms/step - loss: 0.3134 -
accuracy: 0.8611 - val_loss: 0.3329 - val_accuracy: 0.8508
Epoch 6/10
704/704 [=====] - 2s 3ms/step - loss: 0.2760 -
accuracy: 0.8814 - val_loss: 0.3878 - val_accuracy: 0.8400
Epoch 7/10
704/704 [=====] - 2s 3ms/step - loss: 0.2354 -
accuracy: 0.9023 - val_loss: 0.3580 - val_accuracy: 0.8564
Epoch 8/10
704/704 [=====] - 2s 3ms/step - loss: 0.2074 -
accuracy: 0.9163 - val_loss: 0.3580 - val_accuracy: 0.8636
Epoch 9/10
704/704 [=====] - 2s 3ms/step - loss: 0.1721 -
accuracy: 0.9279 - val_loss: 0.3720 - val_accuracy: 0.8640
Epoch 10/10
704/704 [=====] - 2s 3ms/step - loss: 0.1443 -

```

accuracy: 0.9407 - val_loss: 0.4144 - val_accuracy: 0.8652
79/79 [=====] - 0s 1ms/step

Training Fold 6...

Epoch 1/10

704/704 [=====] - 4s 3ms/step - loss: 0.6082 -
accuracy: 0.6568 - val_loss: 0.4755 - val_accuracy: 0.7748

Epoch 2/10

704/704 [=====] - 2s 3ms/step - loss: 0.4731 -
accuracy: 0.7758 - val_loss: 0.4055 - val_accuracy: 0.8132

Epoch 3/10

704/704 [=====] - 2s 3ms/step - loss: 0.4091 -
accuracy: 0.8138 - val_loss: 0.3814 - val_accuracy: 0.8212

Epoch 4/10

704/704 [=====] - 2s 3ms/step - loss: 0.3604 -
accuracy: 0.8386 - val_loss: 0.3429 - val_accuracy: 0.8520

Epoch 5/10

704/704 [=====] - 2s 3ms/step - loss: 0.3232 -
accuracy: 0.8584 - val_loss: 0.3452 - val_accuracy: 0.8448

Epoch 6/10

704/704 [=====] - 2s 3ms/step - loss: 0.2839 -
accuracy: 0.8765 - val_loss: 0.3262 - val_accuracy: 0.8528

Epoch 7/10

704/704 [=====] - 2s 3ms/step - loss: 0.2461 -
accuracy: 0.8949 - val_loss: 0.3173 - val_accuracy: 0.8632

Epoch 8/10

704/704 [=====] - 2s 3ms/step - loss: 0.2044 -
accuracy: 0.9160 - val_loss: 0.3242 - val_accuracy: 0.8684

Epoch 9/10

704/704 [=====] - 2s 3ms/step - loss: 0.1746 -
accuracy: 0.9285 - val_loss: 0.3719 - val_accuracy: 0.8648

Epoch 10/10

704/704 [=====] - 2s 3ms/step - loss: 0.1439 -
accuracy: 0.9409 - val_loss: 0.3850 - val_accuracy: 0.8652

79/79 [=====] - 0s 1ms/step

Training Fold 7...

Epoch 1/10

704/704 [=====] - 4s 3ms/step - loss: 0.6188 -
accuracy: 0.6412 - val_loss: 0.5517 - val_accuracy: 0.7148

Epoch 2/10

704/704 [=====] - 2s 3ms/step - loss: 0.4826 -
accuracy: 0.7688 - val_loss: 0.4159 - val_accuracy: 0.8096

Epoch 3/10

704/704 [=====] - 2s 3ms/step - loss: 0.4045 -
accuracy: 0.8156 - val_loss: 0.4390 - val_accuracy: 0.7948

```

Epoch 4/10
704/704 [=====] - 2s 3ms/step - loss: 0.3457 -
accuracy: 0.8498 - val_loss: 0.3860 - val_accuracy: 0.8248
Epoch 5/10
704/704 [=====] - 2s 3ms/step - loss: 0.2983 -
accuracy: 0.8718 - val_loss: 0.3860 - val_accuracy: 0.8232
Epoch 6/10
704/704 [=====] - 2s 3ms/step - loss: 0.2515 -
accuracy: 0.8937 - val_loss: 0.3935 - val_accuracy: 0.8468
Epoch 7/10
704/704 [=====] - 2s 3ms/step - loss: 0.2109 -
accuracy: 0.9118 - val_loss: 0.3631 - val_accuracy: 0.8548
Epoch 8/10
704/704 [=====] - 2s 3ms/step - loss: 0.1716 -
accuracy: 0.9308 - val_loss: 0.4905 - val_accuracy: 0.8432
Epoch 9/10
704/704 [=====] - 2s 3ms/step - loss: 0.1417 -
accuracy: 0.9432 - val_loss: 0.4348 - val_accuracy: 0.8412
Epoch 10/10
704/704 [=====] - 2s 3ms/step - loss: 0.1156 -
accuracy: 0.9546 - val_loss: 0.4873 - val_accuracy: 0.8560
79/79 [=====] - 0s 1ms/step
-----

```

Training Fold 8...

```

Epoch 1/10
704/704 [=====] - 4s 3ms/step - loss: 0.6484 -
accuracy: 0.6047 - val_loss: 0.5731 - val_accuracy: 0.7024
Epoch 2/10
704/704 [=====] - 2s 3ms/step - loss: 0.5080 -
accuracy: 0.7480 - val_loss: 0.4573 - val_accuracy: 0.7852
Epoch 3/10
704/704 [=====] - 2s 3ms/step - loss: 0.4378 -
accuracy: 0.7978 - val_loss: 0.4163 - val_accuracy: 0.8100
Epoch 4/10
704/704 [=====] - 2s 3ms/step - loss: 0.3744 -
accuracy: 0.8319 - val_loss: 0.3845 - val_accuracy: 0.8276
Epoch 5/10
704/704 [=====] - 2s 3ms/step - loss: 0.3359 -
accuracy: 0.8509 - val_loss: 0.3723 - val_accuracy: 0.8352
Epoch 6/10
704/704 [=====] - 2s 3ms/step - loss: 0.2941 -
accuracy: 0.8725 - val_loss: 0.3794 - val_accuracy: 0.8272
Epoch 7/10
704/704 [=====] - 2s 3ms/step - loss: 0.2616 -
accuracy: 0.8894 - val_loss: 0.3843 - val_accuracy: 0.8336
Epoch 8/10
704/704 [=====] - 2s 3ms/step - loss: 0.2227 -

```

```
accuracy: 0.9070 - val_loss: 0.3589 - val_accuracy: 0.8428
Epoch 9/10
704/704 [=====] - 2s 3ms/step - loss: 0.1904 -
accuracy: 0.9209 - val_loss: 0.3624 - val_accuracy: 0.8476
Epoch 10/10
704/704 [=====] - 2s 3ms/step - loss: 0.1632 -
accuracy: 0.9339 - val_loss: 0.3785 - val_accuracy: 0.8496
79/79 [=====] - 0s 1ms/step
-----
```

Training Fold 9...

```
Epoch 1/10
704/704 [=====] - 3s 3ms/step - loss: 0.5958 -
accuracy: 0.6664 - val_loss: 0.5234 - val_accuracy: 0.7320
Epoch 2/10
704/704 [=====] - 2s 3ms/step - loss: 0.4603 -
accuracy: 0.7828 - val_loss: 0.4744 - val_accuracy: 0.7748
Epoch 3/10
704/704 [=====] - 2s 3ms/step - loss: 0.3844 -
accuracy: 0.8279 - val_loss: 0.4004 - val_accuracy: 0.8140
Epoch 4/10
704/704 [=====] - 2s 3ms/step - loss: 0.3332 -
accuracy: 0.8548 - val_loss: 0.3681 - val_accuracy: 0.8404
Epoch 5/10
704/704 [=====] - 2s 3ms/step - loss: 0.2895 -
accuracy: 0.8763 - val_loss: 0.3955 - val_accuracy: 0.8288
Epoch 6/10
704/704 [=====] - 2s 3ms/step - loss: 0.2495 -
accuracy: 0.8948 - val_loss: 0.3880 - val_accuracy: 0.8436
Epoch 7/10
704/704 [=====] - 2s 3ms/step - loss: 0.2105 -
accuracy: 0.9135 - val_loss: 0.3692 - val_accuracy: 0.8620
Epoch 8/10
704/704 [=====] - 2s 3ms/step - loss: 0.1820 -
accuracy: 0.9265 - val_loss: 0.4004 - val_accuracy: 0.8512
Epoch 9/10
704/704 [=====] - 2s 3ms/step - loss: 0.1524 -
accuracy: 0.9374 - val_loss: 0.4601 - val_accuracy: 0.8580
Epoch 10/10
704/704 [=====] - 2s 3ms/step - loss: 0.1217 -
accuracy: 0.9509 - val_loss: 0.4630 - val_accuracy: 0.8492
79/79 [=====] - 0s 1ms/step
-----
```

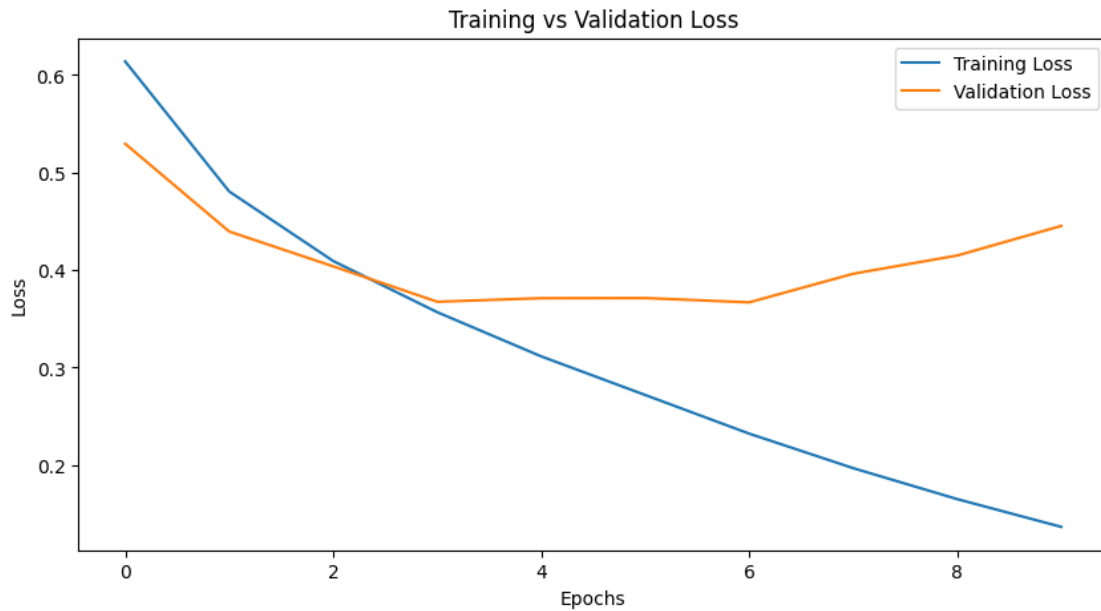
Training Fold 10...

```
Epoch 1/10
704/704 [=====] - 4s 3ms/step - loss: 0.6259 -
accuracy: 0.6397 - val_loss: 0.5499 - val_accuracy: 0.7232
```

Epoch 2/10
704/704 [=====] - 2s 3ms/step - loss: 0.4993 -
accuracy: 0.7574 - val_loss: 0.4393 - val_accuracy: 0.7908
Epoch 3/10
704/704 [=====] - 2s 3ms/step - loss: 0.4269 -
accuracy: 0.8048 - val_loss: 0.3921 - val_accuracy: 0.8328
Epoch 4/10
704/704 [=====] - 2s 3ms/step - loss: 0.3738 -
accuracy: 0.8324 - val_loss: 0.3792 - val_accuracy: 0.8292
Epoch 5/10
704/704 [=====] - 2s 3ms/step - loss: 0.3226 -
accuracy: 0.8602 - val_loss: 0.4434 - val_accuracy: 0.8116
Epoch 6/10
704/704 [=====] - 2s 3ms/step - loss: 0.2893 -
accuracy: 0.8745 - val_loss: 0.3795 - val_accuracy: 0.8488
Epoch 7/10
704/704 [=====] - 2s 3ms/step - loss: 0.2435 -
accuracy: 0.8976 - val_loss: 0.3735 - val_accuracy: 0.8628
Epoch 8/10
704/704 [=====] - 2s 3ms/step - loss: 0.2124 -
accuracy: 0.9118 - val_loss: 0.4612 - val_accuracy: 0.8316
Epoch 9/10
704/704 [=====] - 2s 3ms/step - loss: 0.1753 -
accuracy: 0.9256 - val_loss: 0.3788 - val_accuracy: 0.8584
Epoch 10/10
704/704 [=====] - 2s 3ms/step - loss: 0.1490 -
accuracy: 0.9402 - val_loss: 0.4470 - val_accuracy: 0.8536
79/79 [=====] - 0s 1ms/step

Results

AUC: 0.932 \pm 0.005
Precision: 0.855 \pm 0.022
Recall: 0.855 \pm 0.038
F1-score: 0.854 \pm 0.011



```
[22]: # Entrenar usando el primer modelo CNN
train_cnn_model(create_cnn_model_3)
```

Training Fold 1...

Epoch 1/10

704/704 [=====] - 5s 4ms/step - loss: 0.6393 -
accuracy: 0.6169 - val_loss: 0.5429 - val_accuracy: 0.7152

Epoch 2/10

704/704 [=====] - 2s 3ms/step - loss: 0.4943 -
accuracy: 0.7620 - val_loss: 0.4468 - val_accuracy: 0.7812

Epoch 3/10

704/704 [=====] - 2s 3ms/step - loss: 0.4172 -
accuracy: 0.8104 - val_loss: 0.3885 - val_accuracy: 0.8216

Epoch 4/10

704/704 [=====] - 2s 3ms/step - loss: 0.3524 -
accuracy: 0.8428 - val_loss: 0.3757 - val_accuracy: 0.8344

Epoch 5/10

704/704 [=====] - 2s 3ms/step - loss: 0.3090 -
accuracy: 0.8663 - val_loss: 0.3816 - val_accuracy: 0.8328

Epoch 6/10

704/704 [=====] - 2s 3ms/step - loss: 0.2662 -
accuracy: 0.8857 - val_loss: 0.4133 - val_accuracy: 0.8436

Epoch 7/10

704/704 [=====] - 2s 3ms/step - loss: 0.2224 -
accuracy: 0.9049 - val_loss: 0.3852 - val_accuracy: 0.8452

```
Epoch 8/10
704/704 [=====] - 2s 3ms/step - loss: 0.1847 -
accuracy: 0.9234 - val_loss: 0.4076 - val_accuracy: 0.8496
Epoch 9/10
704/704 [=====] - 2s 3ms/step - loss: 0.1548 -
accuracy: 0.9362 - val_loss: 0.4095 - val_accuracy: 0.8624
Epoch 10/10
704/704 [=====] - 2s 3ms/step - loss: 0.1169 -
accuracy: 0.9539 - val_loss: 0.5199 - val_accuracy: 0.8432
79/79 [=====] - 0s 1ms/step
-----
```

Training Fold 2...

```
Epoch 1/10
704/704 [=====] - 4s 4ms/step - loss: 0.6089 -
accuracy: 0.6548 - val_loss: 0.5048 - val_accuracy: 0.7612
Epoch 2/10
704/704 [=====] - 2s 3ms/step - loss: 0.4769 -
accuracy: 0.7691 - val_loss: 0.4230 - val_accuracy: 0.7968
Epoch 3/10
704/704 [=====] - 2s 3ms/step - loss: 0.3977 -
accuracy: 0.8176 - val_loss: 0.3878 - val_accuracy: 0.8256
Epoch 4/10
704/704 [=====] - 2s 3ms/step - loss: 0.3494 -
accuracy: 0.8439 - val_loss: 0.3389 - val_accuracy: 0.8516
Epoch 5/10
704/704 [=====] - 2s 3ms/step - loss: 0.3004 -
accuracy: 0.8683 - val_loss: 0.3292 - val_accuracy: 0.8528
Epoch 6/10
704/704 [=====] - 2s 3ms/step - loss: 0.2517 -
accuracy: 0.8920 - val_loss: 0.3361 - val_accuracy: 0.8584
Epoch 7/10
704/704 [=====] - 2s 3ms/step - loss: 0.2089 -
accuracy: 0.9110 - val_loss: 0.3502 - val_accuracy: 0.8648
Epoch 8/10
704/704 [=====] - 2s 3ms/step - loss: 0.1747 -
accuracy: 0.9283 - val_loss: 0.3815 - val_accuracy: 0.8576
Epoch 9/10
704/704 [=====] - 2s 3ms/step - loss: 0.1430 -
accuracy: 0.9415 - val_loss: 0.3972 - val_accuracy: 0.8604
Epoch 10/10
704/704 [=====] - 2s 3ms/step - loss: 0.1102 -
accuracy: 0.9564 - val_loss: 0.4618 - val_accuracy: 0.8552
79/79 [=====] - 0s 1ms/step
-----
```

Training Fold 3...

Epoch 1/10

```

704/704 [=====] - 4s 4ms/step - loss: 0.6186 -
accuracy: 0.6471 - val_loss: 0.5199 - val_accuracy: 0.7464
Epoch 2/10
704/704 [=====] - 2s 3ms/step - loss: 0.4770 -
accuracy: 0.7725 - val_loss: 0.4170 - val_accuracy: 0.8044
Epoch 3/10
704/704 [=====] - 2s 3ms/step - loss: 0.4021 -
accuracy: 0.8172 - val_loss: 0.3539 - val_accuracy: 0.8344
Epoch 4/10
704/704 [=====] - 2s 3ms/step - loss: 0.3453 -
accuracy: 0.8477 - val_loss: 0.3353 - val_accuracy: 0.8528
Epoch 5/10
704/704 [=====] - 2s 3ms/step - loss: 0.2983 -
accuracy: 0.8728 - val_loss: 0.3404 - val_accuracy: 0.8456
Epoch 6/10
704/704 [=====] - 2s 3ms/step - loss: 0.2496 -
accuracy: 0.8932 - val_loss: 0.3349 - val_accuracy: 0.8592
Epoch 7/10
704/704 [=====] - 2s 3ms/step - loss: 0.2053 -
accuracy: 0.9151 - val_loss: 0.3629 - val_accuracy: 0.8588
Epoch 8/10
704/704 [=====] - 2s 3ms/step - loss: 0.1692 -
accuracy: 0.9306 - val_loss: 0.3758 - val_accuracy: 0.8572
Epoch 9/10
704/704 [=====] - 2s 3ms/step - loss: 0.1321 -
accuracy: 0.9476 - val_loss: 0.3961 - val_accuracy: 0.8544
Epoch 10/10
704/704 [=====] - 2s 3ms/step - loss: 0.1036 -
accuracy: 0.9604 - val_loss: 0.4704 - val_accuracy: 0.8616
79/79 [=====] - 0s 1ms/step
-----

```

Training Fold 4...

```

Epoch 1/10
704/704 [=====] - 4s 4ms/step - loss: 0.6286 -
accuracy: 0.6370 - val_loss: 0.5359 - val_accuracy: 0.7292
Epoch 2/10
704/704 [=====] - 2s 3ms/step - loss: 0.4836 -
accuracy: 0.7679 - val_loss: 0.4674 - val_accuracy: 0.7732
Epoch 3/10
704/704 [=====] - 2s 3ms/step - loss: 0.4073 -
accuracy: 0.8144 - val_loss: 0.4038 - val_accuracy: 0.8120
Epoch 4/10
704/704 [=====] - 2s 3ms/step - loss: 0.3470 -
accuracy: 0.8478 - val_loss: 0.4142 - val_accuracy: 0.8048
Epoch 5/10
704/704 [=====] - 2s 3ms/step - loss: 0.2990 -
accuracy: 0.8724 - val_loss: 0.3566 - val_accuracy: 0.8344

```

```

Epoch 6/10
704/704 [=====] - 2s 3ms/step - loss: 0.2568 -
accuracy: 0.8918 - val_loss: 0.3588 - val_accuracy: 0.8484
Epoch 7/10
704/704 [=====] - 2s 3ms/step - loss: 0.2061 -
accuracy: 0.9140 - val_loss: 0.3870 - val_accuracy: 0.8508
Epoch 8/10
704/704 [=====] - 2s 3ms/step - loss: 0.1649 -
accuracy: 0.9329 - val_loss: 0.4407 - val_accuracy: 0.8436
Epoch 9/10
704/704 [=====] - 2s 3ms/step - loss: 0.1308 -
accuracy: 0.9479 - val_loss: 0.4886 - val_accuracy: 0.8348
Epoch 10/10
704/704 [=====] - 2s 3ms/step - loss: 0.1063 -
accuracy: 0.9588 - val_loss: 0.5119 - val_accuracy: 0.8284
79/79 [=====] - 0s 1ms/step
-----

```

Training Fold 5...

```

Epoch 1/10
704/704 [=====] - 4s 4ms/step - loss: 0.6820 -
accuracy: 0.5521 - val_loss: 0.6184 - val_accuracy: 0.6612
Epoch 2/10
704/704 [=====] - 2s 3ms/step - loss: 0.5332 -
accuracy: 0.7357 - val_loss: 0.4433 - val_accuracy: 0.7920
Epoch 3/10
704/704 [=====] - 2s 3ms/step - loss: 0.4217 -
accuracy: 0.8051 - val_loss: 0.4587 - val_accuracy: 0.7860
Epoch 4/10
704/704 [=====] - 2s 3ms/step - loss: 0.3596 -
accuracy: 0.8378 - val_loss: 0.3635 - val_accuracy: 0.8344
Epoch 5/10
704/704 [=====] - 2s 3ms/step - loss: 0.3110 -
accuracy: 0.8639 - val_loss: 0.3759 - val_accuracy: 0.8312
Epoch 6/10
704/704 [=====] - 2s 3ms/step - loss: 0.2657 -
accuracy: 0.8883 - val_loss: 0.3308 - val_accuracy: 0.8616
Epoch 7/10
704/704 [=====] - 2s 3ms/step - loss: 0.2234 -
accuracy: 0.9062 - val_loss: 0.3609 - val_accuracy: 0.8572
Epoch 8/10
704/704 [=====] - 2s 3ms/step - loss: 0.1832 -
accuracy: 0.9253 - val_loss: 0.4308 - val_accuracy: 0.8408
Epoch 9/10
704/704 [=====] - 2s 3ms/step - loss: 0.1544 -
accuracy: 0.9368 - val_loss: 0.4468 - val_accuracy: 0.8444
Epoch 10/10
704/704 [=====] - 2s 3ms/step - loss: 0.1166 -

```

accuracy: 0.9536 - val_loss: 0.4439 - val_accuracy: 0.8540
79/79 [=====] - 0s 1ms/step

Training Fold 6...

Epoch 1/10

704/704 [=====] - 4s 4ms/step - loss: 0.6834 -
accuracy: 0.5485 - val_loss: 0.6086 - val_accuracy: 0.6688

Epoch 2/10

704/704 [=====] - 2s 3ms/step - loss: 0.5677 -
accuracy: 0.7048 - val_loss: 0.4560 - val_accuracy: 0.7824

Epoch 3/10

704/704 [=====] - 2s 3ms/step - loss: 0.4542 -
accuracy: 0.7869 - val_loss: 0.4063 - val_accuracy: 0.8148

Epoch 4/10

704/704 [=====] - 2s 3ms/step - loss: 0.3928 -
accuracy: 0.8220 - val_loss: 0.3933 - val_accuracy: 0.8196

Epoch 5/10

704/704 [=====] - 2s 3ms/step - loss: 0.3469 -
accuracy: 0.8458 - val_loss: 0.3226 - val_accuracy: 0.8632

Epoch 6/10

704/704 [=====] - 2s 3ms/step - loss: 0.3016 -
accuracy: 0.8679 - val_loss: 0.3119 - val_accuracy: 0.8752

Epoch 7/10

704/704 [=====] - 2s 3ms/step - loss: 0.2626 -
accuracy: 0.8847 - val_loss: 0.3194 - val_accuracy: 0.8772

Epoch 8/10

704/704 [=====] - 2s 3ms/step - loss: 0.2308 -
accuracy: 0.9013 - val_loss: 0.3285 - val_accuracy: 0.8592

Epoch 9/10

704/704 [=====] - 2s 3ms/step - loss: 0.1950 -
accuracy: 0.9207 - val_loss: 0.4127 - val_accuracy: 0.8540

Epoch 10/10

704/704 [=====] - 2s 3ms/step - loss: 0.1646 -
accuracy: 0.9337 - val_loss: 0.3953 - val_accuracy: 0.8664

79/79 [=====] - 0s 1ms/step

Training Fold 7...

Epoch 1/10

704/704 [=====] - 4s 4ms/step - loss: 0.6100 -
accuracy: 0.6550 - val_loss: 0.5470 - val_accuracy: 0.7184

Epoch 2/10

704/704 [=====] - 2s 3ms/step - loss: 0.4802 -
accuracy: 0.7680 - val_loss: 0.4840 - val_accuracy: 0.7752

Epoch 3/10

704/704 [=====] - 2s 3ms/step - loss: 0.4076 -
accuracy: 0.8160 - val_loss: 0.4063 - val_accuracy: 0.8172

```

Epoch 4/10
704/704 [=====] - 2s 3ms/step - loss: 0.3534 -
accuracy: 0.8440 - val_loss: 0.3857 - val_accuracy: 0.8276
Epoch 5/10
704/704 [=====] - 2s 3ms/step - loss: 0.3115 -
accuracy: 0.8626 - val_loss: 0.3933 - val_accuracy: 0.8268
Epoch 6/10
704/704 [=====] - 2s 3ms/step - loss: 0.2704 -
accuracy: 0.8824 - val_loss: 0.3444 - val_accuracy: 0.8576
Epoch 7/10
704/704 [=====] - 2s 3ms/step - loss: 0.2295 -
accuracy: 0.9040 - val_loss: 0.3739 - val_accuracy: 0.8372
Epoch 8/10
704/704 [=====] - 2s 3ms/step - loss: 0.1943 -
accuracy: 0.9192 - val_loss: 0.3926 - val_accuracy: 0.8484
Epoch 9/10
704/704 [=====] - 2s 3ms/step - loss: 0.1577 -
accuracy: 0.9351 - val_loss: 0.3793 - val_accuracy: 0.8528
Epoch 10/10
704/704 [=====] - 2s 3ms/step - loss: 0.1384 -
accuracy: 0.9445 - val_loss: 0.4602 - val_accuracy: 0.8496
79/79 [=====] - 0s 1ms/step
-----

```

Training Fold 8...

```

Epoch 1/10
704/704 [=====] - 4s 4ms/step - loss: 0.6092 -
accuracy: 0.6571 - val_loss: 0.4932 - val_accuracy: 0.7616
Epoch 2/10
704/704 [=====] - 2s 3ms/step - loss: 0.4732 -
accuracy: 0.7760 - val_loss: 0.4777 - val_accuracy: 0.7676
Epoch 3/10
704/704 [=====] - 2s 3ms/step - loss: 0.3980 -
accuracy: 0.8220 - val_loss: 0.3979 - val_accuracy: 0.8088
Epoch 4/10
704/704 [=====] - 2s 3ms/step - loss: 0.3450 -
accuracy: 0.8470 - val_loss: 0.3801 - val_accuracy: 0.8276
Epoch 5/10
704/704 [=====] - 2s 3ms/step - loss: 0.2999 -
accuracy: 0.8701 - val_loss: 0.3835 - val_accuracy: 0.8368
Epoch 6/10
704/704 [=====] - 2s 3ms/step - loss: 0.2540 -
accuracy: 0.8926 - val_loss: 0.3759 - val_accuracy: 0.8344
Epoch 7/10
704/704 [=====] - 2s 3ms/step - loss: 0.2133 -
accuracy: 0.9110 - val_loss: 0.3731 - val_accuracy: 0.8508
Epoch 8/10
704/704 [=====] - 2s 3ms/step - loss: 0.1756 -

```

```

accuracy: 0.9279 - val_loss: 0.3878 - val_accuracy: 0.8600
Epoch 9/10
704/704 [=====] - 2s 3ms/step - loss: 0.1419 -
accuracy: 0.9432 - val_loss: 0.4307 - val_accuracy: 0.8540
Epoch 10/10
704/704 [=====] - 2s 3ms/step - loss: 0.1173 -
accuracy: 0.9535 - val_loss: 0.4468 - val_accuracy: 0.8492
79/79 [=====] - 0s 1ms/step
-----

```

Training Fold 9...

```

Epoch 1/10
704/704 [=====] - 4s 4ms/step - loss: 0.6229 -
accuracy: 0.6405 - val_loss: 0.5753 - val_accuracy: 0.7176
Epoch 2/10
704/704 [=====] - 2s 3ms/step - loss: 0.4902 -
accuracy: 0.7634 - val_loss: 0.4713 - val_accuracy: 0.7804
Epoch 3/10
704/704 [=====] - 2s 3ms/step - loss: 0.4196 -
accuracy: 0.8094 - val_loss: 0.4312 - val_accuracy: 0.7980
Epoch 4/10
704/704 [=====] - 2s 3ms/step - loss: 0.3613 -
accuracy: 0.8412 - val_loss: 0.4002 - val_accuracy: 0.8232
Epoch 5/10
704/704 [=====] - 2s 3ms/step - loss: 0.3087 -
accuracy: 0.8660 - val_loss: 0.4414 - val_accuracy: 0.8160
Epoch 6/10
704/704 [=====] - 2s 3ms/step - loss: 0.2677 -
accuracy: 0.8853 - val_loss: 0.3548 - val_accuracy: 0.8556
Epoch 7/10
704/704 [=====] - 2s 3ms/step - loss: 0.2314 -
accuracy: 0.9035 - val_loss: 0.3761 - val_accuracy: 0.8512
Epoch 8/10
704/704 [=====] - 2s 3ms/step - loss: 0.1928 -
accuracy: 0.9220 - val_loss: 0.4007 - val_accuracy: 0.8496
Epoch 9/10
704/704 [=====] - 2s 3ms/step - loss: 0.1600 -
accuracy: 0.9349 - val_loss: 0.3725 - val_accuracy: 0.8640
Epoch 10/10
704/704 [=====] - 2s 3ms/step - loss: 0.1330 -
accuracy: 0.9476 - val_loss: 0.4274 - val_accuracy: 0.8600
79/79 [=====] - 0s 1ms/step
-----

```

Training Fold 10...

```

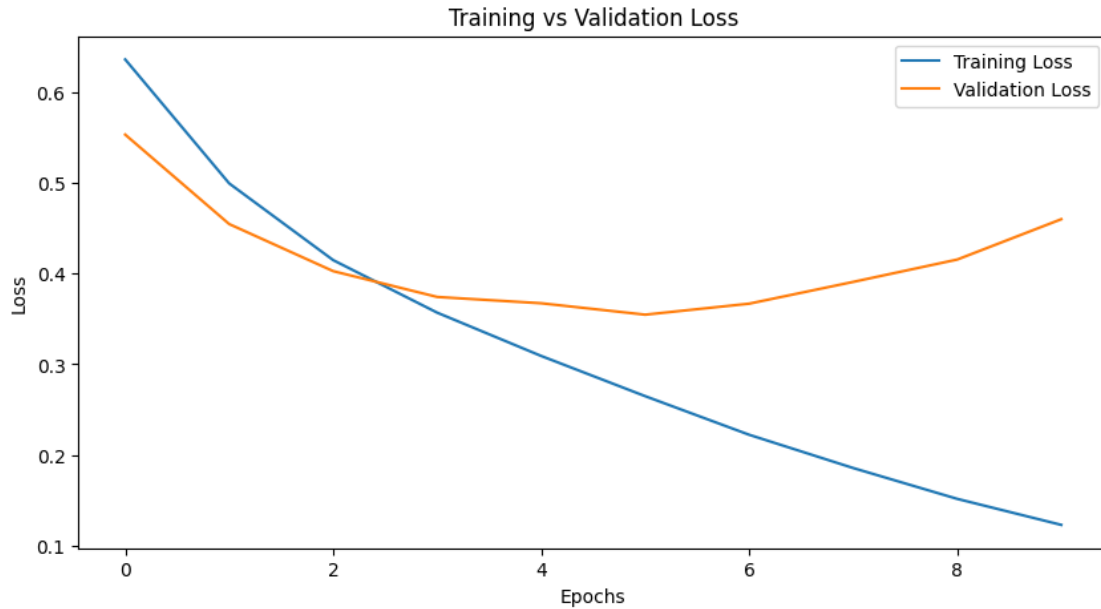
Epoch 1/10
704/704 [=====] - 4s 4ms/step - loss: 0.6554 -
accuracy: 0.6064 - val_loss: 0.5840 - val_accuracy: 0.6836

```

Epoch 2/10
704/704 [=====] - 2s 3ms/step - loss: 0.5160 -
accuracy: 0.7479 - val_loss: 0.4579 - val_accuracy: 0.7836
Epoch 3/10
704/704 [=====] - 2s 3ms/step - loss: 0.4215 -
accuracy: 0.8047 - val_loss: 0.3912 - val_accuracy: 0.8296
Epoch 4/10
704/704 [=====] - 2s 3ms/step - loss: 0.3617 -
accuracy: 0.8359 - val_loss: 0.3544 - val_accuracy: 0.8372
Epoch 5/10
704/704 [=====] - 2s 3ms/step - loss: 0.3063 -
accuracy: 0.8655 - val_loss: 0.3473 - val_accuracy: 0.8580
Epoch 6/10
704/704 [=====] - 2s 3ms/step - loss: 0.2643 -
accuracy: 0.8870 - val_loss: 0.3852 - val_accuracy: 0.8368
Epoch 7/10
704/704 [=====] - 2s 3ms/step - loss: 0.2195 -
accuracy: 0.9092 - val_loss: 0.3786 - val_accuracy: 0.8564
Epoch 8/10
704/704 [=====] - 2s 3ms/step - loss: 0.1860 -
accuracy: 0.9234 - val_loss: 0.3614 - val_accuracy: 0.8556
Epoch 9/10
704/704 [=====] - 2s 3ms/step - loss: 0.1468 -
accuracy: 0.9424 - val_loss: 0.4202 - val_accuracy: 0.8624
Epoch 10/10
704/704 [=====] - 2s 3ms/step - loss: 0.1231 -
accuracy: 0.9507 - val_loss: 0.4602 - val_accuracy: 0.8716
79/79 [=====] - 0s 1ms/step

Results

AUC: 0.933 \pm 0.007
Precision: 0.852 \pm 0.028
Recall: 0.859 \pm 0.048
F1-score: 0.854 \pm 0.016



2.0.6 Incluyendo Callbacks y Data Augmentation

```
[26]: import tensorflow as tf
from tensorflow.keras.models import Sequential
from tensorflow.keras.layers import Conv2D, MaxPooling2D, Flatten, Dense,
↳ Dropout, BatchNormalization, Input
from tensorflow.keras.regularizers import l2
from tensorflow.keras.callbacks import ReduceLROnPlateau
from tensorflow.keras.preprocessing.image import ImageDataGenerator
from tensorflow.keras.utils import to_categorical
from sklearn.model_selection import StratifiedKFold
from sklearn.metrics import roc_auc_score, precision_score, recall_score,
↳ f1_score
import matplotlib.pyplot as plt
import numpy as np
import os

# Crear las etiquetas (1 para perro, 0 para gato)
y = np.array([1 if 'dog' in img else 0 for img in os.listdir(train_folder)])

# Crear un generador de datos con data augmentation
datagen = ImageDataGenerator(
    rotation_range=20,
    width_shift_range=0.2,
    height_shift_range=0.2,
    zoom_range=0.2,
```

```

        horizontal_flip=True
    )

    # Callback para reducir el learning rate cuando la métrica no mejora
    lr_scheduler = ReduceLROnPlateau(monitor='val_loss', factor=0.5, patience=3,
    ↪min_lr=1e-5)

    # Arquitectura 1: Modelo básico ajustado para 3 canales (RGB) usando Input
    def create_cnn_model_1():
        model = Sequential([
            Input(shape=(64, 64, 3)), # Definir la entrada explícitamente con Input
            Conv2D(32, (3, 3), activation='relu', kernel_regularizer=l2(0.001)),
            BatchNormalization(),
            MaxPooling2D(pool_size=(2, 2)),
            Conv2D(64, (3, 3), activation='relu', kernel_regularizer=l2(0.001)),
            BatchNormalization(),
            MaxPooling2D(pool_size=(2, 2)),
            Flatten(),
            Dense(128, activation='relu', kernel_regularizer=l2(0.001)),
            Dense(2, activation='softmax')
        ])
        return model

    # Arquitectura 2: Modelo con más capas ajustado para 3 canales (RGB) usando
    ↪Input
    def create_cnn_model_2():
        model = Sequential([
            Input(shape=(64, 64, 3)), # Definir la entrada explícitamente con Input
            Conv2D(32, (3, 3), activation='relu', kernel_regularizer=l2(0.001)),
            BatchNormalization(),
            MaxPooling2D(pool_size=(2, 2)),
            Conv2D(64, (3, 3), activation='relu', kernel_regularizer=l2(0.001)),
            BatchNormalization(),
            MaxPooling2D(pool_size=(2, 2)),
            Conv2D(128, (3, 3), activation='relu', kernel_regularizer=l2(0.001)),
            BatchNormalization(),
            MaxPooling2D(pool_size=(2, 2)),
            Flatten(),
            Dense(256, activation='relu', kernel_regularizer=l2(0.001)),
            Dropout(0.5),
            Dense(2, activation='softmax')
        ])
        return model

    # Arquitectura 3: Más densa con Dropout ajustado para 3 canales (RGB) usando
    ↪Input
    def create_cnn_model_3():

```

```

model = Sequential([
    Input(shape=(64, 64, 3)), # Definir la entrada explícitamente con Input
    Conv2D(64, (3, 3), activation='relu', kernel_regularizer=l2(0.001)),
    BatchNormalization(),
    MaxPooling2D(pool_size=(2, 2)),
    Conv2D(128, (3, 3), activation='relu', kernel_regularizer=l2(0.001)),
    BatchNormalization(),
    MaxPooling2D(pool_size=(2, 2)),
    Conv2D(256, (3, 3), activation='relu', kernel_regularizer=l2(0.001)),
    BatchNormalization(),
    MaxPooling2D(pool_size=(2, 2)),
    Flatten(),
    Dense(512, activation='relu', kernel_regularizer=l2(0.001)),
    Dropout(0.6), # Aumentado el dropout para mayor regularización
    Dense(2, activation='softmax')
])
return model

# Convertir etiquetas a one-hot encoding para CNN
y_categorical = to_categorical(y, num_classes=2)

# Definir StratifiedKfold
skf = StratifiedKfold(n_splits=10)

# Función para entrenar y mostrar métricas
def train_cnn_model(model_fn):
    fold = 0
    training_losses = []
    validation_losses = []

    # Listas para almacenar las métricas de cada fold
    auc_scores = []
    precision_scores = []
    recall_scores = []
    f1_scores = []

    for train_index, test_index in skf.split(train_cnn, y):
        fold += 1
        print(f"Training Fold {fold}...")

        X_train, X_test = train_cnn[train_index], train_cnn[test_index]
        y_train, y_test = y_categorical[train_index], y_categorical[test_index]

        # Crear el modelo
        model = model_fn()
        model.compile(optimizer='adam', loss='categorical_crossentropy',
metrics=['accuracy'])

```

```

# Aplicar data augmentation solo al conjunto de entrenamiento
datagen.fit(X_train)
history = model.fit(datagen.flow(X_train, y_train, batch_size=32),
                    validation_data=(X_test, y_test), epochs=10,
↳callbacks=[lr_scheduler])

# Guardar pérdidas
training_losses.append(history.history['loss'])
validation_losses.append(history.history['val_loss'])

# Hacer predicciones para las métricas
y_pred = model.predict(X_test)
y_pred_class = y_pred.argmax(axis=1)
y_true = y_test.argmax(axis=1)

# Calcular las métricas
auc = roc_auc_score(y_true, y_pred[:, 1])
precision = precision_score(y_true, y_pred_class)
recall = recall_score(y_true, y_pred_class)
f1 = f1_score(y_true, y_pred_class)

# Guardar métricas
auc_scores.append(auc)
precision_scores.append(precision)
recall_scores.append(recall)
f1_scores.append(f1)

# Mostrar los resultados promedio y desviación estándar
print(f"\nResults")
print(f"AUC: {np.mean(auc_scores):.3f} ± {np.std(auc_scores):.3f}")
print(f"Precision: {np.mean(precision_scores):.3f} ± {np.
↳std(precision_scores):.3f}")
print(f"Recall: {np.mean(recall_scores):.3f} ± {np.std(recall_scores):.3f}")
print(f"F1-score: {np.mean(f1_scores):.3f} ± {np.std(f1_scores):.3f}")

# Graficar las pérdidas (loss) de entrenamiento y validación
plt.figure(figsize=(10, 5))
plt.plot(np.mean(training_losses, axis=0), label="Training Loss")
plt.plot(np.mean(validation_losses, axis=0), label="Validation Loss")
plt.title("Training vs Validation Loss")
plt.xlabel("Epochs")
plt.ylabel("Loss")
plt.legend()
plt.show()

return model

```

```
[27]: # Entrenar usando el primer modelo CNN con data augmentation
      trained_model1 = train_cnn_model(create_cnn_model_1)
```

Training Fold 1...

Epoch 1/10

704/704 [=====] - 19s 25ms/step - loss: 0.8899 -
accuracy: 0.6391 - val_loss: 0.7703 - val_accuracy: 0.6520 - lr: 0.0010

Epoch 2/10

704/704 [=====] - 18s 25ms/step - loss: 0.7235 -
accuracy: 0.6863 - val_loss: 0.6814 - val_accuracy: 0.7036 - lr: 0.0010

Epoch 3/10

704/704 [=====] - 17s 24ms/step - loss: 0.6571 -
accuracy: 0.7164 - val_loss: 0.6038 - val_accuracy: 0.7652 - lr: 0.0010

Epoch 4/10

704/704 [=====] - 17s 24ms/step - loss: 0.6154 -
accuracy: 0.7366 - val_loss: 0.6081 - val_accuracy: 0.7416 - lr: 0.0010

Epoch 5/10

704/704 [=====] - 17s 24ms/step - loss: 0.5988 -
accuracy: 0.7491 - val_loss: 0.5696 - val_accuracy: 0.7708 - lr: 0.0010

Epoch 6/10

704/704 [=====] - 17s 24ms/step - loss: 0.5809 -
accuracy: 0.7643 - val_loss: 0.6181 - val_accuracy: 0.7504 - lr: 0.0010

Epoch 7/10

704/704 [=====] - 17s 24ms/step - loss: 0.5667 -
accuracy: 0.7677 - val_loss: 0.8265 - val_accuracy: 0.6436 - lr: 0.0010

Epoch 8/10

704/704 [=====] - 17s 24ms/step - loss: 0.5410 -
accuracy: 0.7774 - val_loss: 0.5484 - val_accuracy: 0.7680 - lr: 0.0010

Epoch 9/10

704/704 [=====] - 17s 24ms/step - loss: 0.5313 -
accuracy: 0.7811 - val_loss: 0.5945 - val_accuracy: 0.7532 - lr: 0.0010

Epoch 10/10

704/704 [=====] - 17s 24ms/step - loss: 0.5307 -
accuracy: 0.7806 - val_loss: 0.7448 - val_accuracy: 0.6896 - lr: 0.0010

79/79 [=====] - 0s 1ms/step

Training Fold 2...

Epoch 1/10

704/704 [=====] - 19s 25ms/step - loss: 0.9202 -
accuracy: 0.6264 - val_loss: 0.7309 - val_accuracy: 0.6884 - lr: 0.0010

Epoch 2/10

704/704 [=====] - 17s 24ms/step - loss: 0.7160 -
accuracy: 0.6866 - val_loss: 0.6292 - val_accuracy: 0.7516 - lr: 0.0010

Epoch 3/10

704/704 [=====] - 17s 24ms/step - loss: 0.6578 -
accuracy: 0.7171 - val_loss: 0.7135 - val_accuracy: 0.7056 - lr: 0.0010

Epoch 4/10

704/704 [=====] - 17s 24ms/step - loss: 0.6497 -

```

accuracy: 0.7390 - val_loss: 0.8854 - val_accuracy: 0.6672 - lr: 0.0010
Epoch 5/10
704/704 [=====] - 17s 24ms/step - loss: 0.6172 -
accuracy: 0.7475 - val_loss: 1.2831 - val_accuracy: 0.6172 - lr: 0.0010
Epoch 6/10
704/704 [=====] - 17s 24ms/step - loss: 0.5435 -
accuracy: 0.7772 - val_loss: 0.5080 - val_accuracy: 0.8004 - lr: 5.0000e-04
Epoch 7/10
704/704 [=====] - 17s 24ms/step - loss: 0.5164 -
accuracy: 0.7868 - val_loss: 0.4874 - val_accuracy: 0.8076 - lr: 5.0000e-04
Epoch 8/10
704/704 [=====] - 17s 24ms/step - loss: 0.5050 -
accuracy: 0.7927 - val_loss: 0.5407 - val_accuracy: 0.7804 - lr: 5.0000e-04
Epoch 9/10
704/704 [=====] - 17s 24ms/step - loss: 0.4985 -
accuracy: 0.7982 - val_loss: 0.4985 - val_accuracy: 0.8032 - lr: 5.0000e-04
Epoch 10/10
704/704 [=====] - 17s 24ms/step - loss: 0.4891 -
accuracy: 0.7987 - val_loss: 0.4771 - val_accuracy: 0.8140 - lr: 5.0000e-04
79/79 [=====] - 0s 1ms/step
Training Fold 3...
Epoch 1/10
704/704 [=====] - 19s 25ms/step - loss: 0.9434 -
accuracy: 0.6444 - val_loss: 0.8062 - val_accuracy: 0.5988 - lr: 0.0010
Epoch 2/10
704/704 [=====] - 18s 25ms/step - loss: 0.7154 -
accuracy: 0.6872 - val_loss: 0.7568 - val_accuracy: 0.6504 - lr: 0.0010
Epoch 3/10
704/704 [=====] - 17s 24ms/step - loss: 0.6680 -
accuracy: 0.7148 - val_loss: 0.7079 - val_accuracy: 0.6876 - lr: 0.0010
Epoch 4/10
704/704 [=====] - 17s 24ms/step - loss: 0.6302 -
accuracy: 0.7426 - val_loss: 0.5538 - val_accuracy: 0.7816 - lr: 0.0010
Epoch 5/10
704/704 [=====] - 17s 24ms/step - loss: 0.6352 -
accuracy: 0.7474 - val_loss: 0.5754 - val_accuracy: 0.7704 - lr: 0.0010
Epoch 6/10
704/704 [=====] - 17s 24ms/step - loss: 0.5980 -
accuracy: 0.7588 - val_loss: 0.5942 - val_accuracy: 0.7600 - lr: 0.0010
Epoch 7/10
704/704 [=====] - 17s 24ms/step - loss: 0.5814 -
accuracy: 0.7660 - val_loss: 0.6281 - val_accuracy: 0.7492 - lr: 0.0010
Epoch 8/10
704/704 [=====] - 17s 24ms/step - loss: 0.5318 -
accuracy: 0.7872 - val_loss: 0.6510 - val_accuracy: 0.7360 - lr: 5.0000e-04
Epoch 9/10
704/704 [=====] - 17s 24ms/step - loss: 0.5066 -
accuracy: 0.8000 - val_loss: 0.5160 - val_accuracy: 0.7876 - lr: 5.0000e-04

```

Epoch 10/10
704/704 [=====] - 17s 24ms/step - loss: 0.4963 - accuracy: 0.7981 - val_loss: 0.4162 - val_accuracy: 0.8460 - lr: 5.0000e-04
79/79 [=====] - 0s 1ms/step
Training Fold 4...
Epoch 1/10
704/704 [=====] - 19s 25ms/step - loss: 0.8976 - accuracy: 0.6352 - val_loss: 0.7727 - val_accuracy: 0.6636 - lr: 0.0010
Epoch 2/10
704/704 [=====] - 17s 24ms/step - loss: 0.7176 - accuracy: 0.6856 - val_loss: 0.7228 - val_accuracy: 0.6396 - lr: 0.0010
Epoch 3/10
704/704 [=====] - 17s 24ms/step - loss: 0.6674 - accuracy: 0.7142 - val_loss: 0.6963 - val_accuracy: 0.6828 - lr: 0.0010
Epoch 4/10
704/704 [=====] - 17s 24ms/step - loss: 0.6122 - accuracy: 0.7380 - val_loss: 0.6514 - val_accuracy: 0.7080 - lr: 0.0010
Epoch 5/10
704/704 [=====] - 17s 24ms/step - loss: 0.5898 - accuracy: 0.7537 - val_loss: 0.5667 - val_accuracy: 0.7652 - lr: 0.0010
Epoch 6/10
704/704 [=====] - 17s 24ms/step - loss: 0.5688 - accuracy: 0.7666 - val_loss: 0.6254 - val_accuracy: 0.7220 - lr: 0.0010
Epoch 7/10
704/704 [=====] - 17s 24ms/step - loss: 0.5620 - accuracy: 0.7651 - val_loss: 0.9078 - val_accuracy: 0.6256 - lr: 0.0010
Epoch 8/10
704/704 [=====] - 17s 24ms/step - loss: 0.5470 - accuracy: 0.7765 - val_loss: 0.5321 - val_accuracy: 0.7908 - lr: 0.0010
Epoch 9/10
704/704 [=====] - 17s 24ms/step - loss: 0.5322 - accuracy: 0.7826 - val_loss: 0.6266 - val_accuracy: 0.7232 - lr: 0.0010
Epoch 10/10
704/704 [=====] - 17s 24ms/step - loss: 0.5305 - accuracy: 0.7817 - val_loss: 0.6572 - val_accuracy: 0.6972 - lr: 0.0010
79/79 [=====] - 0s 1ms/step
Training Fold 5...
Epoch 1/10
704/704 [=====] - 19s 25ms/step - loss: 0.9287 - accuracy: 0.6353 - val_loss: 0.8355 - val_accuracy: 0.6052 - lr: 0.0010
Epoch 2/10
704/704 [=====] - 18s 25ms/step - loss: 0.7460 - accuracy: 0.6820 - val_loss: 0.9044 - val_accuracy: 0.6184 - lr: 0.0010
Epoch 3/10
704/704 [=====] - 17s 24ms/step - loss: 0.6626 - accuracy: 0.7196 - val_loss: 1.2285 - val_accuracy: 0.5488 - lr: 0.0010
Epoch 4/10
704/704 [=====] - 17s 24ms/step - loss: 0.6721 -

```

accuracy: 0.7393 - val_loss: 0.7653 - val_accuracy: 0.7304 - lr: 0.0010
Epoch 5/10
704/704 [=====] - 17s 24ms/step - loss: 0.6378 -
accuracy: 0.7503 - val_loss: 0.5715 - val_accuracy: 0.7876 - lr: 0.0010
Epoch 6/10
704/704 [=====] - 17s 24ms/step - loss: 0.6084 -
accuracy: 0.7536 - val_loss: 0.9329 - val_accuracy: 0.6524 - lr: 0.0010
Epoch 7/10
704/704 [=====] - 17s 24ms/step - loss: 0.5758 -
accuracy: 0.7650 - val_loss: 0.7303 - val_accuracy: 0.7220 - lr: 0.0010
Epoch 8/10
704/704 [=====] - 17s 24ms/step - loss: 0.5598 -
accuracy: 0.7735 - val_loss: 0.8802 - val_accuracy: 0.6412 - lr: 0.0010
Epoch 9/10
704/704 [=====] - 17s 24ms/step - loss: 0.5195 -
accuracy: 0.7937 - val_loss: 0.5095 - val_accuracy: 0.8108 - lr: 5.0000e-04
Epoch 10/10
704/704 [=====] - 17s 24ms/step - loss: 0.4975 -
accuracy: 0.8038 - val_loss: 0.5636 - val_accuracy: 0.7824 - lr: 5.0000e-04
79/79 [=====] - 0s 1ms/step
Training Fold 6...
Epoch 1/10
704/704 [=====] - 19s 25ms/step - loss: 0.9177 -
accuracy: 0.6327 - val_loss: 0.7389 - val_accuracy: 0.6964 - lr: 0.0010
Epoch 2/10
704/704 [=====] - 17s 24ms/step - loss: 0.7220 -
accuracy: 0.6920 - val_loss: 0.6931 - val_accuracy: 0.7124 - lr: 0.0010
Epoch 3/10
704/704 [=====] - 17s 24ms/step - loss: 0.6778 -
accuracy: 0.7175 - val_loss: 0.6369 - val_accuracy: 0.7560 - lr: 0.0010
Epoch 4/10
704/704 [=====] - 17s 24ms/step - loss: 0.6188 -
accuracy: 0.7407 - val_loss: 0.7674 - val_accuracy: 0.6684 - lr: 0.0010
Epoch 5/10
704/704 [=====] - 17s 24ms/step - loss: 0.6161 -
accuracy: 0.7484 - val_loss: 0.5526 - val_accuracy: 0.7876 - lr: 0.0010
Epoch 6/10
704/704 [=====] - 17s 24ms/step - loss: 0.5875 -
accuracy: 0.7600 - val_loss: 0.6433 - val_accuracy: 0.6864 - lr: 0.0010
Epoch 7/10
704/704 [=====] - 17s 24ms/step - loss: 0.5803 -
accuracy: 0.7637 - val_loss: 0.5206 - val_accuracy: 0.8052 - lr: 0.0010
Epoch 8/10
704/704 [=====] - 17s 24ms/step - loss: 0.5660 -
accuracy: 0.7740 - val_loss: 0.5273 - val_accuracy: 0.8048 - lr: 0.0010
Epoch 9/10
704/704 [=====] - 17s 24ms/step - loss: 0.5481 -
accuracy: 0.7802 - val_loss: 0.5989 - val_accuracy: 0.7772 - lr: 0.0010

```


Epoch 10/10
704/704 [=====] - 17s 24ms/step - loss: 0.5368 - accuracy: 0.7837 - val_loss: 0.7998 - val_accuracy: 0.7188 - lr: 0.0010
79/79 [=====] - 0s 1ms/step
Training Fold 7...
Epoch 1/10
704/704 [=====] - 19s 25ms/step - loss: 0.8573 - accuracy: 0.6570 - val_loss: 0.7280 - val_accuracy: 0.6620 - lr: 0.0010
Epoch 2/10
704/704 [=====] - 17s 24ms/step - loss: 0.7013 - accuracy: 0.6959 - val_loss: 0.9523 - val_accuracy: 0.6172 - lr: 0.0010
Epoch 3/10
704/704 [=====] - 17s 24ms/step - loss: 0.6662 - accuracy: 0.7136 - val_loss: 0.6365 - val_accuracy: 0.7468 - lr: 0.0010
Epoch 4/10
704/704 [=====] - 17s 24ms/step - loss: 0.6250 - accuracy: 0.7393 - val_loss: 0.5814 - val_accuracy: 0.7524 - lr: 0.0010
Epoch 5/10
704/704 [=====] - 17s 24ms/step - loss: 0.5748 - accuracy: 0.7498 - val_loss: 0.7889 - val_accuracy: 0.6220 - lr: 0.0010
Epoch 6/10
704/704 [=====] - 17s 24ms/step - loss: 0.5821 - accuracy: 0.7572 - val_loss: 0.5254 - val_accuracy: 0.7840 - lr: 0.0010
Epoch 7/10
704/704 [=====] - 17s 24ms/step - loss: 0.5541 - accuracy: 0.7664 - val_loss: 0.5669 - val_accuracy: 0.7308 - lr: 0.0010
Epoch 8/10
704/704 [=====] - 17s 24ms/step - loss: 0.5432 - accuracy: 0.7669 - val_loss: 0.5280 - val_accuracy: 0.7772 - lr: 0.0010
Epoch 9/10
704/704 [=====] - 17s 24ms/step - loss: 0.5300 - accuracy: 0.7723 - val_loss: 0.8662 - val_accuracy: 0.6336 - lr: 0.0010
Epoch 10/10
704/704 [=====] - 17s 24ms/step - loss: 0.4988 - accuracy: 0.7926 - val_loss: 0.5370 - val_accuracy: 0.7580 - lr: 5.0000e-04
79/79 [=====] - 0s 1ms/step
Training Fold 8...
Epoch 1/10
704/704 [=====] - 19s 25ms/step - loss: 0.8917 - accuracy: 0.6332 - val_loss: 0.7204 - val_accuracy: 0.6540 - lr: 0.0010
Epoch 2/10
704/704 [=====] - 17s 24ms/step - loss: 0.7199 - accuracy: 0.6843 - val_loss: 0.7215 - val_accuracy: 0.6448 - lr: 0.0010
Epoch 3/10
704/704 [=====] - 17s 24ms/step - loss: 0.6541 - accuracy: 0.7149 - val_loss: 0.9945 - val_accuracy: 0.6100 - lr: 0.0010
Epoch 4/10
704/704 [=====] - 17s 24ms/step - loss: 0.6200 -

```

accuracy: 0.7441 - val_loss: 0.6075 - val_accuracy: 0.7468 - lr: 0.0010
Epoch 5/10
704/704 [=====] - 17s 24ms/step - loss: 0.6129 -
accuracy: 0.7574 - val_loss: 0.7111 - val_accuracy: 0.6920 - lr: 0.0010
Epoch 6/10
704/704 [=====] - 17s 24ms/step - loss: 0.5780 -
accuracy: 0.7680 - val_loss: 0.5339 - val_accuracy: 0.7980 - lr: 0.0010
Epoch 7/10
704/704 [=====] - 17s 24ms/step - loss: 0.5627 -
accuracy: 0.7732 - val_loss: 0.5543 - val_accuracy: 0.7708 - lr: 0.0010
Epoch 8/10
704/704 [=====] - 17s 24ms/step - loss: 0.5495 -
accuracy: 0.7785 - val_loss: 0.5052 - val_accuracy: 0.8108 - lr: 0.0010
Epoch 9/10
704/704 [=====] - 17s 24ms/step - loss: 0.5406 -
accuracy: 0.7832 - val_loss: 0.4952 - val_accuracy: 0.8108 - lr: 0.0010
Epoch 10/10
704/704 [=====] - 17s 24ms/step - loss: 0.5344 -
accuracy: 0.7867 - val_loss: 0.4907 - val_accuracy: 0.8140 - lr: 0.0010
79/79 [=====] - 0s 1ms/step
Training Fold 9...
Epoch 1/10
704/704 [=====] - 20s 25ms/step - loss: 0.8750 -
accuracy: 0.6384 - val_loss: 0.7260 - val_accuracy: 0.6740 - lr: 0.0010
Epoch 2/10
704/704 [=====] - 17s 24ms/step - loss: 0.7115 -
accuracy: 0.6931 - val_loss: 0.8728 - val_accuracy: 0.6108 - lr: 0.0010
Epoch 3/10
704/704 [=====] - 17s 24ms/step - loss: 0.6498 -
accuracy: 0.7260 - val_loss: 0.6886 - val_accuracy: 0.7084 - lr: 0.0010
Epoch 4/10
704/704 [=====] - 17s 24ms/step - loss: 0.6235 -
accuracy: 0.7402 - val_loss: 0.7237 - val_accuracy: 0.7056 - lr: 0.0010
Epoch 5/10
704/704 [=====] - 17s 24ms/step - loss: 0.5967 -
accuracy: 0.7559 - val_loss: 0.7818 - val_accuracy: 0.6728 - lr: 0.0010
Epoch 6/10
704/704 [=====] - 17s 24ms/step - loss: 0.5824 -
accuracy: 0.7618 - val_loss: 0.5577 - val_accuracy: 0.7728 - lr: 0.0010
Epoch 7/10
704/704 [=====] - 17s 24ms/step - loss: 0.5608 -
accuracy: 0.7669 - val_loss: 0.5498 - val_accuracy: 0.7800 - lr: 0.0010
Epoch 8/10
704/704 [=====] - 17s 24ms/step - loss: 0.5461 -
accuracy: 0.7743 - val_loss: 0.6041 - val_accuracy: 0.7544 - lr: 0.0010
Epoch 9/10
704/704 [=====] - 17s 24ms/step - loss: 0.5395 -
accuracy: 0.7748 - val_loss: 0.8996 - val_accuracy: 0.6460 - lr: 0.0010

```

Epoch 10/10
704/704 [=====] - 17s 24ms/step - loss: 0.5281 -
accuracy: 0.7842 - val_loss: 0.6097 - val_accuracy: 0.7396 - lr: 0.0010
79/79 [=====] - 0s 1ms/step
Training Fold 10...
Epoch 1/10
704/704 [=====] - 19s 25ms/step - loss: 0.9303 -
accuracy: 0.6293 - val_loss: 0.7546 - val_accuracy: 0.6844 - lr: 0.0010
Epoch 2/10
704/704 [=====] - 17s 24ms/step - loss: 0.7396 -
accuracy: 0.6778 - val_loss: 0.6494 - val_accuracy: 0.7444 - lr: 0.0010
Epoch 3/10
704/704 [=====] - 17s 25ms/step - loss: 0.6664 -
accuracy: 0.7156 - val_loss: 0.7106 - val_accuracy: 0.6800 - lr: 0.0010
Epoch 4/10
704/704 [=====] - 17s 24ms/step - loss: 0.6377 -
accuracy: 0.7368 - val_loss: 0.6106 - val_accuracy: 0.7720 - lr: 0.0010
Epoch 5/10
704/704 [=====] - 17s 25ms/step - loss: 0.6047 -
accuracy: 0.7452 - val_loss: 0.5321 - val_accuracy: 0.7956 - lr: 0.0010
Epoch 6/10
704/704 [=====] - 17s 24ms/step - loss: 0.5905 -
accuracy: 0.7600 - val_loss: 1.0074 - val_accuracy: 0.6340 - lr: 0.0010
Epoch 7/10
704/704 [=====] - 17s 24ms/step - loss: 0.5740 -
accuracy: 0.7624 - val_loss: 0.6847 - val_accuracy: 0.7008 - lr: 0.0010
Epoch 8/10
704/704 [=====] - 17s 24ms/step - loss: 0.5537 -
accuracy: 0.7718 - val_loss: 0.5240 - val_accuracy: 0.7908 - lr: 0.0010
Epoch 9/10
704/704 [=====] - 17s 24ms/step - loss: 0.5350 -
accuracy: 0.7770 - val_loss: 0.7534 - val_accuracy: 0.7136 - lr: 0.0010
Epoch 10/10
704/704 [=====] - 18s 25ms/step - loss: 0.5296 -
accuracy: 0.7816 - val_loss: 0.5340 - val_accuracy: 0.7732 - lr: 0.0010
79/79 [=====] - 0s 1ms/step

Results

AUC: 0.883 \pm 0.032
Precision: 0.773 \pm 0.107
Recall: 0.810 \pm 0.157
F1-score: 0.769 \pm 0.058



```
[28]: # Entrenar usando el primer modelo CNN con data augmentation
      trained_model2 = train_cnn_model(create_cnn_model_2)
```

Training Fold 1...

Epoch 1/10

704/704 [=====] - 20s 25ms/step - loss: 1.2080 -
accuracy: 0.6269 - val_loss: 0.9962 - val_accuracy: 0.6328 - lr: 0.0010

Epoch 2/10

704/704 [=====] - 17s 24ms/step - loss: 0.8702 -
accuracy: 0.6826 - val_loss: 0.8069 - val_accuracy: 0.6688 - lr: 0.0010

Epoch 3/10

704/704 [=====] - 17s 24ms/step - loss: 0.7491 -
accuracy: 0.7142 - val_loss: 0.7008 - val_accuracy: 0.7408 - lr: 0.0010

Epoch 4/10

704/704 [=====] - 17s 24ms/step - loss: 0.7133 -
accuracy: 0.7400 - val_loss: 1.3939 - val_accuracy: 0.5360 - lr: 0.0010

Epoch 5/10

704/704 [=====] - 17s 24ms/step - loss: 0.6892 -
accuracy: 0.7666 - val_loss: 0.6145 - val_accuracy: 0.8108 - lr: 0.0010

Epoch 6/10

704/704 [=====] - 17s 24ms/step - loss: 0.6604 -
accuracy: 0.7835 - val_loss: 0.6434 - val_accuracy: 0.8068 - lr: 0.0010

Epoch 7/10

704/704 [=====] - 17s 24ms/step - loss: 0.6477 -
accuracy: 0.7932 - val_loss: 0.5945 - val_accuracy: 0.8232 - lr: 0.0010

Epoch 8/10

704/704 [=====] - 17s 24ms/step - loss: 0.6204 -

```

accuracy: 0.8050 - val_loss: 0.6786 - val_accuracy: 0.7856 - lr: 0.0010
Epoch 9/10
704/704 [=====] - 17s 25ms/step - loss: 0.6095 -
accuracy: 0.8104 - val_loss: 0.6732 - val_accuracy: 0.7588 - lr: 0.0010
Epoch 10/10
704/704 [=====] - 17s 24ms/step - loss: 0.5967 -
accuracy: 0.8138 - val_loss: 0.6005 - val_accuracy: 0.8084 - lr: 0.0010
79/79 [=====] - 0s 2ms/step
Training Fold 2...
Epoch 1/10
704/704 [=====] - 20s 26ms/step - loss: 1.2101 -
accuracy: 0.6178 - val_loss: 0.9574 - val_accuracy: 0.6428 - lr: 0.0010
Epoch 2/10
704/704 [=====] - 17s 24ms/step - loss: 0.8865 -
accuracy: 0.6706 - val_loss: 0.7944 - val_accuracy: 0.7056 - lr: 0.0010
Epoch 3/10
704/704 [=====] - 17s 24ms/step - loss: 0.7605 -
accuracy: 0.7132 - val_loss: 0.7023 - val_accuracy: 0.7496 - lr: 0.0010
Epoch 4/10
704/704 [=====] - 17s 24ms/step - loss: 0.7201 -
accuracy: 0.7412 - val_loss: 0.7601 - val_accuracy: 0.7268 - lr: 0.0010
Epoch 5/10
704/704 [=====] - 17s 24ms/step - loss: 0.7024 -
accuracy: 0.7635 - val_loss: 1.0683 - val_accuracy: 0.6240 - lr: 0.0010
Epoch 6/10
704/704 [=====] - 17s 24ms/step - loss: 0.6819 -
accuracy: 0.7776 - val_loss: 0.5839 - val_accuracy: 0.8416 - lr: 0.0010
Epoch 7/10
704/704 [=====] - 17s 24ms/step - loss: 0.6544 -
accuracy: 0.7879 - val_loss: 0.7157 - val_accuracy: 0.7448 - lr: 0.0010
Epoch 8/10
704/704 [=====] - 17s 24ms/step - loss: 0.6356 -
accuracy: 0.8005 - val_loss: 0.5810 - val_accuracy: 0.8308 - lr: 0.0010
Epoch 9/10
704/704 [=====] - 17s 24ms/step - loss: 0.6177 -
accuracy: 0.8048 - val_loss: 0.5697 - val_accuracy: 0.8384 - lr: 0.0010
Epoch 10/10
704/704 [=====] - 17s 24ms/step - loss: 0.5937 -
accuracy: 0.8150 - val_loss: 0.6611 - val_accuracy: 0.7992 - lr: 0.0010
79/79 [=====] - 0s 1ms/step
Training Fold 3...
Epoch 1/10
704/704 [=====] - 20s 25ms/step - loss: 1.1621 -
accuracy: 0.6180 - val_loss: 0.9659 - val_accuracy: 0.6108 - lr: 0.0010
Epoch 2/10
704/704 [=====] - 17s 25ms/step - loss: 0.8582 -
accuracy: 0.6720 - val_loss: 0.7252 - val_accuracy: 0.7572 - lr: 0.0010
Epoch 3/10

```

```

704/704 [=====] - 17s 24ms/step - loss: 0.7482 -
accuracy: 0.7107 - val_loss: 1.0868 - val_accuracy: 0.5448 - lr: 0.0010
Epoch 4/10
704/704 [=====] - 17s 24ms/step - loss: 0.6883 -
accuracy: 0.7473 - val_loss: 0.9261 - val_accuracy: 0.6484 - lr: 0.0010
Epoch 5/10
704/704 [=====] - 17s 25ms/step - loss: 0.6769 -
accuracy: 0.7705 - val_loss: 0.6533 - val_accuracy: 0.7856 - lr: 0.0010
Epoch 6/10
704/704 [=====] - 17s 24ms/step - loss: 0.6615 -
accuracy: 0.7845 - val_loss: 0.6944 - val_accuracy: 0.7576 - lr: 0.0010
Epoch 7/10
704/704 [=====] - 17s 24ms/step - loss: 0.6469 -
accuracy: 0.7924 - val_loss: 0.5983 - val_accuracy: 0.8244 - lr: 0.0010
Epoch 8/10
704/704 [=====] - 17s 24ms/step - loss: 0.6190 -
accuracy: 0.8086 - val_loss: 1.1871 - val_accuracy: 0.5340 - lr: 0.0010
Epoch 9/10
704/704 [=====] - 17s 24ms/step - loss: 0.6023 -
accuracy: 0.8111 - val_loss: 0.5283 - val_accuracy: 0.8604 - lr: 0.0010
Epoch 10/10
704/704 [=====] - 18s 25ms/step - loss: 0.5929 -
accuracy: 0.8136 - val_loss: 0.5554 - val_accuracy: 0.8320 - lr: 0.0010
79/79 [=====] - 0s 1ms/step
Training Fold 4...
Epoch 1/10
704/704 [=====] - 20s 25ms/step - loss: 1.1824 -
accuracy: 0.6174 - val_loss: 1.2145 - val_accuracy: 0.6044 - lr: 0.0010
Epoch 2/10
704/704 [=====] - 17s 24ms/step - loss: 0.8714 -
accuracy: 0.6816 - val_loss: 0.8394 - val_accuracy: 0.6264 - lr: 0.0010
Epoch 3/10
704/704 [=====] - 17s 25ms/step - loss: 0.7681 -
accuracy: 0.7196 - val_loss: 0.7747 - val_accuracy: 0.6904 - lr: 0.0010
Epoch 4/10
704/704 [=====] - 17s 24ms/step - loss: 0.7143 -
accuracy: 0.7461 - val_loss: 0.6482 - val_accuracy: 0.7908 - lr: 0.0010
Epoch 5/10
704/704 [=====] - 17s 24ms/step - loss: 0.6829 -
accuracy: 0.7662 - val_loss: 0.6436 - val_accuracy: 0.7844 - lr: 0.0010
Epoch 6/10
704/704 [=====] - 17s 24ms/step - loss: 0.6664 -
accuracy: 0.7785 - val_loss: 1.1123 - val_accuracy: 0.6772 - lr: 0.0010
Epoch 7/10
704/704 [=====] - 17s 24ms/step - loss: 0.6340 -
accuracy: 0.7973 - val_loss: 0.7038 - val_accuracy: 0.7384 - lr: 0.0010
Epoch 8/10
704/704 [=====] - 17s 24ms/step - loss: 0.6212 -

```

```

accuracy: 0.8072 - val_loss: 0.6299 - val_accuracy: 0.8064 - lr: 0.0010
Epoch 9/10
704/704 [=====] - 17s 24ms/step - loss: 0.6146 -
accuracy: 0.8044 - val_loss: 0.5622 - val_accuracy: 0.8356 - lr: 0.0010
Epoch 10/10
704/704 [=====] - 17s 24ms/step - loss: 0.5898 -
accuracy: 0.8180 - val_loss: 0.7620 - val_accuracy: 0.7444 - lr: 0.0010
79/79 [=====] - 0s 1ms/step
Training Fold 5...
Epoch 1/10
704/704 [=====] - 20s 25ms/step - loss: 1.1734 -
accuracy: 0.6279 - val_loss: 0.9229 - val_accuracy: 0.7036 - lr: 0.0010
Epoch 2/10
704/704 [=====] - 17s 25ms/step - loss: 0.8595 -
accuracy: 0.6774 - val_loss: 0.7745 - val_accuracy: 0.7088 - lr: 0.0010
Epoch 3/10
704/704 [=====] - 17s 24ms/step - loss: 0.7519 -
accuracy: 0.7224 - val_loss: 1.5014 - val_accuracy: 0.5640 - lr: 0.0010
Epoch 4/10
704/704 [=====] - 17s 24ms/step - loss: 0.7129 -
accuracy: 0.7444 - val_loss: 0.9383 - val_accuracy: 0.6704 - lr: 0.0010
Epoch 5/10
704/704 [=====] - 17s 24ms/step - loss: 0.6805 -
accuracy: 0.7647 - val_loss: 0.7123 - val_accuracy: 0.7284 - lr: 0.0010
Epoch 6/10
704/704 [=====] - 17s 24ms/step - loss: 0.6508 -
accuracy: 0.7878 - val_loss: 0.6602 - val_accuracy: 0.7764 - lr: 0.0010
Epoch 7/10
704/704 [=====] - 17s 24ms/step - loss: 0.6358 -
accuracy: 0.7952 - val_loss: 0.5461 - val_accuracy: 0.8424 - lr: 0.0010
Epoch 8/10
704/704 [=====] - 17s 24ms/step - loss: 0.6265 -
accuracy: 0.8014 - val_loss: 0.5555 - val_accuracy: 0.8400 - lr: 0.0010
Epoch 9/10
704/704 [=====] - 18s 25ms/step - loss: 0.5998 -
accuracy: 0.8100 - val_loss: 0.5822 - val_accuracy: 0.8296 - lr: 0.0010
Epoch 10/10
704/704 [=====] - 17s 24ms/step - loss: 0.6070 -
accuracy: 0.8149 - val_loss: 0.6096 - val_accuracy: 0.8128 - lr: 0.0010
79/79 [=====] - 0s 1ms/step
Training Fold 6...
Epoch 1/10
704/704 [=====] - 20s 25ms/step - loss: 1.1754 -
accuracy: 0.6153 - val_loss: 0.9943 - val_accuracy: 0.6336 - lr: 0.0010
Epoch 2/10
704/704 [=====] - 17s 24ms/step - loss: 0.8635 -
accuracy: 0.6658 - val_loss: 4.9951 - val_accuracy: 0.5088 - lr: 0.0010
Epoch 3/10

```

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704/704 [=====] - 17s 24ms/step - loss: 0.7649 -
accuracy: 0.7084 - val_loss: 0.6260 - val_accuracy: 0.7908 - lr: 0.0010
Epoch 4/10
704/704 [=====] - 17s 24ms/step - loss: 0.7117 -
accuracy: 0.7370 - val_loss: 0.7069 - val_accuracy: 0.7148 - lr: 0.0010
Epoch 5/10
704/704 [=====] - 17s 24ms/step - loss: 0.6781 -
accuracy: 0.7579 - val_loss: 0.6352 - val_accuracy: 0.7820 - lr: 0.0010
Epoch 6/10
704/704 [=====] - 17s 24ms/step - loss: 0.6569 -
accuracy: 0.7739 - val_loss: 0.6139 - val_accuracy: 0.7984 - lr: 0.0010
Epoch 7/10
704/704 [=====] - 17s 24ms/step - loss: 0.6420 -
accuracy: 0.7864 - val_loss: 0.6059 - val_accuracy: 0.8004 - lr: 0.0010
Epoch 8/10
704/704 [=====] - 17s 25ms/step - loss: 0.6313 -
accuracy: 0.7940 - val_loss: 0.6703 - val_accuracy: 0.7792 - lr: 0.0010
Epoch 9/10
704/704 [=====] - 17s 24ms/step - loss: 0.6064 -
accuracy: 0.8089 - val_loss: 0.6518 - val_accuracy: 0.7884 - lr: 0.0010
Epoch 10/10
704/704 [=====] - 17s 24ms/step - loss: 0.5940 -
accuracy: 0.8101 - val_loss: 1.2427 - val_accuracy: 0.5784 - lr: 0.0010
79/79 [=====] - 0s 1ms/step
Training Fold 7...
Epoch 1/10
704/704 [=====] - 20s 25ms/step - loss: 1.1865 -
accuracy: 0.6221 - val_loss: 0.9151 - val_accuracy: 0.6828 - lr: 0.0010
Epoch 2/10
704/704 [=====] - 17s 24ms/step - loss: 0.8697 -
accuracy: 0.6832 - val_loss: 0.7992 - val_accuracy: 0.6780 - lr: 0.0010
Epoch 3/10
704/704 [=====] - 17s 24ms/step - loss: 0.7504 -
accuracy: 0.7218 - val_loss: 0.7463 - val_accuracy: 0.6976 - lr: 0.0010
Epoch 4/10
704/704 [=====] - 17s 24ms/step - loss: 0.7052 -
accuracy: 0.7433 - val_loss: 0.7556 - val_accuracy: 0.7028 - lr: 0.0010
Epoch 5/10
704/704 [=====] - 17s 24ms/step - loss: 0.6922 -
accuracy: 0.7667 - val_loss: 0.6794 - val_accuracy: 0.7660 - lr: 0.0010
Epoch 6/10
704/704 [=====] - 17s 24ms/step - loss: 0.6652 -
accuracy: 0.7777 - val_loss: 0.7270 - val_accuracy: 0.7704 - lr: 0.0010
Epoch 7/10
704/704 [=====] - 17s 24ms/step - loss: 0.6374 -
accuracy: 0.7943 - val_loss: 0.7372 - val_accuracy: 0.7524 - lr: 0.0010
Epoch 8/10
704/704 [=====] - 18s 25ms/step - loss: 0.6207 -

```



```

accuracy: 0.7987 - val_loss: 0.5856 - val_accuracy: 0.8200 - lr: 0.0010
Epoch 9/10
704/704 [=====] - 17s 24ms/step - loss: 0.6112 -
accuracy: 0.8084 - val_loss: 0.5931 - val_accuracy: 0.8168 - lr: 0.0010
Epoch 10/10
704/704 [=====] - 17s 24ms/step - loss: 0.5958 -
accuracy: 0.8135 - val_loss: 0.6861 - val_accuracy: 0.7768 - lr: 0.0010
79/79 [=====] - 0s 1ms/step
Training Fold 8...
Epoch 1/10
704/704 [=====] - 20s 25ms/step - loss: 1.2052 -
accuracy: 0.6326 - val_loss: 0.9454 - val_accuracy: 0.6636 - lr: 0.0010
Epoch 2/10
704/704 [=====] - 17s 24ms/step - loss: 0.8755 -
accuracy: 0.6848 - val_loss: 0.9009 - val_accuracy: 0.6664 - lr: 0.0010
Epoch 3/10
704/704 [=====] - 17s 24ms/step - loss: 0.7608 -
accuracy: 0.7109 - val_loss: 1.4435 - val_accuracy: 0.5096 - lr: 0.0010
Epoch 4/10
704/704 [=====] - 17s 25ms/step - loss: 0.7073 -
accuracy: 0.7424 - val_loss: 0.6461 - val_accuracy: 0.7752 - lr: 0.0010
Epoch 5/10
704/704 [=====] - 17s 24ms/step - loss: 0.6923 -
accuracy: 0.7593 - val_loss: 0.7037 - val_accuracy: 0.7528 - lr: 0.0010
Epoch 6/10
704/704 [=====] - 17s 24ms/step - loss: 0.6598 -
accuracy: 0.7773 - val_loss: 0.6945 - val_accuracy: 0.7536 - lr: 0.0010
Epoch 7/10
704/704 [=====] - 17s 24ms/step - loss: 0.6449 -
accuracy: 0.7875 - val_loss: 0.6143 - val_accuracy: 0.8072 - lr: 0.0010
Epoch 8/10
704/704 [=====] - 17s 24ms/step - loss: 0.6291 -
accuracy: 0.7929 - val_loss: 0.6283 - val_accuracy: 0.7840 - lr: 0.0010
Epoch 9/10
704/704 [=====] - 17s 24ms/step - loss: 0.6231 -
accuracy: 0.7953 - val_loss: 0.6367 - val_accuracy: 0.7964 - lr: 0.0010
Epoch 10/10
704/704 [=====] - 17s 24ms/step - loss: 0.6054 -
accuracy: 0.8092 - val_loss: 0.5725 - val_accuracy: 0.8240 - lr: 0.0010
79/79 [=====] - 0s 1ms/step
Training Fold 9...
Epoch 1/10
704/704 [=====] - 20s 25ms/step - loss: 1.1948 -
accuracy: 0.6290 - val_loss: 1.1308 - val_accuracy: 0.5504 - lr: 0.0010
Epoch 2/10
704/704 [=====] - 17s 25ms/step - loss: 0.8745 -
accuracy: 0.6892 - val_loss: 0.7802 - val_accuracy: 0.7164 - lr: 0.0010
Epoch 3/10

```

```

704/704 [=====] - 17s 24ms/step - loss: 0.7660 -
accuracy: 0.7220 - val_loss: 1.3844 - val_accuracy: 0.5840 - lr: 0.0010
Epoch 4/10
704/704 [=====] - 17s 25ms/step - loss: 0.7014 -
accuracy: 0.7534 - val_loss: 2.1651 - val_accuracy: 0.5336 - lr: 0.0010
Epoch 5/10
704/704 [=====] - 17s 24ms/step - loss: 0.6752 -
accuracy: 0.7749 - val_loss: 0.9646 - val_accuracy: 0.6536 - lr: 0.0010
Epoch 6/10
704/704 [=====] - 17s 25ms/step - loss: 0.5960 -
accuracy: 0.8073 - val_loss: 0.5191 - val_accuracy: 0.8368 - lr: 5.0000e-04
Epoch 7/10
704/704 [=====] - 17s 24ms/step - loss: 0.5487 -
accuracy: 0.8212 - val_loss: 0.5957 - val_accuracy: 0.8212 - lr: 5.0000e-04
Epoch 8/10
704/704 [=====] - 17s 24ms/step - loss: 0.5338 -
accuracy: 0.8304 - val_loss: 0.5267 - val_accuracy: 0.8232 - lr: 5.0000e-04
Epoch 9/10
704/704 [=====] - 17s 24ms/step - loss: 0.5123 -
accuracy: 0.8381 - val_loss: 0.5550 - val_accuracy: 0.8232 - lr: 5.0000e-04
Epoch 10/10
704/704 [=====] - 18s 25ms/step - loss: 0.4757 -
accuracy: 0.8516 - val_loss: 0.5612 - val_accuracy: 0.8228 - lr: 2.5000e-04
79/79 [=====] - 0s 1ms/step
Training Fold 10...
Epoch 1/10
704/704 [=====] - 20s 26ms/step - loss: 1.1949 -
accuracy: 0.6155 - val_loss: 0.9346 - val_accuracy: 0.7052 - lr: 0.0010
Epoch 2/10
704/704 [=====] - 17s 24ms/step - loss: 0.8739 -
accuracy: 0.6793 - val_loss: 0.9392 - val_accuracy: 0.6100 - lr: 0.0010
Epoch 3/10
704/704 [=====] - 17s 24ms/step - loss: 0.7505 -
accuracy: 0.7109 - val_loss: 0.6633 - val_accuracy: 0.7580 - lr: 0.0010
Epoch 4/10
704/704 [=====] - 17s 24ms/step - loss: 0.7002 -
accuracy: 0.7400 - val_loss: 0.6513 - val_accuracy: 0.7804 - lr: 0.0010
Epoch 5/10
704/704 [=====] - 17s 25ms/step - loss: 0.6817 -
accuracy: 0.7643 - val_loss: 0.7053 - val_accuracy: 0.7344 - lr: 0.0010
Epoch 6/10
704/704 [=====] - 17s 24ms/step - loss: 0.6615 -
accuracy: 0.7804 - val_loss: 0.6557 - val_accuracy: 0.7836 - lr: 0.0010
Epoch 7/10
704/704 [=====] - 17s 24ms/step - loss: 0.6392 -
accuracy: 0.7920 - val_loss: 0.6505 - val_accuracy: 0.7948 - lr: 0.0010
Epoch 8/10
704/704 [=====] - 17s 24ms/step - loss: 0.6226 -

```

```

accuracy: 0.8028 - val_loss: 0.6770 - val_accuracy: 0.7620 - lr: 0.0010
Epoch 9/10
704/704 [=====] - 17s 24ms/step - loss: 0.6196 -
accuracy: 0.8060 - val_loss: 0.6021 - val_accuracy: 0.8144 - lr: 0.0010
Epoch 10/10
704/704 [=====] - 17s 24ms/step - loss: 0.5949 -
accuracy: 0.8135 - val_loss: 0.5351 - val_accuracy: 0.8368 - lr: 0.0010
79/79 [=====] - 0s 1ms/step

```

Results

```

AUC: 0.898 ± 0.036
Precision: 0.762 ± 0.087
Recall: 0.869 ± 0.105
F1-score: 0.802 ± 0.050

```



```

[29]: # Entrenar usando el primer modelo CNN con data augmentation
      trained_model3 = train_cnn_model(create_cnn_model_3)

```

Training Fold 1...

```

Epoch 1/10
704/704 [=====] - 20s 25ms/step - loss: 1.7380 -
accuracy: 0.6039 - val_loss: 1.1241 - val_accuracy: 0.6636 - lr: 0.0010
Epoch 2/10
704/704 [=====] - 17s 24ms/step - loss: 1.0475 -
accuracy: 0.6448 - val_loss: 0.9013 - val_accuracy: 0.6976 - lr: 0.0010
Epoch 3/10
704/704 [=====] - 17s 25ms/step - loss: 0.9328 -

```

```

accuracy: 0.6687 - val_loss: 1.1309 - val_accuracy: 0.5880 - lr: 0.0010
Epoch 4/10
704/704 [=====] - 17s 25ms/step - loss: 0.8259 -
accuracy: 0.7115 - val_loss: 0.8353 - val_accuracy: 0.7232 - lr: 0.0010
Epoch 5/10
704/704 [=====] - 17s 24ms/step - loss: 0.8340 -
accuracy: 0.7284 - val_loss: 0.9662 - val_accuracy: 0.6228 - lr: 0.0010
Epoch 6/10
704/704 [=====] - 17s 24ms/step - loss: 0.7995 -
accuracy: 0.7503 - val_loss: 0.7845 - val_accuracy: 0.7620 - lr: 0.0010
Epoch 7/10
704/704 [=====] - 17s 25ms/step - loss: 0.7546 -
accuracy: 0.7666 - val_loss: 0.7984 - val_accuracy: 0.7416 - lr: 0.0010
Epoch 8/10
704/704 [=====] - 17s 25ms/step - loss: 0.7377 -
accuracy: 0.7781 - val_loss: 0.7221 - val_accuracy: 0.7876 - lr: 0.0010
Epoch 9/10
704/704 [=====] - 18s 25ms/step - loss: 0.6983 -
accuracy: 0.7914 - val_loss: 1.0164 - val_accuracy: 0.6588 - lr: 0.0010
Epoch 10/10
704/704 [=====] - 17s 25ms/step - loss: 0.6669 -
accuracy: 0.8022 - val_loss: 0.7814 - val_accuracy: 0.7276 - lr: 0.0010
79/79 [=====] - 0s 1ms/step
Training Fold 2...
Epoch 1/10
704/704 [=====] - 20s 25ms/step - loss: 1.9563 -
accuracy: 0.5976 - val_loss: 1.2974 - val_accuracy: 0.6196 - lr: 0.0010
Epoch 2/10
704/704 [=====] - 17s 24ms/step - loss: 1.1122 -
accuracy: 0.6379 - val_loss: 1.2141 - val_accuracy: 0.5624 - lr: 0.0010
Epoch 3/10
704/704 [=====] - 17s 25ms/step - loss: 0.9093 -
accuracy: 0.6741 - val_loss: 0.8185 - val_accuracy: 0.7108 - lr: 0.0010
Epoch 4/10
704/704 [=====] - 17s 24ms/step - loss: 0.8816 -
accuracy: 0.6968 - val_loss: 0.8799 - val_accuracy: 0.6620 - lr: 0.0010
Epoch 5/10
704/704 [=====] - 17s 25ms/step - loss: 0.8136 -
accuracy: 0.7272 - val_loss: 1.1875 - val_accuracy: 0.6180 - lr: 0.0010
Epoch 6/10
704/704 [=====] - 17s 25ms/step - loss: 0.8096 -
accuracy: 0.7436 - val_loss: 0.8730 - val_accuracy: 0.6836 - lr: 0.0010
Epoch 7/10
704/704 [=====] - 17s 25ms/step - loss: 0.6743 -
accuracy: 0.7904 - val_loss: 1.1673 - val_accuracy: 0.5980 - lr: 5.0000e-04
Epoch 8/10
704/704 [=====] - 17s 24ms/step - loss: 0.6184 -
accuracy: 0.8040 - val_loss: 0.5619 - val_accuracy: 0.8336 - lr: 5.0000e-04

```

Epoch 9/10
704/704 [=====] - 17s 25ms/step - loss: 0.5959 - accuracy: 0.8165 - val_loss: 0.5437 - val_accuracy: 0.8432 - lr: 5.0000e-04
Epoch 10/10
704/704 [=====] - 17s 24ms/step - loss: 0.5780 - accuracy: 0.8268 - val_loss: 0.5795 - val_accuracy: 0.8284 - lr: 5.0000e-04
79/79 [=====] - 0s 1ms/step
Training Fold 3...
Epoch 1/10
704/704 [=====] - 20s 25ms/step - loss: 1.9547 - accuracy: 0.5983 - val_loss: 1.2309 - val_accuracy: 0.6860 - lr: 0.0010
Epoch 2/10
704/704 [=====] - 17s 25ms/step - loss: 1.1154 - accuracy: 0.6470 - val_loss: 0.9638 - val_accuracy: 0.6536 - lr: 0.0010
Epoch 3/10
704/704 [=====] - 17s 24ms/step - loss: 0.9567 - accuracy: 0.6606 - val_loss: 0.8862 - val_accuracy: 0.7076 - lr: 0.0010
Epoch 4/10
704/704 [=====] - 17s 25ms/step - loss: 0.8501 - accuracy: 0.7027 - val_loss: 0.9210 - val_accuracy: 0.6540 - lr: 0.0010
Epoch 5/10
704/704 [=====] - 17s 24ms/step - loss: 0.8371 - accuracy: 0.7298 - val_loss: 0.8396 - val_accuracy: 0.7236 - lr: 0.0010
Epoch 6/10
704/704 [=====] - 17s 24ms/step - loss: 0.8375 - accuracy: 0.7403 - val_loss: 0.7943 - val_accuracy: 0.7624 - lr: 0.0010
Epoch 7/10
704/704 [=====] - 17s 24ms/step - loss: 0.7931 - accuracy: 0.7612 - val_loss: 1.0061 - val_accuracy: 0.6284 - lr: 0.0010
Epoch 8/10
704/704 [=====] - 17s 24ms/step - loss: 0.7648 - accuracy: 0.7703 - val_loss: 0.6968 - val_accuracy: 0.8080 - lr: 0.0010
Epoch 9/10
704/704 [=====] - 17s 25ms/step - loss: 0.7371 - accuracy: 0.7816 - val_loss: 0.8422 - val_accuracy: 0.6984 - lr: 0.0010
Epoch 10/10
704/704 [=====] - 17s 25ms/step - loss: 0.7143 - accuracy: 0.7907 - val_loss: 0.6722 - val_accuracy: 0.8164 - lr: 0.0010
79/79 [=====] - 0s 1ms/step
Training Fold 4...
Epoch 1/10
704/704 [=====] - 20s 25ms/step - loss: 1.9567 - accuracy: 0.6007 - val_loss: 1.2548 - val_accuracy: 0.6732 - lr: 0.0010
Epoch 2/10
704/704 [=====] - 18s 25ms/step - loss: 1.1089 - accuracy: 0.6499 - val_loss: 1.2016 - val_accuracy: 0.5216 - lr: 0.0010
Epoch 3/10
704/704 [=====] - 17s 24ms/step - loss: 0.9243 -

```

accuracy: 0.6740 - val_loss: 0.9947 - val_accuracy: 0.6536 - lr: 0.0010
Epoch 4/10
704/704 [=====] - 17s 24ms/step - loss: 0.8634 -
accuracy: 0.7086 - val_loss: 0.9667 - val_accuracy: 0.6684 - lr: 0.0010
Epoch 5/10
704/704 [=====] - 17s 24ms/step - loss: 0.8401 -
accuracy: 0.7456 - val_loss: 0.9334 - val_accuracy: 0.7316 - lr: 0.0010
Epoch 6/10
704/704 [=====] - 17s 24ms/step - loss: 0.8199 -
accuracy: 0.7548 - val_loss: 0.8466 - val_accuracy: 0.7608 - lr: 0.0010
Epoch 7/10
704/704 [=====] - 17s 24ms/step - loss: 0.7947 -
accuracy: 0.7716 - val_loss: 0.9353 - val_accuracy: 0.5856 - lr: 0.0010
Epoch 8/10
704/704 [=====] - 17s 24ms/step - loss: 0.7614 -
accuracy: 0.7841 - val_loss: 0.6924 - val_accuracy: 0.8212 - lr: 0.0010
Epoch 9/10
704/704 [=====] - 17s 24ms/step - loss: 0.7425 -
accuracy: 0.7835 - val_loss: 0.9301 - val_accuracy: 0.7328 - lr: 0.0010
Epoch 10/10
704/704 [=====] - 17s 25ms/step - loss: 0.6983 -
accuracy: 0.7984 - val_loss: 0.6676 - val_accuracy: 0.8228 - lr: 0.0010
79/79 [=====] - 0s 1ms/step
Training Fold 5...
Epoch 1/10
704/704 [=====] - 20s 25ms/step - loss: 2.0138 -
accuracy: 0.5990 - val_loss: 1.2442 - val_accuracy: 0.6656 - lr: 0.0010
Epoch 2/10
704/704 [=====] - 17s 25ms/step - loss: 1.1108 -
accuracy: 0.6324 - val_loss: 0.8683 - val_accuracy: 0.7372 - lr: 0.0010
Epoch 3/10
704/704 [=====] - 17s 25ms/step - loss: 0.8989 -
accuracy: 0.6657 - val_loss: 0.7762 - val_accuracy: 0.7480 - lr: 0.0010
Epoch 4/10
704/704 [=====] - 17s 25ms/step - loss: 0.8507 -
accuracy: 0.6952 - val_loss: 0.9378 - val_accuracy: 0.5968 - lr: 0.0010
Epoch 5/10
704/704 [=====] - 17s 24ms/step - loss: 0.8326 -
accuracy: 0.7202 - val_loss: 0.8380 - val_accuracy: 0.7396 - lr: 0.0010
Epoch 6/10
704/704 [=====] - 17s 24ms/step - loss: 0.8133 -
accuracy: 0.7388 - val_loss: 0.8178 - val_accuracy: 0.7360 - lr: 0.0010
Epoch 7/10
704/704 [=====] - 17s 25ms/step - loss: 0.6799 -
accuracy: 0.7828 - val_loss: 0.5361 - val_accuracy: 0.8504 - lr: 5.0000e-04
Epoch 8/10
704/704 [=====] - 17s 25ms/step - loss: 0.6131 -
accuracy: 0.8056 - val_loss: 0.5777 - val_accuracy: 0.8200 - lr: 5.0000e-04

```

Epoch 9/10
704/704 [=====] - 17s 25ms/step - loss: 0.6028 - accuracy: 0.8108 - val_loss: 0.6124 - val_accuracy: 0.7944 - lr: 5.0000e-04
Epoch 10/10
704/704 [=====] - 17s 24ms/step - loss: 0.5789 - accuracy: 0.8224 - val_loss: 0.5454 - val_accuracy: 0.8460 - lr: 5.0000e-04
79/79 [=====] - 0s 1ms/step
Training Fold 6...
Epoch 1/10
704/704 [=====] - 20s 25ms/step - loss: 1.9236 - accuracy: 0.6110 - val_loss: 1.2988 - val_accuracy: 0.6136 - lr: 0.0010
Epoch 2/10
704/704 [=====] - 17s 24ms/step - loss: 1.0761 - accuracy: 0.6650 - val_loss: 0.8580 - val_accuracy: 0.7428 - lr: 0.0010
Epoch 3/10
704/704 [=====] - 17s 25ms/step - loss: 0.9552 - accuracy: 0.6897 - val_loss: 1.7100 - val_accuracy: 0.5292 - lr: 0.0010
Epoch 4/10
704/704 [=====] - 18s 25ms/step - loss: 0.8546 - accuracy: 0.7256 - val_loss: 0.9487 - val_accuracy: 0.6152 - lr: 0.0010
Epoch 5/10
704/704 [=====] - 17s 24ms/step - loss: 0.8535 - accuracy: 0.7491 - val_loss: 0.7762 - val_accuracy: 0.7860 - lr: 0.0010
Epoch 6/10
704/704 [=====] - 18s 25ms/step - loss: 0.8412 - accuracy: 0.7611 - val_loss: 0.8180 - val_accuracy: 0.7800 - lr: 0.0010
Epoch 7/10
704/704 [=====] - 17s 25ms/step - loss: 0.8128 - accuracy: 0.7677 - val_loss: 0.7155 - val_accuracy: 0.8312 - lr: 0.0010
Epoch 8/10
704/704 [=====] - 17s 24ms/step - loss: 0.7591 - accuracy: 0.7883 - val_loss: 0.7180 - val_accuracy: 0.7992 - lr: 0.0010
Epoch 9/10
704/704 [=====] - 17s 24ms/step - loss: 0.7515 - accuracy: 0.7917 - val_loss: 0.8016 - val_accuracy: 0.7712 - lr: 0.0010
Epoch 10/10
704/704 [=====] - 17s 24ms/step - loss: 0.7106 - accuracy: 0.8009 - val_loss: 0.7431 - val_accuracy: 0.8020 - lr: 0.0010
79/79 [=====] - 0s 1ms/step
Training Fold 7...
Epoch 1/10
704/704 [=====] - 20s 25ms/step - loss: 1.8714 - accuracy: 0.5955 - val_loss: 1.2305 - val_accuracy: 0.6608 - lr: 0.0010
Epoch 2/10
704/704 [=====] - 18s 25ms/step - loss: 1.1012 - accuracy: 0.6366 - val_loss: 1.3391 - val_accuracy: 0.5096 - lr: 0.0010
Epoch 3/10
704/704 [=====] - 17s 24ms/step - loss: 0.9374 -

```

accuracy: 0.6654 - val_loss: 0.8564 - val_accuracy: 0.7620 - lr: 0.0010
Epoch 4/10
704/704 [=====] - 17s 24ms/step - loss: 0.8384 -
accuracy: 0.7104 - val_loss: 0.8395 - val_accuracy: 0.6296 - lr: 0.0010
Epoch 5/10
704/704 [=====] - 17s 24ms/step - loss: 0.8377 -
accuracy: 0.7236 - val_loss: 0.8328 - val_accuracy: 0.7420 - lr: 0.0010
Epoch 6/10
704/704 [=====] - 17s 24ms/step - loss: 0.7962 -
accuracy: 0.7527 - val_loss: 0.8857 - val_accuracy: 0.6776 - lr: 0.0010
Epoch 7/10
704/704 [=====] - 17s 24ms/step - loss: 0.7873 -
accuracy: 0.7600 - val_loss: 0.7661 - val_accuracy: 0.7592 - lr: 0.0010
Epoch 8/10
704/704 [=====] - 17s 25ms/step - loss: 0.7430 -
accuracy: 0.7770 - val_loss: 0.9711 - val_accuracy: 0.6604 - lr: 0.0010
Epoch 9/10
704/704 [=====] - 17s 24ms/step - loss: 0.7059 -
accuracy: 0.7886 - val_loss: 0.6410 - val_accuracy: 0.8228 - lr: 0.0010
Epoch 10/10
704/704 [=====] - 17s 24ms/step - loss: 0.6879 -
accuracy: 0.7962 - val_loss: 0.7980 - val_accuracy: 0.6864 - lr: 0.0010
79/79 [=====] - 0s 1ms/step
Training Fold 8...
Epoch 1/10
704/704 [=====] - 20s 25ms/step - loss: 2.0250 -
accuracy: 0.6057 - val_loss: 1.6675 - val_accuracy: 0.5232 - lr: 0.0010
Epoch 2/10
704/704 [=====] - 17s 24ms/step - loss: 1.1107 -
accuracy: 0.6512 - val_loss: 1.0005 - val_accuracy: 0.6356 - lr: 0.0010
Epoch 3/10
704/704 [=====] - 17s 24ms/step - loss: 0.9051 -
accuracy: 0.6759 - val_loss: 1.0621 - val_accuracy: 0.5980 - lr: 0.0010
Epoch 4/10
704/704 [=====] - 17s 24ms/step - loss: 0.8868 -
accuracy: 0.7033 - val_loss: 0.7837 - val_accuracy: 0.7104 - lr: 0.0010
Epoch 5/10
704/704 [=====] - 17s 24ms/step - loss: 0.8491 -
accuracy: 0.7291 - val_loss: 0.8663 - val_accuracy: 0.7368 - lr: 0.0010
Epoch 6/10
704/704 [=====] - 17s 25ms/step - loss: 0.8335 -
accuracy: 0.7473 - val_loss: 0.8077 - val_accuracy: 0.7600 - lr: 0.0010
Epoch 7/10
704/704 [=====] - 18s 25ms/step - loss: 0.7944 -
accuracy: 0.7697 - val_loss: 0.7358 - val_accuracy: 0.8136 - lr: 0.0010
Epoch 8/10
704/704 [=====] - 17s 24ms/step - loss: 0.7783 -
accuracy: 0.7767 - val_loss: 0.8225 - val_accuracy: 0.7068 - lr: 0.0010

```


Epoch 9/10
704/704 [=====] - 17s 24ms/step - loss: 0.7380 - accuracy: 0.7902 - val_loss: 0.6765 - val_accuracy: 0.8212 - lr: 0.0010
Epoch 10/10
704/704 [=====] - 17s 24ms/step - loss: 0.7157 - accuracy: 0.8013 - val_loss: 0.7548 - val_accuracy: 0.7768 - lr: 0.0010
79/79 [=====] - 0s 1ms/step
Training Fold 9...
Epoch 1/10
704/704 [=====] - 20s 25ms/step - loss: 1.8506 - accuracy: 0.6054 - val_loss: 1.2570 - val_accuracy: 0.6504 - lr: 0.0010
Epoch 2/10
704/704 [=====] - 17s 24ms/step - loss: 1.1344 - accuracy: 0.6566 - val_loss: 0.9578 - val_accuracy: 0.6844 - lr: 0.0010
Epoch 3/10
704/704 [=====] - 17s 24ms/step - loss: 0.9061 - accuracy: 0.6870 - val_loss: 0.9576 - val_accuracy: 0.6540 - lr: 0.0010
Epoch 4/10
704/704 [=====] - 17s 24ms/step - loss: 0.8545 - accuracy: 0.7164 - val_loss: 0.9013 - val_accuracy: 0.7208 - lr: 0.0010
Epoch 5/10
704/704 [=====] - 17s 24ms/step - loss: 0.8285 - accuracy: 0.7406 - val_loss: 0.7828 - val_accuracy: 0.7704 - lr: 0.0010
Epoch 6/10
704/704 [=====] - 17s 25ms/step - loss: 0.8229 - accuracy: 0.7516 - val_loss: 0.7449 - val_accuracy: 0.7864 - lr: 0.0010
Epoch 7/10
704/704 [=====] - 17s 24ms/step - loss: 0.7901 - accuracy: 0.7619 - val_loss: 0.7398 - val_accuracy: 0.7856 - lr: 0.0010
Epoch 8/10
704/704 [=====] - 17s 24ms/step - loss: 0.7439 - accuracy: 0.7807 - val_loss: 0.7306 - val_accuracy: 0.7924 - lr: 0.0010
Epoch 9/10
704/704 [=====] - 17s 25ms/step - loss: 0.7268 - accuracy: 0.7928 - val_loss: 0.9314 - val_accuracy: 0.6756 - lr: 0.0010
Epoch 10/10
704/704 [=====] - 17s 25ms/step - loss: 0.6930 - accuracy: 0.7978 - val_loss: 0.7381 - val_accuracy: 0.7488 - lr: 0.0010
79/79 [=====] - 0s 1ms/step
Training Fold 10...
Epoch 1/10
704/704 [=====] - 20s 25ms/step - loss: 1.8556 - accuracy: 0.6138 - val_loss: 1.2650 - val_accuracy: 0.5680 - lr: 0.0010
Epoch 2/10
704/704 [=====] - 17s 24ms/step - loss: 1.1111 - accuracy: 0.6508 - val_loss: 0.9270 - val_accuracy: 0.6940 - lr: 0.0010
Epoch 3/10
704/704 [=====] - 17s 24ms/step - loss: 0.9248 -

```

accuracy: 0.6766 - val_loss: 1.1076 - val_accuracy: 0.5072 - lr: 0.0010
Epoch 4/10
704/704 [=====] - 17s 24ms/step - loss: 0.8750 -
accuracy: 0.7088 - val_loss: 0.9289 - val_accuracy: 0.6428 - lr: 0.0010
Epoch 5/10
704/704 [=====] - 17s 25ms/step - loss: 0.8121 -
accuracy: 0.7300 - val_loss: 0.7423 - val_accuracy: 0.7608 - lr: 0.0010
Epoch 6/10
704/704 [=====] - 17s 24ms/step - loss: 0.8064 -
accuracy: 0.7498 - val_loss: 0.7774 - val_accuracy: 0.7556 - lr: 0.0010
Epoch 7/10
704/704 [=====] - 17s 24ms/step - loss: 0.7911 -
accuracy: 0.7604 - val_loss: 0.7358 - val_accuracy: 0.7932 - lr: 0.0010
Epoch 8/10
704/704 [=====] - 17s 24ms/step - loss: 0.7649 -
accuracy: 0.7718 - val_loss: 0.7645 - val_accuracy: 0.7988 - lr: 0.0010
Epoch 9/10
704/704 [=====] - 17s 24ms/step - loss: 0.7279 -
accuracy: 0.7885 - val_loss: 0.7757 - val_accuracy: 0.7612 - lr: 0.0010
Epoch 10/10
704/704 [=====] - 18s 25ms/step - loss: 0.6982 -
accuracy: 0.7960 - val_loss: 0.6704 - val_accuracy: 0.7964 - lr: 0.0010
79/79 [=====] - 0s 1ms/step

```

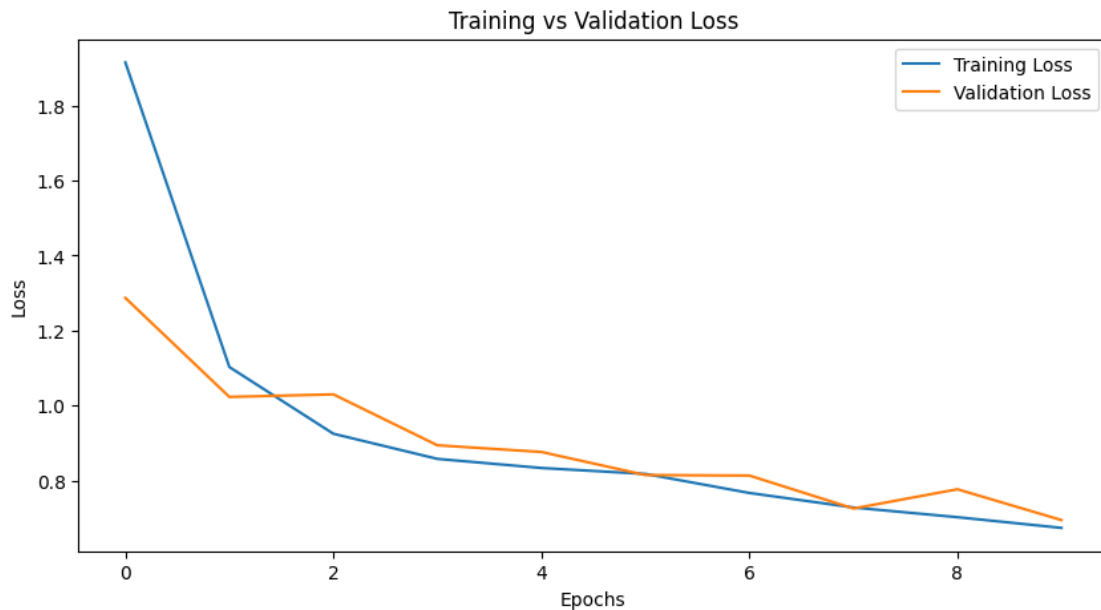
Results

AUC: 0.900 ± 0.017

Precision: 0.781 ± 0.081

Recall: 0.832 ± 0.156

F1-score: 0.788 ± 0.079



```
[30]: # Preprocessed test data (assume `test_cnn` is already preprocessed)
# test_cnn is the equivalent of train_cnn but for your test images.

# Hacer predicciones en el conjunto de test
test_predictions = trained_model3.predict(test_cnn)

# Convertir las predicciones (probabilidades) a etiquetas (0 o 1)
test_pred_labels = np.argmax(test_predictions, axis=1)

# Convertir predicciones (0 y 1) a etiquetas "cat" y "dog"
test_pred_labels = ['cat' if pred == 0 else 'dog' for pred in test_pred_labels]

# Imprimir etiquetas predichas para cada imagen de test
for img_name, label in zip(os.listdir(test_folder), test_pred_labels):
    print(f"Image: {img_name} -> Predicted: {label}")
```

Streaming output truncated to the last 5000 lines.

```
Image: 610.jpg -> Predicted: dog
Image: 1381.jpg -> Predicted: dog
Image: 708.jpg -> Predicted: dog
Image: 3892.jpg -> Predicted: dog
Image: 8657.jpg -> Predicted: dog
Image: 6025.jpg -> Predicted: dog
Image: 6464.jpg -> Predicted: dog
Image: 4513.jpg -> Predicted: dog
Image: 422.jpg -> Predicted: dog
Image: 11645.jpg -> Predicted: dog
Image: 3941.jpg -> Predicted: dog
Image: 10575.jpg -> Predicted: cat
Image: 2969.jpg -> Predicted: dog
Image: 4445.jpg -> Predicted: cat
Image: 1580.jpg -> Predicted: dog
Image: 9649.jpg -> Predicted: dog
Image: 9957.jpg -> Predicted: cat
Image: 9108.jpg -> Predicted: dog
Image: 12480.jpg -> Predicted: cat
Image: 10316.jpg -> Predicted: cat
Image: 4446.jpg -> Predicted: cat
Image: 10270.jpg -> Predicted: cat
Image: 5743.jpg -> Predicted: cat
Image: 1142.jpg -> Predicted: cat
Image: 481.jpg -> Predicted: dog
Image: 4308.jpg -> Predicted: cat
Image: 6276.jpg -> Predicted: dog
Image: 5910.jpg -> Predicted: cat
```

Image: 1140.jpg -> Predicted: cat
Image: 11345.jpg -> Predicted: cat
Image: 3677.jpg -> Predicted: dog
Image: 3404.jpg -> Predicted: cat
Image: 7860.jpg -> Predicted: dog
Image: 2087.jpg -> Predicted: cat
Image: 3642.jpg -> Predicted: dog
Image: 8288.jpg -> Predicted: dog
Image: 2429.jpg -> Predicted: cat
Image: 3321.jpg -> Predicted: dog
Image: 1799.jpg -> Predicted: cat
Image: 2314.jpg -> Predicted: cat
Image: 12161.jpg -> Predicted: cat
Image: 7004.jpg -> Predicted: cat
Image: 7642.jpg -> Predicted: dog
Image: 222.jpg -> Predicted: dog
Image: 10092.jpg -> Predicted: cat
Image: 5299.jpg -> Predicted: cat
Image: 420.jpg -> Predicted: dog
Image: 7735.jpg -> Predicted: dog
Image: 316.jpg -> Predicted: cat
Image: 3989.jpg -> Predicted: dog
Image: 9005.jpg -> Predicted: cat
Image: 10148.jpg -> Predicted: dog
Image: 5811.jpg -> Predicted: cat
Image: 8008.jpg -> Predicted: dog
Image: 8576.jpg -> Predicted: cat
Image: 9199.jpg -> Predicted: dog
Image: 556.jpg -> Predicted: cat
Image: 9973.jpg -> Predicted: dog
Image: 11205.jpg -> Predicted: dog
Image: 5174.jpg -> Predicted: dog
Image: 4360.jpg -> Predicted: cat
Image: 6137.jpg -> Predicted: dog
Image: 11758.jpg -> Predicted: dog
Image: 4840.jpg -> Predicted: dog
Image: 7672.jpg -> Predicted: cat
Image: 7915.jpg -> Predicted: cat
Image: 10453.jpg -> Predicted: cat
Image: 7747.jpg -> Predicted: dog
Image: 9105.jpg -> Predicted: dog
Image: 6460.jpg -> Predicted: dog
Image: 553.jpg -> Predicted: dog
Image: 10540.jpg -> Predicted: dog
Image: 4392.jpg -> Predicted: cat
Image: 999.jpg -> Predicted: cat
Image: 8228.jpg -> Predicted: dog
Image: 9283.jpg -> Predicted: dog

Image: 792.jpg -> Predicted: dog
Image: 7238.jpg -> Predicted: cat
Image: 5364.jpg -> Predicted: dog
Image: 3786.jpg -> Predicted: dog
Image: 742.jpg -> Predicted: dog
Image: 775.jpg -> Predicted: cat
Image: 9574.jpg -> Predicted: cat
Image: 11002.jpg -> Predicted: dog
Image: 7990.jpg -> Predicted: dog
Image: 2244.jpg -> Predicted: dog
Image: 10644.jpg -> Predicted: dog
Image: 985.jpg -> Predicted: cat
Image: 10219.jpg -> Predicted: dog
Image: 9738.jpg -> Predicted: dog
Image: 11863.jpg -> Predicted: dog
Image: 6412.jpg -> Predicted: cat
Image: 7201.jpg -> Predicted: cat
Image: 1912.jpg -> Predicted: dog
Image: 9651.jpg -> Predicted: dog
Image: 10604.jpg -> Predicted: dog
Image: 1426.jpg -> Predicted: cat
Image: 10098.jpg -> Predicted: dog
Image: 8965.jpg -> Predicted: dog
Image: 9798.jpg -> Predicted: dog
Image: 883.jpg -> Predicted: dog
Image: 3632.jpg -> Predicted: dog
Image: 12061.jpg -> Predicted: dog
Image: 7727.jpg -> Predicted: cat
Image: 885.jpg -> Predicted: cat
Image: 8212.jpg -> Predicted: dog
Image: 2734.jpg -> Predicted: cat
Image: 11269.jpg -> Predicted: dog
Image: 10471.jpg -> Predicted: cat
Image: 3449.jpg -> Predicted: cat
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2.1 +1

(mejorado)

```

[37]: import tensorflow as tf
      from tensorflow.keras.models import Sequential
      from tensorflow.keras.layers import Conv2D, MaxPooling2D, Flatten, Dense,
      ↪Dropout, BatchNormalization
      from sklearn.model_selection import StratifiedKFold
      from sklearn.metrics import roc_auc_score, precision_score, recall_score,
      ↪f1_score
      import numpy as np
      import matplotlib.pyplot as plt

      # Deep CNN Architecture
      def create_deep_cnn_model():
          model = Sequential([
              Conv2D(32, (3, 3), activation='relu', input_shape=(64, 64, 3)),
              BatchNormalization(),
  
```

```

        MaxPooling2D(pool_size=(2, 2)),

        Conv2D(64, (3, 3), activation='relu'),
        BatchNormalization(),
        MaxPooling2D(pool_size=(2, 2)),

        Conv2D(128, (3, 3), activation='relu'),
        BatchNormalization(),
        MaxPooling2D(pool_size=(2, 2)),

        Conv2D(256, (3, 3), activation='relu'),
        BatchNormalization(),
        MaxPooling2D(pool_size=(2, 2)),

        Flatten(),
        Dense(512, activation='relu'),
        Dropout(0.5),

        Dense(256, activation='relu'),
        Dropout(0.5),

        Dense(2, activation='softmax')
    ])

    return model

# Function to train and evaluate the deep CNN model
def train_deep_cnn_model():
    skf = StratifiedKFold(n_splits=10)
    auc_scores = []
    precision_scores = []
    recall_scores = []
    f1_scores = []

    # Para guardar las pérdidas de entrenamiento y validación
    training_losses = []
    validation_losses = []

    fold = 0
    for train_index, test_index in skf.split(train_cnn, y):
        fold += 1
        print(f"\nTraining Fold {fold}...")

        X_train, X_test = train_cnn[train_index], train_cnn[test_index]
        y_train, y_test = y_categorical[train_index], y_categorical[test_index]

        model = create_deep_cnn_model()

```

```

        model.compile(optimizer='adam', loss='categorical_crossentropy',
↪metrics=['accuracy'])

        history = model.fit(X_train, y_train, validation_data=(X_test, y_test),
↪epochs=10, batch_size=32)

        # Almacenar las pérdidas de entrenamiento y validación para cada época
        training_losses.append(history.history['loss'])
        validation_losses.append(history.history['val_loss'])

        y_pred = model.predict(X_test)
        y_pred_class = y_pred.argmax(axis=1)
        y_true = y_test.argmax(axis=1)

        auc = roc_auc_score(y_true, y_pred[:, 1])
        precision = precision_score(y_true, y_pred_class)
        recall = recall_score(y_true, y_pred_class)
        f1 = f1_score(y_true, y_pred_class)

        auc_scores.append(auc)
        precision_scores.append(precision)
        recall_scores.append(recall)
        f1_scores.append(f1)

        # Mostrar resultados promedio
        print("\nResults")
        print(f"AUC: {np.mean(auc_scores):.3f} ± {np.std(auc_scores):.3f}")
        print(f"Precision: {np.mean(precision_scores):.3f} ± {np.
↪std(precision_scores):.3f}")
        print(f"Recall: {np.mean(recall_scores):.3f} ± {np.std(recall_scores):.3f}")
        print(f"F1-score: {np.mean(f1_scores):.3f} ± {np.std(f1_scores):.3f}")

        # Graficar pérdidas de entrenamiento y validación
        plt.figure(figsize=(10, 5))
        plt.plot(np.mean(training_losses, axis=0), label="Training Loss")
        plt.plot(np.mean(validation_losses, axis=0), label="Validation Loss")
        plt.title("Training vs Validation Loss")
        plt.xlabel("Epochs")
        plt.ylabel("Loss")
        plt.legend()
        plt.show()

        # Train the deep CNN model
        train_deep_cnn_model()

```

Training Fold 1...

Epoch 1/10
704/704 [=====] - 6s 5ms/step - loss: 0.6824 - accuracy: 0.6453 - val_loss: 0.6691 - val_accuracy: 0.5884
Epoch 2/10
704/704 [=====] - 3s 4ms/step - loss: 0.4905 - accuracy: 0.7679 - val_loss: 0.4942 - val_accuracy: 0.7732
Epoch 3/10
704/704 [=====] - 3s 4ms/step - loss: 0.3907 - accuracy: 0.8252 - val_loss: 0.4512 - val_accuracy: 0.7876
Epoch 4/10
704/704 [=====] - 3s 4ms/step - loss: 0.3321 - accuracy: 0.8565 - val_loss: 0.4624 - val_accuracy: 0.7632
Epoch 5/10
704/704 [=====] - 3s 4ms/step - loss: 0.2900 - accuracy: 0.8804 - val_loss: 0.3603 - val_accuracy: 0.8528
Epoch 6/10
704/704 [=====] - 3s 4ms/step - loss: 0.2456 - accuracy: 0.8985 - val_loss: 0.3197 - val_accuracy: 0.8728
Epoch 7/10
704/704 [=====] - 3s 4ms/step - loss: 0.2128 - accuracy: 0.9149 - val_loss: 0.3499 - val_accuracy: 0.8440
Epoch 8/10
704/704 [=====] - 3s 4ms/step - loss: 0.1859 - accuracy: 0.9279 - val_loss: 0.2964 - val_accuracy: 0.8808
Epoch 9/10
704/704 [=====] - 3s 4ms/step - loss: 0.1579 - accuracy: 0.9369 - val_loss: 0.3905 - val_accuracy: 0.8548
Epoch 10/10
704/704 [=====] - 3s 4ms/step - loss: 0.1584 - accuracy: 0.9393 - val_loss: 0.4578 - val_accuracy: 0.8440
79/79 [=====] - 0s 1ms/step

Training Fold 2...

Epoch 1/10
704/704 [=====] - 8s 5ms/step - loss: 0.6870 - accuracy: 0.6488 - val_loss: 0.7559 - val_accuracy: 0.5836
Epoch 2/10
704/704 [=====] - 3s 4ms/step - loss: 0.4800 - accuracy: 0.7718 - val_loss: 0.4992 - val_accuracy: 0.7480
Epoch 3/10
704/704 [=====] - 3s 4ms/step - loss: 0.3830 - accuracy: 0.8328 - val_loss: 0.4303 - val_accuracy: 0.7768
Epoch 4/10
704/704 [=====] - 3s 4ms/step - loss: 0.3224 - accuracy: 0.8624 - val_loss: 0.3423 - val_accuracy: 0.8404
Epoch 5/10
704/704 [=====] - 3s 4ms/step - loss: 0.2842 - accuracy: 0.8834 - val_loss: 0.3465 - val_accuracy: 0.8488

Epoch 6/10
704/704 [=====] - 3s 4ms/step - loss: 0.2372 -
accuracy: 0.9043 - val_loss: 0.4196 - val_accuracy: 0.8104
Epoch 7/10
704/704 [=====] - 3s 4ms/step - loss: 0.2102 -
accuracy: 0.9184 - val_loss: 0.3191 - val_accuracy: 0.8572
Epoch 8/10
704/704 [=====] - 3s 4ms/step - loss: 0.1742 -
accuracy: 0.9325 - val_loss: 0.3306 - val_accuracy: 0.8580
Epoch 9/10
704/704 [=====] - 3s 4ms/step - loss: 0.1435 -
accuracy: 0.9448 - val_loss: 0.3544 - val_accuracy: 0.8496
Epoch 10/10
704/704 [=====] - 3s 4ms/step - loss: 0.1366 -
accuracy: 0.9501 - val_loss: 0.3701 - val_accuracy: 0.8608
79/79 [=====] - 0s 2ms/step

Training Fold 3...

Epoch 1/10
704/704 [=====] - 6s 5ms/step - loss: 0.6682 -
accuracy: 0.6586 - val_loss: 0.5033 - val_accuracy: 0.7568
Epoch 2/10
704/704 [=====] - 3s 4ms/step - loss: 0.4680 -
accuracy: 0.7801 - val_loss: 0.4734 - val_accuracy: 0.7672
Epoch 3/10
704/704 [=====] - 3s 4ms/step - loss: 0.3783 -
accuracy: 0.8348 - val_loss: 0.3920 - val_accuracy: 0.8240
Epoch 4/10
704/704 [=====] - 3s 4ms/step - loss: 0.3117 -
accuracy: 0.8679 - val_loss: 0.4255 - val_accuracy: 0.7872
Epoch 5/10
704/704 [=====] - 3s 4ms/step - loss: 0.2741 -
accuracy: 0.8858 - val_loss: 0.4468 - val_accuracy: 0.7808
Epoch 6/10
704/704 [=====] - 3s 4ms/step - loss: 0.2308 -
accuracy: 0.9071 - val_loss: 0.3725 - val_accuracy: 0.8448
Epoch 7/10
704/704 [=====] - 3s 4ms/step - loss: 0.1965 -
accuracy: 0.9218 - val_loss: 0.3041 - val_accuracy: 0.8728
Epoch 8/10
704/704 [=====] - 3s 4ms/step - loss: 0.1618 -
accuracy: 0.9362 - val_loss: 0.3297 - val_accuracy: 0.8536
Epoch 9/10
704/704 [=====] - 3s 4ms/step - loss: 0.1529 -
accuracy: 0.9402 - val_loss: 0.3438 - val_accuracy: 0.8700
Epoch 10/10
704/704 [=====] - 3s 4ms/step - loss: 0.1239 -
accuracy: 0.9528 - val_loss: 0.3850 - val_accuracy: 0.8580

79/79 [=====] - 0s 1ms/step

Training Fold 4...

Epoch 1/10

704/704 [=====] - 6s 5ms/step - loss: 0.6939 -
accuracy: 0.6427 - val_loss: 0.5776 - val_accuracy: 0.6756

Epoch 2/10

704/704 [=====] - 3s 4ms/step - loss: 0.4725 -
accuracy: 0.7788 - val_loss: 0.5292 - val_accuracy: 0.7308

Epoch 3/10

704/704 [=====] - 3s 4ms/step - loss: 0.3830 -
accuracy: 0.8292 - val_loss: 0.4137 - val_accuracy: 0.8080

Epoch 4/10

704/704 [=====] - 3s 4ms/step - loss: 0.3144 -
accuracy: 0.8678 - val_loss: 0.4085 - val_accuracy: 0.8116

Epoch 5/10

704/704 [=====] - 3s 4ms/step - loss: 0.2729 -
accuracy: 0.8873 - val_loss: 0.3587 - val_accuracy: 0.8388

Epoch 6/10

704/704 [=====] - 3s 4ms/step - loss: 0.2333 -
accuracy: 0.9030 - val_loss: 0.4873 - val_accuracy: 0.8104

Epoch 7/10

704/704 [=====] - 3s 4ms/step - loss: 0.2030 -
accuracy: 0.9195 - val_loss: 0.4023 - val_accuracy: 0.8496

Epoch 8/10

704/704 [=====] - 3s 4ms/step - loss: 0.1767 -
accuracy: 0.9307 - val_loss: 0.3871 - val_accuracy: 0.8296

Epoch 9/10

704/704 [=====] - 3s 4ms/step - loss: 0.1570 -
accuracy: 0.9401 - val_loss: 0.3372 - val_accuracy: 0.8528

Epoch 10/10

704/704 [=====] - 3s 4ms/step - loss: 0.1234 -
accuracy: 0.9531 - val_loss: 0.6363 - val_accuracy: 0.8252

79/79 [=====] - 0s 2ms/step

Training Fold 5...

Epoch 1/10

704/704 [=====] - 6s 5ms/step - loss: 0.6826 -
accuracy: 0.6464 - val_loss: 0.6234 - val_accuracy: 0.6232

Epoch 2/10

704/704 [=====] - 3s 4ms/step - loss: 0.4925 -
accuracy: 0.7692 - val_loss: 0.7016 - val_accuracy: 0.5876

Epoch 3/10

704/704 [=====] - 3s 4ms/step - loss: 0.3999 -
accuracy: 0.8224 - val_loss: 0.4468 - val_accuracy: 0.7808

Epoch 4/10

704/704 [=====] - 3s 4ms/step - loss: 0.3370 -
accuracy: 0.8572 - val_loss: 0.6282 - val_accuracy: 0.7024

Epoch 5/10
704/704 [=====] - 3s 4ms/step - loss: 0.2904 -
accuracy: 0.8764 - val_loss: 0.3084 - val_accuracy: 0.8656
Epoch 6/10
704/704 [=====] - 3s 4ms/step - loss: 0.2511 -
accuracy: 0.8964 - val_loss: 0.3149 - val_accuracy: 0.8668
Epoch 7/10
704/704 [=====] - 3s 4ms/step - loss: 0.2144 -
accuracy: 0.9135 - val_loss: 0.2840 - val_accuracy: 0.8812
Epoch 8/10
704/704 [=====] - 3s 4ms/step - loss: 0.1883 -
accuracy: 0.9268 - val_loss: 0.3499 - val_accuracy: 0.8540
Epoch 9/10
704/704 [=====] - 3s 4ms/step - loss: 0.1598 -
accuracy: 0.9381 - val_loss: 0.3680 - val_accuracy: 0.8448
Epoch 10/10
704/704 [=====] - 3s 4ms/step - loss: 0.1344 -
accuracy: 0.9478 - val_loss: 0.3652 - val_accuracy: 0.8664
79/79 [=====] - 0s 1ms/step

Training Fold 6...

Epoch 1/10
704/704 [=====] - 6s 5ms/step - loss: 0.6742 -
accuracy: 0.6592 - val_loss: 0.6134 - val_accuracy: 0.6596
Epoch 2/10
704/704 [=====] - 3s 4ms/step - loss: 0.4764 -
accuracy: 0.7747 - val_loss: 0.6319 - val_accuracy: 0.6276
Epoch 3/10
704/704 [=====] - 3s 4ms/step - loss: 0.3898 -
accuracy: 0.8283 - val_loss: 0.3741 - val_accuracy: 0.8292
Epoch 4/10
704/704 [=====] - 3s 4ms/step - loss: 0.3314 -
accuracy: 0.8585 - val_loss: 0.3740 - val_accuracy: 0.8284
Epoch 5/10
704/704 [=====] - 3s 4ms/step - loss: 0.2809 -
accuracy: 0.8836 - val_loss: 0.4943 - val_accuracy: 0.8096
Epoch 6/10
704/704 [=====] - 3s 4ms/step - loss: 0.2430 -
accuracy: 0.9000 - val_loss: 0.3086 - val_accuracy: 0.8604
Epoch 7/10
704/704 [=====] - 3s 4ms/step - loss: 0.2037 -
accuracy: 0.9205 - val_loss: 0.4817 - val_accuracy: 0.7944
Epoch 8/10
704/704 [=====] - 3s 4ms/step - loss: 0.1695 -
accuracy: 0.9340 - val_loss: 0.3117 - val_accuracy: 0.8920
Epoch 9/10
704/704 [=====] - 3s 4ms/step - loss: 0.1390 -
accuracy: 0.9464 - val_loss: 0.3278 - val_accuracy: 0.8884

Epoch 10/10
704/704 [=====] - 3s 4ms/step - loss: 0.1188 -
accuracy: 0.9544 - val_loss: 0.6728 - val_accuracy: 0.8136
79/79 [=====] - 0s 1ms/step

Training Fold 7...

Epoch 1/10
704/704 [=====] - 6s 5ms/step - loss: 0.6896 -
accuracy: 0.6521 - val_loss: 0.5850 - val_accuracy: 0.6756
Epoch 2/10
704/704 [=====] - 3s 4ms/step - loss: 0.4825 -
accuracy: 0.7749 - val_loss: 0.4169 - val_accuracy: 0.8100
Epoch 3/10
704/704 [=====] - 3s 4ms/step - loss: 0.3996 -
accuracy: 0.8224 - val_loss: 0.5213 - val_accuracy: 0.7420
Epoch 4/10
704/704 [=====] - 3s 4ms/step - loss: 0.3297 -
accuracy: 0.8586 - val_loss: 0.5712 - val_accuracy: 0.7296
Epoch 5/10
704/704 [=====] - 3s 4ms/step - loss: 0.2881 -
accuracy: 0.8827 - val_loss: 0.3692 - val_accuracy: 0.8304
Epoch 6/10
704/704 [=====] - 3s 4ms/step - loss: 0.2486 -
accuracy: 0.8954 - val_loss: 0.3364 - val_accuracy: 0.8552
Epoch 7/10
704/704 [=====] - 3s 4ms/step - loss: 0.2050 -
accuracy: 0.9176 - val_loss: 0.4792 - val_accuracy: 0.8088
Epoch 8/10
704/704 [=====] - 3s 4ms/step - loss: 0.1740 -
accuracy: 0.9328 - val_loss: 0.3700 - val_accuracy: 0.8524
Epoch 9/10
704/704 [=====] - 3s 4ms/step - loss: 0.1570 -
accuracy: 0.9393 - val_loss: 0.3622 - val_accuracy: 0.8420
Epoch 10/10
704/704 [=====] - 3s 4ms/step - loss: 0.1258 -
accuracy: 0.9516 - val_loss: 0.3691 - val_accuracy: 0.8800
79/79 [=====] - 0s 2ms/step

Training Fold 8...

Epoch 1/10
704/704 [=====] - 6s 5ms/step - loss: 0.6939 -
accuracy: 0.6491 - val_loss: 0.8504 - val_accuracy: 0.5504
Epoch 2/10
704/704 [=====] - 3s 4ms/step - loss: 0.4799 -
accuracy: 0.7749 - val_loss: 0.4926 - val_accuracy: 0.7612
Epoch 3/10
704/704 [=====] - 3s 4ms/step - loss: 0.3842 -
accuracy: 0.8270 - val_loss: 0.5012 - val_accuracy: 0.7612

Epoch 4/10
704/704 [=====] - 3s 4ms/step - loss: 0.3225 -
accuracy: 0.8644 - val_loss: 0.4019 - val_accuracy: 0.8180
Epoch 5/10
704/704 [=====] - 3s 4ms/step - loss: 0.3049 -
accuracy: 0.8722 - val_loss: 0.4277 - val_accuracy: 0.8072
Epoch 6/10
704/704 [=====] - 3s 4ms/step - loss: 0.2385 -
accuracy: 0.9028 - val_loss: 0.4029 - val_accuracy: 0.8276
Epoch 7/10
704/704 [=====] - 3s 4ms/step - loss: 0.1964 -
accuracy: 0.9183 - val_loss: 0.3111 - val_accuracy: 0.8700
Epoch 8/10
704/704 [=====] - 3s 4ms/step - loss: 0.1715 -
accuracy: 0.9345 - val_loss: 0.4360 - val_accuracy: 0.7984
Epoch 9/10
704/704 [=====] - 3s 4ms/step - loss: 0.1492 -
accuracy: 0.9462 - val_loss: 0.3014 - val_accuracy: 0.8784
Epoch 10/10
704/704 [=====] - 3s 4ms/step - loss: 0.1221 -
accuracy: 0.9528 - val_loss: 0.5613 - val_accuracy: 0.8264
79/79 [=====] - 0s 1ms/step

Training Fold 9...

Epoch 1/10
704/704 [=====] - 6s 5ms/step - loss: 0.6611 -
accuracy: 0.6625 - val_loss: 0.5339 - val_accuracy: 0.7328
Epoch 2/10
704/704 [=====] - 3s 4ms/step - loss: 0.4661 -
accuracy: 0.7829 - val_loss: 0.4953 - val_accuracy: 0.7588
Epoch 3/10
704/704 [=====] - 3s 4ms/step - loss: 0.3761 -
accuracy: 0.8350 - val_loss: 0.5902 - val_accuracy: 0.7060
Epoch 4/10
704/704 [=====] - 3s 4ms/step - loss: 0.3270 -
accuracy: 0.8644 - val_loss: 0.4398 - val_accuracy: 0.8104
Epoch 5/10
704/704 [=====] - 3s 4ms/step - loss: 0.2792 -
accuracy: 0.8837 - val_loss: 0.3534 - val_accuracy: 0.8392
Epoch 6/10
704/704 [=====] - 3s 4ms/step - loss: 0.2346 -
accuracy: 0.9051 - val_loss: 0.3127 - val_accuracy: 0.8580
Epoch 7/10
704/704 [=====] - 3s 4ms/step - loss: 0.1991 -
accuracy: 0.9179 - val_loss: 0.3108 - val_accuracy: 0.8676
Epoch 8/10
704/704 [=====] - 3s 4ms/step - loss: 0.1760 -
accuracy: 0.9324 - val_loss: 0.4270 - val_accuracy: 0.8044

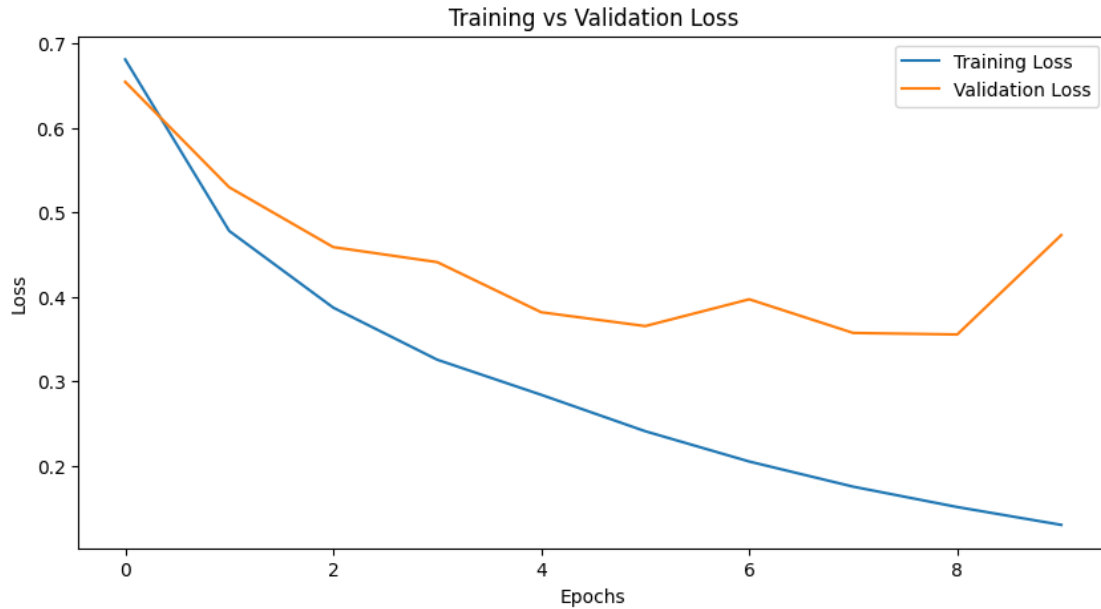
Epoch 9/10
704/704 [=====] - 3s 4ms/step - loss: 0.1465 -
accuracy: 0.9442 - val_loss: 0.3859 - val_accuracy: 0.8400
Epoch 10/10
704/704 [=====] - 3s 4ms/step - loss: 0.1185 -
accuracy: 0.9532 - val_loss: 0.4268 - val_accuracy: 0.8504
79/79 [=====] - 0s 1ms/step

Training Fold 10...

Epoch 1/10
704/704 [=====] - 6s 5ms/step - loss: 0.6757 -
accuracy: 0.6567 - val_loss: 0.8315 - val_accuracy: 0.6380
Epoch 2/10
704/704 [=====] - 3s 4ms/step - loss: 0.4706 -
accuracy: 0.7789 - val_loss: 0.5616 - val_accuracy: 0.6848
Epoch 3/10
704/704 [=====] - 3s 4ms/step - loss: 0.3870 -
accuracy: 0.8276 - val_loss: 0.4670 - val_accuracy: 0.7872
Epoch 4/10
704/704 [=====] - 3s 4ms/step - loss: 0.3269 -
accuracy: 0.8624 - val_loss: 0.3561 - val_accuracy: 0.8428
Epoch 5/10
704/704 [=====] - 3s 4ms/step - loss: 0.2749 -
accuracy: 0.8864 - val_loss: 0.3516 - val_accuracy: 0.8488
Epoch 6/10
704/704 [=====] - 3s 4ms/step - loss: 0.2460 -
accuracy: 0.8997 - val_loss: 0.3785 - val_accuracy: 0.8292
Epoch 7/10
704/704 [=====] - 3s 4ms/step - loss: 0.2090 -
accuracy: 0.9138 - val_loss: 0.7279 - val_accuracy: 0.7160
Epoch 8/10
704/704 [=====] - 3s 4ms/step - loss: 0.1743 -
accuracy: 0.9302 - val_loss: 0.3336 - val_accuracy: 0.8560
Epoch 9/10
704/704 [=====] - 3s 4ms/step - loss: 0.1486 -
accuracy: 0.9430 - val_loss: 0.3826 - val_accuracy: 0.8292
Epoch 10/10
704/704 [=====] - 3s 4ms/step - loss: 0.1384 -
accuracy: 0.9459 - val_loss: 0.4855 - val_accuracy: 0.8476
79/79 [=====] - 0s 1ms/step

Results

AUC: 0.942 \pm 0.010
Precision: 0.898 \pm 0.039
Recall: 0.789 \pm 0.078
F1-score: 0.836 \pm 0.030



2.1.1 with adjustments

```
[31]: #x
import tensorflow as tf
from tensorflow.keras.models import Sequential
from tensorflow.keras.layers import Conv2D, MaxPooling2D,
    ↳GlobalAveragePooling2D, Dense, Dropout, BatchNormalization
from tensorflow.keras.regularizers import l2
from tensorflow.keras.optimizers import AdamW
from sklearn.model_selection import StratifiedKFold
from sklearn.metrics import roc_auc_score, precision_score, recall_score,
    ↳f1_score
import numpy as np
import matplotlib.pyplot as plt

# Deep CNN Architecture with adjustments
def create_deep_cnn_model():
    model = Sequential([
        Conv2D(64, (3, 3), activation='relu', input_shape=(64, 64, 3),
            ↳kernel_regularizer=l2(1e-4)),
        BatchNormalization(),
        MaxPooling2D(pool_size=(2, 2)),

        Conv2D(128, (3, 3), activation='relu', kernel_regularizer=l2(1e-4)),
        BatchNormalization(),
        MaxPooling2D(pool_size=(2, 2)),
```

```

    Conv2D(256, (3, 3), activation='relu', kernel_regularizer=l2(1e-4)),
    BatchNormalization(),
    MaxPooling2D(pool_size=(2, 2)),

    Conv2D(512, (3, 3), activation='relu', kernel_regularizer=l2(1e-4)),
    BatchNormalization(),
    MaxPooling2D(pool_size=(2, 2)),

    GlobalAveragePooling2D(), # Replaces Flatten to reduce the number of
↪ parameters

    Dense(512, activation='relu', kernel_regularizer=l2(1e-4)),
    Dropout(0.6), # Increased dropout for regularization

    Dense(256, activation='relu', kernel_regularizer=l2(1e-4)),
    Dropout(0.5),

    Dense(2, activation='softmax')
])

return model

# Learning rate scheduler
def lr_scheduler(epoch, lr):
    if epoch < 10:
        return lr
    else:
        return lr * tf.math.exp(-0.1)

# Function to train and evaluate the deep CNN model
def train_deep_cnn_model():
    skf = StratifiedKFold(n_splits=10)
    auc_scores = []
    precision_scores = []
    recall_scores = []
    f1_scores = []

    # Para guardar las pérdidas de entrenamiento y validación
    training_losses = []
    validation_losses = []

    fold = 0
    for train_index, test_index in skf.split(train_cnn, y):
        fold += 1
        print(f"\nTraining Fold {fold}...")

```

```

X_train, X_test = train_cnn[train_index], train_cnn[test_index]
y_train, y_test = y_categorical[train_index], y_categorical[test_index]

model = create_deep_cnn_model()
model.compile(optimizer=AdamW(learning_rate=1e-4), # Changed optimizer_
↳ to AdamW
               loss='categorical_crossentropy', metrics=['accuracy'])

# Added learning rate scheduler
lr_callback = tf.keras.callbacks.LearningRateScheduler(lr_scheduler)

history = model.fit(X_train, y_train, validation_data=(X_test, y_test),
                    epochs=30, batch_size=32, callbacks=[lr_callback])

# Almacenar las pérdidas de entrenamiento y validación para cada época
training_losses.append(history.history['loss'])
validation_losses.append(history.history['val_loss'])

y_pred = model.predict(X_test)
y_pred_class = y_pred.argmax(axis=1)
y_true = y_test.argmax(axis=1)

auc = roc_auc_score(y_true, y_pred[:, 1])
precision = precision_score(y_true, y_pred_class)
recall = recall_score(y_true, y_pred_class)
f1 = f1_score(y_true, y_pred_class)

auc_scores.append(auc)
precision_scores.append(precision)
recall_scores.append(recall)
f1_scores.append(f1)

# Mostrar resultados promedio
print("\nResults")
print(f"AUC: {np.mean(auc_scores):.3f} ± {np.std(auc_scores):.3f}")
print(f"Precision: {np.mean(precision_scores):.3f} ± {np.
↳ std(precision_scores):.3f}")
print(f"Recall: {np.mean(recall_scores):.3f} ± {np.std(recall_scores):.3f}")
print(f"F1-score: {np.mean(f1_scores):.3f} ± {np.std(f1_scores):.3f}")

# Graficar pérdidas de entrenamiento y validación
plt.figure(figsize=(10, 5))
plt.plot(np.mean(training_losses, axis=0), label="Training Loss")
plt.plot(np.mean(validation_losses, axis=0), label="Validation Loss")
plt.title("Training vs Validation Loss")
plt.xlabel("Epochs")
plt.ylabel("Loss")

```

```

plt.legend()
plt.show()

# Optionally add pretrained ResNet model for transfer learning and fine-tuning
def create_resnet_finetune_model():
    base_model = tf.keras.applications.ResNet50(include_top=False,
    ↪input_shape=(64, 64, 3), weights='imagenet')
    base_model.trainable = False # Freeze the pretrained layers

    model = Sequential([
        base_model,
        GlobalAveragePooling2D(),
        Dense(512, activation='relu', kernel_regularizer=l2(1e-4)),
        Dropout(0.5),
        Dense(256, activation='relu', kernel_regularizer=l2(1e-4)),
        Dropout(0.5),
        Dense(2, activation='softmax')
    ])

    return model

# Train the deep CNN model
train_deep_cnn_model()

```

Training Fold 1...

Epoch 1/30

704/704 [=====] - 8s 6ms/step - loss: 0.9088 -
accuracy: 0.6115 - val_loss: 0.7328 - val_accuracy: 0.6812 - lr: 1.0000e-04

Epoch 2/30

704/704 [=====] - 4s 6ms/step - loss: 0.6876 -
accuracy: 0.7328 - val_loss: 0.6094 - val_accuracy: 0.7992 - lr: 1.0000e-04

Epoch 3/30

704/704 [=====] - 4s 5ms/step - loss: 0.6038 -
accuracy: 0.7833 - val_loss: 0.5897 - val_accuracy: 0.7880 - lr: 1.0000e-04

Epoch 4/30

704/704 [=====] - 4s 5ms/step - loss: 0.5364 -
accuracy: 0.8208 - val_loss: 0.5425 - val_accuracy: 0.8240 - lr: 1.0000e-04

Epoch 5/30

704/704 [=====] - 4s 5ms/step - loss: 0.4824 -
accuracy: 0.8539 - val_loss: 0.5088 - val_accuracy: 0.8360 - lr: 1.0000e-04

Epoch 6/30

704/704 [=====] - 4s 5ms/step - loss: 0.4203 -
accuracy: 0.8786 - val_loss: 0.6113 - val_accuracy: 0.7968 - lr: 1.0000e-04

Epoch 7/30

704/704 [=====] - 4s 5ms/step - loss: 0.3799 -
accuracy: 0.9008 - val_loss: 0.5028 - val_accuracy: 0.8388 - lr: 1.0000e-04

Epoch 8/30
704/704 [=====] - 4s 5ms/step - loss: 0.3280 -
accuracy: 0.9213 - val_loss: 0.5573 - val_accuracy: 0.8500 - lr: 1.0000e-04

Epoch 9/30
704/704 [=====] - 4s 5ms/step - loss: 0.2900 -
accuracy: 0.9369 - val_loss: 0.5297 - val_accuracy: 0.8504 - lr: 1.0000e-04

Epoch 10/30
704/704 [=====] - 4s 5ms/step - loss: 0.2532 -
accuracy: 0.9544 - val_loss: 0.5247 - val_accuracy: 0.8632 - lr: 1.0000e-04

Epoch 11/30
704/704 [=====] - 4s 5ms/step - loss: 0.2283 -
accuracy: 0.9634 - val_loss: 0.6627 - val_accuracy: 0.8516 - lr: 9.0484e-05

Epoch 12/30
704/704 [=====] - 4s 5ms/step - loss: 0.1978 -
accuracy: 0.9745 - val_loss: 0.6190 - val_accuracy: 0.8584 - lr: 8.1873e-05

Epoch 13/30
704/704 [=====] - 4s 5ms/step - loss: 0.1850 -
accuracy: 0.9794 - val_loss: 0.5745 - val_accuracy: 0.8772 - lr: 7.4082e-05

Epoch 14/30
704/704 [=====] - 4s 5ms/step - loss: 0.1737 -
accuracy: 0.9834 - val_loss: 0.6130 - val_accuracy: 0.8784 - lr: 6.7032e-05

Epoch 15/30
704/704 [=====] - 4s 5ms/step - loss: 0.1566 -
accuracy: 0.9889 - val_loss: 0.6794 - val_accuracy: 0.8716 - lr: 6.0653e-05

Epoch 16/30
704/704 [=====] - 4s 5ms/step - loss: 0.1549 -
accuracy: 0.9895 - val_loss: 0.7851 - val_accuracy: 0.8700 - lr: 5.4881e-05

Epoch 17/30
704/704 [=====] - 4s 5ms/step - loss: 0.1426 -
accuracy: 0.9932 - val_loss: 0.6898 - val_accuracy: 0.8748 - lr: 4.9659e-05

Epoch 18/30
704/704 [=====] - 4s 5ms/step - loss: 0.1405 -
accuracy: 0.9928 - val_loss: 0.8060 - val_accuracy: 0.8612 - lr: 4.4933e-05

Epoch 19/30
704/704 [=====] - 4s 5ms/step - loss: 0.1351 -
accuracy: 0.9938 - val_loss: 0.8792 - val_accuracy: 0.8576 - lr: 4.0657e-05

Epoch 20/30
704/704 [=====] - 4s 5ms/step - loss: 0.1290 -
accuracy: 0.9962 - val_loss: 0.8101 - val_accuracy: 0.8700 - lr: 3.6788e-05

Epoch 21/30
704/704 [=====] - 4s 5ms/step - loss: 0.1301 -
accuracy: 0.9946 - val_loss: 0.7563 - val_accuracy: 0.8772 - lr: 3.3287e-05

Epoch 22/30
704/704 [=====] - 4s 5ms/step - loss: 0.1236 -
accuracy: 0.9968 - val_loss: 0.9132 - val_accuracy: 0.8644 - lr: 3.0119e-05

Epoch 23/30
704/704 [=====] - 4s 5ms/step - loss: 0.1188 -
accuracy: 0.9977 - val_loss: 0.7857 - val_accuracy: 0.8724 - lr: 2.7253e-05

Epoch 24/30
704/704 [=====] - 4s 5ms/step - loss: 0.1159 -
accuracy: 0.9982 - val_loss: 0.8323 - val_accuracy: 0.8828 - lr: 2.4660e-05
Epoch 25/30
704/704 [=====] - 4s 5ms/step - loss: 0.1161 -
accuracy: 0.9978 - val_loss: 0.8750 - val_accuracy: 0.8648 - lr: 2.2313e-05
Epoch 26/30
704/704 [=====] - 4s 5ms/step - loss: 0.1135 -
accuracy: 0.9980 - val_loss: 0.8622 - val_accuracy: 0.8784 - lr: 2.0190e-05
Epoch 27/30
704/704 [=====] - 4s 5ms/step - loss: 0.1133 -
accuracy: 0.9976 - val_loss: 0.9328 - val_accuracy: 0.8760 - lr: 1.8268e-05
Epoch 28/30
704/704 [=====] - 4s 5ms/step - loss: 0.1108 -
accuracy: 0.9983 - val_loss: 0.8032 - val_accuracy: 0.8816 - lr: 1.6530e-05
Epoch 29/30
704/704 [=====] - 4s 5ms/step - loss: 0.1088 -
accuracy: 0.9988 - val_loss: 0.8788 - val_accuracy: 0.8780 - lr: 1.4957e-05
Epoch 30/30
704/704 [=====] - 4s 5ms/step - loss: 0.1068 -
accuracy: 0.9988 - val_loss: 0.8560 - val_accuracy: 0.8776 - lr: 1.3534e-05
79/79 [=====] - 0s 2ms/step

Training Fold 2...

Epoch 1/30
704/704 [=====] - 8s 6ms/step - loss: 0.9008 -
accuracy: 0.6127 - val_loss: 0.7288 - val_accuracy: 0.7008 - lr: 1.0000e-04
Epoch 2/30
704/704 [=====] - 4s 5ms/step - loss: 0.7159 -
accuracy: 0.7088 - val_loss: 0.7522 - val_accuracy: 0.6656 - lr: 1.0000e-04
Epoch 3/30
704/704 [=====] - 4s 5ms/step - loss: 0.6103 -
accuracy: 0.7776 - val_loss: 0.5491 - val_accuracy: 0.8160 - lr: 1.0000e-04
Epoch 4/30
704/704 [=====] - 4s 5ms/step - loss: 0.5379 -
accuracy: 0.8186 - val_loss: 0.5474 - val_accuracy: 0.8152 - lr: 1.0000e-04
Epoch 5/30
704/704 [=====] - 4s 6ms/step - loss: 0.4818 -
accuracy: 0.8502 - val_loss: 0.4781 - val_accuracy: 0.8556 - lr: 1.0000e-04
Epoch 6/30
704/704 [=====] - 4s 5ms/step - loss: 0.4278 -
accuracy: 0.8774 - val_loss: 0.4782 - val_accuracy: 0.8476 - lr: 1.0000e-04
Epoch 7/30
704/704 [=====] - 4s 5ms/step - loss: 0.3680 -
accuracy: 0.9067 - val_loss: 0.5305 - val_accuracy: 0.8292 - lr: 1.0000e-04
Epoch 8/30
704/704 [=====] - 4s 5ms/step - loss: 0.3232 -
accuracy: 0.9248 - val_loss: 0.5161 - val_accuracy: 0.8364 - lr: 1.0000e-04

Epoch 9/30
704/704 [=====] - 4s 5ms/step - loss: 0.2765 -
accuracy: 0.9441 - val_loss: 0.4709 - val_accuracy: 0.8588 - lr: 1.0000e-04

Epoch 10/30
704/704 [=====] - 4s 5ms/step - loss: 0.2433 -
accuracy: 0.9565 - val_loss: 0.6339 - val_accuracy: 0.8260 - lr: 1.0000e-04

Epoch 11/30
704/704 [=====] - 4s 5ms/step - loss: 0.2170 -
accuracy: 0.9672 - val_loss: 0.5423 - val_accuracy: 0.8652 - lr: 9.0484e-05

Epoch 12/30
704/704 [=====] - 4s 5ms/step - loss: 0.1903 -
accuracy: 0.9782 - val_loss: 0.5945 - val_accuracy: 0.8640 - lr: 8.1873e-05

Epoch 13/30
704/704 [=====] - 4s 5ms/step - loss: 0.1744 -
accuracy: 0.9843 - val_loss: 0.5735 - val_accuracy: 0.8700 - lr: 7.4082e-05

Epoch 14/30
704/704 [=====] - 4s 5ms/step - loss: 0.1679 -
accuracy: 0.9856 - val_loss: 0.6126 - val_accuracy: 0.8692 - lr: 6.7032e-05

Epoch 15/30
704/704 [=====] - 4s 5ms/step - loss: 0.1547 -
accuracy: 0.9902 - val_loss: 0.6282 - val_accuracy: 0.8692 - lr: 6.0653e-05

Epoch 16/30
704/704 [=====] - 4s 5ms/step - loss: 0.1477 -
accuracy: 0.9922 - val_loss: 0.6884 - val_accuracy: 0.8720 - lr: 5.4881e-05

Epoch 17/30
704/704 [=====] - 4s 5ms/step - loss: 0.1459 -
accuracy: 0.9910 - val_loss: 0.6941 - val_accuracy: 0.8740 - lr: 4.9659e-05

Epoch 18/30
704/704 [=====] - 4s 5ms/step - loss: 0.1340 -
accuracy: 0.9952 - val_loss: 0.6706 - val_accuracy: 0.8764 - lr: 4.4933e-05

Epoch 19/30
704/704 [=====] - 4s 5ms/step - loss: 0.1322 -
accuracy: 0.9946 - val_loss: 0.9604 - val_accuracy: 0.8476 - lr: 4.0657e-05

Epoch 20/30
704/704 [=====] - 4s 5ms/step - loss: 0.1289 -
accuracy: 0.9957 - val_loss: 0.6877 - val_accuracy: 0.8688 - lr: 3.6788e-05

Epoch 21/30
704/704 [=====] - 4s 5ms/step - loss: 0.1238 -
accuracy: 0.9972 - val_loss: 0.7370 - val_accuracy: 0.8780 - lr: 3.3287e-05

Epoch 22/30
704/704 [=====] - 4s 5ms/step - loss: 0.1195 -
accuracy: 0.9976 - val_loss: 0.7487 - val_accuracy: 0.8700 - lr: 3.0119e-05

Epoch 23/30
704/704 [=====] - 4s 5ms/step - loss: 0.1182 -
accuracy: 0.9974 - val_loss: 0.7681 - val_accuracy: 0.8784 - lr: 2.7253e-05

Epoch 24/30
704/704 [=====] - 4s 5ms/step - loss: 0.1135 -
accuracy: 0.9985 - val_loss: 0.8396 - val_accuracy: 0.8736 - lr: 2.4660e-05

Epoch 25/30
704/704 [=====] - 4s 6ms/step - loss: 0.1144 -
accuracy: 0.9975 - val_loss: 0.8400 - val_accuracy: 0.8768 - lr: 2.2313e-05
Epoch 26/30
704/704 [=====] - 4s 6ms/step - loss: 0.1102 -
accuracy: 0.9985 - val_loss: 0.8584 - val_accuracy: 0.8780 - lr: 2.0190e-05
Epoch 27/30
704/704 [=====] - 4s 5ms/step - loss: 0.1093 -
accuracy: 0.9984 - val_loss: 0.8017 - val_accuracy: 0.8808 - lr: 1.8268e-05
Epoch 28/30
704/704 [=====] - 4s 5ms/step - loss: 0.1081 -
accuracy: 0.9984 - val_loss: 0.8069 - val_accuracy: 0.8780 - lr: 1.6530e-05
Epoch 29/30
704/704 [=====] - 4s 5ms/step - loss: 0.1043 -
accuracy: 0.9992 - val_loss: 0.8557 - val_accuracy: 0.8784 - lr: 1.4957e-05
Epoch 30/30
704/704 [=====] - 4s 5ms/step - loss: 0.1040 -
accuracy: 0.9989 - val_loss: 0.8293 - val_accuracy: 0.8792 - lr: 1.3534e-05
79/79 [=====] - 0s 2ms/step

Training Fold 3...

Epoch 1/30
704/704 [=====] - 7s 6ms/step - loss: 0.8989 -
accuracy: 0.6029 - val_loss: 0.7318 - val_accuracy: 0.7028 - lr: 1.0000e-04
Epoch 2/30
704/704 [=====] - 4s 5ms/step - loss: 0.7100 -
accuracy: 0.7138 - val_loss: 0.6287 - val_accuracy: 0.7740 - lr: 1.0000e-04
Epoch 3/30
704/704 [=====] - 4s 5ms/step - loss: 0.6156 -
accuracy: 0.7768 - val_loss: 0.5848 - val_accuracy: 0.7884 - lr: 1.0000e-04
Epoch 4/30
704/704 [=====] - 4s 5ms/step - loss: 0.5490 -
accuracy: 0.8149 - val_loss: 0.5280 - val_accuracy: 0.8280 - lr: 1.0000e-04
Epoch 5/30
704/704 [=====] - 4s 5ms/step - loss: 0.4920 -
accuracy: 0.8461 - val_loss: 0.5022 - val_accuracy: 0.8360 - lr: 1.0000e-04
Epoch 6/30
704/704 [=====] - 4s 5ms/step - loss: 0.4413 -
accuracy: 0.8720 - val_loss: 0.4698 - val_accuracy: 0.8564 - lr: 1.0000e-04
Epoch 7/30
704/704 [=====] - 4s 5ms/step - loss: 0.3918 -
accuracy: 0.8948 - val_loss: 0.4599 - val_accuracy: 0.8656 - lr: 1.0000e-04
Epoch 8/30
704/704 [=====] - 4s 5ms/step - loss: 0.3468 -
accuracy: 0.9138 - val_loss: 0.4938 - val_accuracy: 0.8424 - lr: 1.0000e-04
Epoch 9/30
704/704 [=====] - 4s 5ms/step - loss: 0.2977 -
accuracy: 0.9370 - val_loss: 0.6171 - val_accuracy: 0.8128 - lr: 1.0000e-04

Epoch 10/30
704/704 [=====] - 4s 5ms/step - loss: 0.2623 -
accuracy: 0.9510 - val_loss: 0.4556 - val_accuracy: 0.8700 - lr: 1.0000e-04

Epoch 11/30
704/704 [=====] - 4s 5ms/step - loss: 0.2245 -
accuracy: 0.9659 - val_loss: 0.5123 - val_accuracy: 0.8656 - lr: 9.0484e-05

Epoch 12/30
704/704 [=====] - 4s 5ms/step - loss: 0.2047 -
accuracy: 0.9710 - val_loss: 0.5429 - val_accuracy: 0.8680 - lr: 8.1873e-05

Epoch 13/30
704/704 [=====] - 4s 5ms/step - loss: 0.1893 -
accuracy: 0.9776 - val_loss: 0.4621 - val_accuracy: 0.8916 - lr: 7.4082e-05

Epoch 14/30
704/704 [=====] - 4s 5ms/step - loss: 0.1675 -
accuracy: 0.9857 - val_loss: 0.8664 - val_accuracy: 0.8412 - lr: 6.7032e-05

Epoch 15/30
704/704 [=====] - 4s 5ms/step - loss: 0.1591 -
accuracy: 0.9884 - val_loss: 0.5281 - val_accuracy: 0.8856 - lr: 6.0653e-05

Epoch 16/30
704/704 [=====] - 4s 5ms/step - loss: 0.1545 -
accuracy: 0.9883 - val_loss: 0.5840 - val_accuracy: 0.8812 - lr: 5.4881e-05

Epoch 17/30
704/704 [=====] - 4s 5ms/step - loss: 0.1441 -
accuracy: 0.9924 - val_loss: 0.6352 - val_accuracy: 0.8856 - lr: 4.9659e-05

Epoch 18/30
704/704 [=====] - 4s 5ms/step - loss: 0.1409 -
accuracy: 0.9927 - val_loss: 0.5428 - val_accuracy: 0.8976 - lr: 4.4933e-05

Epoch 19/30
704/704 [=====] - 4s 5ms/step - loss: 0.1303 -
accuracy: 0.9956 - val_loss: 0.5903 - val_accuracy: 0.8928 - lr: 4.0657e-05

Epoch 20/30
704/704 [=====] - 4s 5ms/step - loss: 0.1268 -
accuracy: 0.9960 - val_loss: 0.7610 - val_accuracy: 0.8628 - lr: 3.6788e-05

Epoch 21/30
704/704 [=====] - 4s 5ms/step - loss: 0.1289 -
accuracy: 0.9946 - val_loss: 0.6298 - val_accuracy: 0.8864 - lr: 3.3287e-05

Epoch 22/30
704/704 [=====] - 4s 5ms/step - loss: 0.1287 -
accuracy: 0.9945 - val_loss: 0.6272 - val_accuracy: 0.8924 - lr: 3.0119e-05

Epoch 23/30
704/704 [=====] - 4s 5ms/step - loss: 0.1176 -
accuracy: 0.9979 - val_loss: 0.6486 - val_accuracy: 0.8916 - lr: 2.7253e-05

Epoch 24/30
704/704 [=====] - 4s 5ms/step - loss: 0.1149 -
accuracy: 0.9982 - val_loss: 0.6671 - val_accuracy: 0.8948 - lr: 2.4660e-05

Epoch 25/30
704/704 [=====] - 4s 5ms/step - loss: 0.1142 -
accuracy: 0.9980 - val_loss: 0.6406 - val_accuracy: 0.8968 - lr: 2.2313e-05

Epoch 26/30
704/704 [=====] - 4s 5ms/step - loss: 0.1112 -
accuracy: 0.9991 - val_loss: 0.6720 - val_accuracy: 0.8968 - lr: 2.0190e-05
Epoch 27/30
704/704 [=====] - 4s 5ms/step - loss: 0.1105 -
accuracy: 0.9985 - val_loss: 0.6891 - val_accuracy: 0.8980 - lr: 1.8268e-05
Epoch 28/30
704/704 [=====] - 4s 5ms/step - loss: 0.1093 -
accuracy: 0.9984 - val_loss: 0.6924 - val_accuracy: 0.8952 - lr: 1.6530e-05
Epoch 29/30
704/704 [=====] - 4s 5ms/step - loss: 0.1075 -
accuracy: 0.9984 - val_loss: 0.6485 - val_accuracy: 0.9040 - lr: 1.4957e-05
Epoch 30/30
704/704 [=====] - 4s 5ms/step - loss: 0.1061 -
accuracy: 0.9988 - val_loss: 0.6819 - val_accuracy: 0.9004 - lr: 1.3534e-05
79/79 [=====] - 0s 2ms/step

Training Fold 4...

Epoch 1/30
704/704 [=====] - 7s 6ms/step - loss: 0.8950 -
accuracy: 0.6198 - val_loss: 0.7153 - val_accuracy: 0.7172 - lr: 1.0000e-04
Epoch 2/30
704/704 [=====] - 4s 5ms/step - loss: 0.6959 -
accuracy: 0.7288 - val_loss: 0.6273 - val_accuracy: 0.7676 - lr: 1.0000e-04
Epoch 3/30
704/704 [=====] - 4s 5ms/step - loss: 0.6083 -
accuracy: 0.7825 - val_loss: 0.5727 - val_accuracy: 0.8064 - lr: 1.0000e-04
Epoch 4/30
704/704 [=====] - 4s 5ms/step - loss: 0.5379 -
accuracy: 0.8236 - val_loss: 0.5440 - val_accuracy: 0.8148 - lr: 1.0000e-04
Epoch 5/30
704/704 [=====] - 4s 5ms/step - loss: 0.4850 -
accuracy: 0.8514 - val_loss: 0.5142 - val_accuracy: 0.8300 - lr: 1.0000e-04
Epoch 6/30
704/704 [=====] - 4s 5ms/step - loss: 0.4284 -
accuracy: 0.8765 - val_loss: 0.4850 - val_accuracy: 0.8476 - lr: 1.0000e-04
Epoch 7/30
704/704 [=====] - 4s 5ms/step - loss: 0.3730 -
accuracy: 0.9018 - val_loss: 0.4473 - val_accuracy: 0.8600 - lr: 1.0000e-04
Epoch 8/30
704/704 [=====] - 4s 5ms/step - loss: 0.3212 -
accuracy: 0.9254 - val_loss: 0.4850 - val_accuracy: 0.8560 - lr: 1.0000e-04
Epoch 9/30
704/704 [=====] - 4s 5ms/step - loss: 0.2833 -
accuracy: 0.9418 - val_loss: 0.5397 - val_accuracy: 0.8324 - lr: 1.0000e-04
Epoch 10/30
704/704 [=====] - 4s 5ms/step - loss: 0.2482 -
accuracy: 0.9569 - val_loss: 0.5148 - val_accuracy: 0.8668 - lr: 1.0000e-04

Epoch 11/30
704/704 [=====] - 4s 5ms/step - loss: 0.2164 -
accuracy: 0.9676 - val_loss: 0.5270 - val_accuracy: 0.8716 - lr: 9.0484e-05

Epoch 12/30
704/704 [=====] - 4s 5ms/step - loss: 0.1966 -
accuracy: 0.9751 - val_loss: 0.5905 - val_accuracy: 0.8596 - lr: 8.1873e-05

Epoch 13/30
704/704 [=====] - 4s 5ms/step - loss: 0.1779 -
accuracy: 0.9824 - val_loss: 0.6627 - val_accuracy: 0.8680 - lr: 7.4082e-05

Epoch 14/30
704/704 [=====] - 4s 5ms/step - loss: 0.1695 -
accuracy: 0.9845 - val_loss: 0.5938 - val_accuracy: 0.8732 - lr: 6.7032e-05

Epoch 15/30
704/704 [=====] - 4s 5ms/step - loss: 0.1550 -
accuracy: 0.9897 - val_loss: 0.6235 - val_accuracy: 0.8768 - lr: 6.0653e-05

Epoch 16/30
704/704 [=====] - 4s 5ms/step - loss: 0.1470 -
accuracy: 0.9918 - val_loss: 0.6422 - val_accuracy: 0.8804 - lr: 5.4881e-05

Epoch 17/30
704/704 [=====] - 4s 5ms/step - loss: 0.1421 -
accuracy: 0.9925 - val_loss: 0.9175 - val_accuracy: 0.8368 - lr: 4.9659e-05

Epoch 18/30
704/704 [=====] - 4s 5ms/step - loss: 0.1436 -
accuracy: 0.9915 - val_loss: 0.6061 - val_accuracy: 0.8832 - lr: 4.4933e-05

Epoch 19/30
704/704 [=====] - 4s 5ms/step - loss: 0.1314 -
accuracy: 0.9951 - val_loss: 0.7530 - val_accuracy: 0.8736 - lr: 4.0657e-05

Epoch 20/30
704/704 [=====] - 4s 5ms/step - loss: 0.1283 -
accuracy: 0.9955 - val_loss: 0.6962 - val_accuracy: 0.8736 - lr: 3.6788e-05

Epoch 21/30
704/704 [=====] - 4s 5ms/step - loss: 0.1243 -
accuracy: 0.9964 - val_loss: 0.6783 - val_accuracy: 0.8820 - lr: 3.3287e-05

Epoch 22/30
704/704 [=====] - 4s 5ms/step - loss: 0.1188 -
accuracy: 0.9979 - val_loss: 0.7143 - val_accuracy: 0.8892 - lr: 3.0119e-05

Epoch 23/30
704/704 [=====] - 4s 5ms/step - loss: 0.1196 -
accuracy: 0.9967 - val_loss: 0.7428 - val_accuracy: 0.8780 - lr: 2.7253e-05

Epoch 24/30
704/704 [=====] - 4s 5ms/step - loss: 0.1134 -
accuracy: 0.9986 - val_loss: 0.8009 - val_accuracy: 0.8792 - lr: 2.4660e-05

Epoch 25/30
704/704 [=====] - 4s 5ms/step - loss: 0.1147 -
accuracy: 0.9976 - val_loss: 0.9198 - val_accuracy: 0.8680 - lr: 2.2313e-05

Epoch 26/30
704/704 [=====] - 4s 5ms/step - loss: 0.1103 -
accuracy: 0.9985 - val_loss: 0.9432 - val_accuracy: 0.8716 - lr: 2.0190e-05

Epoch 27/30
704/704 [=====] - 4s 5ms/step - loss: 0.1081 -
accuracy: 0.9989 - val_loss: 0.7787 - val_accuracy: 0.8872 - lr: 1.8268e-05
Epoch 28/30
704/704 [=====] - 4s 5ms/step - loss: 0.1059 -
accuracy: 0.9989 - val_loss: 0.8026 - val_accuracy: 0.8860 - lr: 1.6530e-05
Epoch 29/30
704/704 [=====] - 4s 5ms/step - loss: 0.1065 -
accuracy: 0.9985 - val_loss: 0.8192 - val_accuracy: 0.8808 - lr: 1.4957e-05
Epoch 30/30
704/704 [=====] - 4s 5ms/step - loss: 0.1057 -
accuracy: 0.9985 - val_loss: 0.8196 - val_accuracy: 0.8816 - lr: 1.3534e-05
79/79 [=====] - 0s 2ms/step

Training Fold 5...

Epoch 1/30
704/704 [=====] - 7s 6ms/step - loss: 0.8957 -
accuracy: 0.6067 - val_loss: 0.7846 - val_accuracy: 0.6220 - lr: 1.0000e-04
Epoch 2/30
704/704 [=====] - 4s 5ms/step - loss: 0.6980 -
accuracy: 0.7226 - val_loss: 0.6074 - val_accuracy: 0.7844 - lr: 1.0000e-04
Epoch 3/30
704/704 [=====] - 4s 5ms/step - loss: 0.6003 -
accuracy: 0.7859 - val_loss: 0.6084 - val_accuracy: 0.7756 - lr: 1.0000e-04
Epoch 4/30
704/704 [=====] - 4s 6ms/step - loss: 0.5332 -
accuracy: 0.8251 - val_loss: 0.5169 - val_accuracy: 0.8456 - lr: 1.0000e-04
Epoch 5/30
704/704 [=====] - 4s 5ms/step - loss: 0.4795 -
accuracy: 0.8515 - val_loss: 0.5500 - val_accuracy: 0.8208 - lr: 1.0000e-04
Epoch 6/30
704/704 [=====] - 4s 5ms/step - loss: 0.4195 -
accuracy: 0.8783 - val_loss: 0.4632 - val_accuracy: 0.8560 - lr: 1.0000e-04
Epoch 7/30
704/704 [=====] - 4s 5ms/step - loss: 0.3690 -
accuracy: 0.9030 - val_loss: 0.5529 - val_accuracy: 0.8300 - lr: 1.0000e-04
Epoch 8/30
704/704 [=====] - 4s 5ms/step - loss: 0.3144 -
accuracy: 0.9273 - val_loss: 0.4439 - val_accuracy: 0.8692 - lr: 1.0000e-04
Epoch 9/30
704/704 [=====] - 4s 5ms/step - loss: 0.2814 -
accuracy: 0.9424 - val_loss: 0.5507 - val_accuracy: 0.8392 - lr: 1.0000e-04
Epoch 10/30
704/704 [=====] - 4s 5ms/step - loss: 0.2496 -
accuracy: 0.9541 - val_loss: 0.7071 - val_accuracy: 0.8152 - lr: 1.0000e-04
Epoch 11/30
704/704 [=====] - 4s 5ms/step - loss: 0.2197 -
accuracy: 0.9677 - val_loss: 0.6630 - val_accuracy: 0.8376 - lr: 9.0484e-05

Epoch 12/30
704/704 [=====] - 4s 5ms/step - loss: 0.1932 -
accuracy: 0.9765 - val_loss: 0.5775 - val_accuracy: 0.8680 - lr: 8.1873e-05

Epoch 13/30
704/704 [=====] - 4s 5ms/step - loss: 0.1827 -
accuracy: 0.9804 - val_loss: 0.6965 - val_accuracy: 0.8544 - lr: 7.4082e-05

Epoch 14/30
704/704 [=====] - 4s 5ms/step - loss: 0.1661 -
accuracy: 0.9850 - val_loss: 0.6687 - val_accuracy: 0.8724 - lr: 6.7032e-05

Epoch 15/30
704/704 [=====] - 4s 5ms/step - loss: 0.1559 -
accuracy: 0.9888 - val_loss: 0.7082 - val_accuracy: 0.8748 - lr: 6.0653e-05

Epoch 16/30
704/704 [=====] - 4s 5ms/step - loss: 0.1496 -
accuracy: 0.9904 - val_loss: 0.8291 - val_accuracy: 0.8624 - lr: 5.4881e-05

Epoch 17/30
704/704 [=====] - 4s 5ms/step - loss: 0.1395 -
accuracy: 0.9932 - val_loss: 0.7247 - val_accuracy: 0.8632 - lr: 4.9659e-05

Epoch 18/30
704/704 [=====] - 4s 5ms/step - loss: 0.1308 -
accuracy: 0.9961 - val_loss: 0.6953 - val_accuracy: 0.8824 - lr: 4.4933e-05

Epoch 19/30
704/704 [=====] - 4s 5ms/step - loss: 0.1363 -
accuracy: 0.9932 - val_loss: 0.6522 - val_accuracy: 0.8848 - lr: 4.0657e-05

Epoch 20/30
704/704 [=====] - 4s 5ms/step - loss: 0.1268 -
accuracy: 0.9961 - val_loss: 0.7067 - val_accuracy: 0.8836 - lr: 3.6788e-05

Epoch 21/30
704/704 [=====] - 4s 5ms/step - loss: 0.1246 -
accuracy: 0.9963 - val_loss: 0.7310 - val_accuracy: 0.8768 - lr: 3.3287e-05

Epoch 22/30
704/704 [=====] - 4s 5ms/step - loss: 0.1233 -
accuracy: 0.9960 - val_loss: 0.7070 - val_accuracy: 0.8756 - lr: 3.0119e-05

Epoch 23/30
704/704 [=====] - 4s 5ms/step - loss: 0.1177 -
accuracy: 0.9973 - val_loss: 0.7476 - val_accuracy: 0.8808 - lr: 2.7253e-05

Epoch 24/30
704/704 [=====] - 4s 5ms/step - loss: 0.1147 -
accuracy: 0.9978 - val_loss: 0.8044 - val_accuracy: 0.8732 - lr: 2.4660e-05

Epoch 25/30
704/704 [=====] - 4s 5ms/step - loss: 0.1150 -
accuracy: 0.9975 - val_loss: 0.7964 - val_accuracy: 0.8708 - lr: 2.2313e-05

Epoch 26/30
704/704 [=====] - 4s 5ms/step - loss: 0.1113 -
accuracy: 0.9982 - val_loss: 0.7869 - val_accuracy: 0.8832 - lr: 2.0190e-05

Epoch 27/30
704/704 [=====] - 4s 5ms/step - loss: 0.1098 -
accuracy: 0.9986 - val_loss: 0.7811 - val_accuracy: 0.8840 - lr: 1.8268e-05

Epoch 28/30
704/704 [=====] - 4s 5ms/step - loss: 0.1072 -
accuracy: 0.9991 - val_loss: 0.7698 - val_accuracy: 0.8748 - lr: 1.6530e-05
Epoch 29/30
704/704 [=====] - 4s 5ms/step - loss: 0.1051 -
accuracy: 0.9990 - val_loss: 0.8266 - val_accuracy: 0.8768 - lr: 1.4957e-05
Epoch 30/30
704/704 [=====] - 4s 5ms/step - loss: 0.1043 -
accuracy: 0.9991 - val_loss: 0.8225 - val_accuracy: 0.8776 - lr: 1.3534e-05
79/79 [=====] - 0s 2ms/step

Training Fold 6...

Epoch 1/30
704/704 [=====] - 7s 6ms/step - loss: 0.8878 -
accuracy: 0.6040 - val_loss: 0.7222 - val_accuracy: 0.7040 - lr: 1.0000e-04
Epoch 2/30
704/704 [=====] - 4s 5ms/step - loss: 0.7068 -
accuracy: 0.7150 - val_loss: 0.6219 - val_accuracy: 0.7708 - lr: 1.0000e-04
Epoch 3/30
704/704 [=====] - 4s 5ms/step - loss: 0.6064 -
accuracy: 0.7809 - val_loss: 0.5742 - val_accuracy: 0.7984 - lr: 1.0000e-04
Epoch 4/30
704/704 [=====] - 4s 5ms/step - loss: 0.5397 -
accuracy: 0.8194 - val_loss: 0.5596 - val_accuracy: 0.8080 - lr: 1.0000e-04
Epoch 5/30
704/704 [=====] - 5s 6ms/step - loss: 0.4916 -
accuracy: 0.8432 - val_loss: 0.4915 - val_accuracy: 0.8468 - lr: 1.0000e-04
Epoch 6/30
704/704 [=====] - 4s 6ms/step - loss: 0.4360 -
accuracy: 0.8729 - val_loss: 0.4619 - val_accuracy: 0.8568 - lr: 1.0000e-04
Epoch 7/30
704/704 [=====] - 4s 5ms/step - loss: 0.3846 -
accuracy: 0.8970 - val_loss: 0.4605 - val_accuracy: 0.8584 - lr: 1.0000e-04
Epoch 8/30
704/704 [=====] - 4s 5ms/step - loss: 0.3333 -
accuracy: 0.9208 - val_loss: 0.4482 - val_accuracy: 0.8628 - lr: 1.0000e-04
Epoch 9/30
704/704 [=====] - 4s 5ms/step - loss: 0.2870 -
accuracy: 0.9397 - val_loss: 0.5527 - val_accuracy: 0.8508 - lr: 1.0000e-04
Epoch 10/30
704/704 [=====] - 4s 5ms/step - loss: 0.2508 -
accuracy: 0.9564 - val_loss: 0.5046 - val_accuracy: 0.8648 - lr: 1.0000e-04
Epoch 11/30
704/704 [=====] - 4s 5ms/step - loss: 0.2219 -
accuracy: 0.9663 - val_loss: 0.5148 - val_accuracy: 0.8744 - lr: 9.0484e-05
Epoch 12/30
704/704 [=====] - 4s 5ms/step - loss: 0.1986 -
accuracy: 0.9744 - val_loss: 0.5517 - val_accuracy: 0.8772 - lr: 8.1873e-05

Epoch 13/30
704/704 [=====] - 4s 5ms/step - loss: 0.1807 -
accuracy: 0.9806 - val_loss: 0.7657 - val_accuracy: 0.8384 - lr: 7.4082e-05

Epoch 14/30
704/704 [=====] - 4s 5ms/step - loss: 0.1733 -
accuracy: 0.9831 - val_loss: 0.5974 - val_accuracy: 0.8848 - lr: 6.7032e-05

Epoch 15/30
704/704 [=====] - 4s 5ms/step - loss: 0.1637 -
accuracy: 0.9864 - val_loss: 0.5487 - val_accuracy: 0.8856 - lr: 6.0653e-05

Epoch 16/30
704/704 [=====] - 4s 5ms/step - loss: 0.1449 -
accuracy: 0.9917 - val_loss: 0.6681 - val_accuracy: 0.8880 - lr: 5.4881e-05

Epoch 17/30
704/704 [=====] - 4s 5ms/step - loss: 0.1441 -
accuracy: 0.9916 - val_loss: 0.6749 - val_accuracy: 0.8840 - lr: 4.9659e-05

Epoch 18/30
704/704 [=====] - 4s 5ms/step - loss: 0.1369 -
accuracy: 0.9934 - val_loss: 0.7578 - val_accuracy: 0.8696 - lr: 4.4933e-05

Epoch 19/30
704/704 [=====] - 4s 5ms/step - loss: 0.1341 -
accuracy: 0.9938 - val_loss: 0.6768 - val_accuracy: 0.8836 - lr: 4.0657e-05

Epoch 20/30
704/704 [=====] - 4s 5ms/step - loss: 0.1263 -
accuracy: 0.9963 - val_loss: 0.6847 - val_accuracy: 0.8920 - lr: 3.6788e-05

Epoch 21/30
704/704 [=====] - 4s 5ms/step - loss: 0.1240 -
accuracy: 0.9960 - val_loss: 0.7563 - val_accuracy: 0.8864 - lr: 3.3287e-05

Epoch 22/30
704/704 [=====] - 4s 5ms/step - loss: 0.1223 -
accuracy: 0.9962 - val_loss: 0.6841 - val_accuracy: 0.8936 - lr: 3.0119e-05

Epoch 23/30
704/704 [=====] - 4s 5ms/step - loss: 0.1207 -
accuracy: 0.9961 - val_loss: 0.6971 - val_accuracy: 0.8872 - lr: 2.7253e-05

Epoch 24/30
704/704 [=====] - 4s 5ms/step - loss: 0.1190 -
accuracy: 0.9963 - val_loss: 0.6882 - val_accuracy: 0.8892 - lr: 2.4660e-05

Epoch 25/30
704/704 [=====] - 4s 5ms/step - loss: 0.1140 -
accuracy: 0.9979 - val_loss: 0.6978 - val_accuracy: 0.8916 - lr: 2.2313e-05

Epoch 26/30
704/704 [=====] - 4s 5ms/step - loss: 0.1114 -
accuracy: 0.9981 - val_loss: 0.7224 - val_accuracy: 0.8844 - lr: 2.0190e-05

Epoch 27/30
704/704 [=====] - 4s 5ms/step - loss: 0.1087 -
accuracy: 0.9990 - val_loss: 0.7612 - val_accuracy: 0.8912 - lr: 1.8268e-05

Epoch 28/30
704/704 [=====] - 4s 5ms/step - loss: 0.1075 -
accuracy: 0.9989 - val_loss: 0.7711 - val_accuracy: 0.8892 - lr: 1.6530e-05

Epoch 29/30
704/704 [=====] - 4s 5ms/step - loss: 0.1067 -
accuracy: 0.9987 - val_loss: 0.7702 - val_accuracy: 0.8924 - lr: 1.4957e-05
Epoch 30/30
704/704 [=====] - 4s 5ms/step - loss: 0.1046 -
accuracy: 0.9991 - val_loss: 0.7653 - val_accuracy: 0.8948 - lr: 1.3534e-05
79/79 [=====] - 0s 1ms/step

Training Fold 7...

Epoch 1/30
704/704 [=====] - 7s 6ms/step - loss: 0.9019 -
accuracy: 0.6224 - val_loss: 0.7233 - val_accuracy: 0.6920 - lr: 1.0000e-04
Epoch 2/30
704/704 [=====] - 4s 5ms/step - loss: 0.6884 -
accuracy: 0.7298 - val_loss: 0.6332 - val_accuracy: 0.7648 - lr: 1.0000e-04
Epoch 3/30
704/704 [=====] - 4s 5ms/step - loss: 0.6028 -
accuracy: 0.7846 - val_loss: 0.5705 - val_accuracy: 0.8024 - lr: 1.0000e-04
Epoch 4/30
704/704 [=====] - 4s 5ms/step - loss: 0.5398 -
accuracy: 0.8205 - val_loss: 0.5203 - val_accuracy: 0.8260 - lr: 1.0000e-04
Epoch 5/30
704/704 [=====] - 4s 5ms/step - loss: 0.4901 -
accuracy: 0.8471 - val_loss: 0.4804 - val_accuracy: 0.8464 - lr: 1.0000e-04
Epoch 6/30
704/704 [=====] - 4s 5ms/step - loss: 0.4343 -
accuracy: 0.8734 - val_loss: 0.5318 - val_accuracy: 0.8220 - lr: 1.0000e-04
Epoch 7/30
704/704 [=====] - 4s 5ms/step - loss: 0.3855 -
accuracy: 0.8965 - val_loss: 0.4921 - val_accuracy: 0.8404 - lr: 1.0000e-04
Epoch 8/30
704/704 [=====] - 4s 5ms/step - loss: 0.3315 -
accuracy: 0.9211 - val_loss: 0.4862 - val_accuracy: 0.8496 - lr: 1.0000e-04
Epoch 9/30
704/704 [=====] - 4s 5ms/step - loss: 0.2966 -
accuracy: 0.9360 - val_loss: 0.5053 - val_accuracy: 0.8548 - lr: 1.0000e-04
Epoch 10/30
704/704 [=====] - 4s 5ms/step - loss: 0.2621 -
accuracy: 0.9497 - val_loss: 0.5942 - val_accuracy: 0.8308 - lr: 1.0000e-04
Epoch 11/30
704/704 [=====] - 4s 5ms/step - loss: 0.2277 -
accuracy: 0.9635 - val_loss: 0.5390 - val_accuracy: 0.8592 - lr: 9.0484e-05
Epoch 12/30
704/704 [=====] - 4s 5ms/step - loss: 0.2028 -
accuracy: 0.9728 - val_loss: 1.0018 - val_accuracy: 0.8076 - lr: 8.1873e-05
Epoch 13/30
704/704 [=====] - 4s 5ms/step - loss: 0.1825 -
accuracy: 0.9802 - val_loss: 0.5529 - val_accuracy: 0.8740 - lr: 7.4082e-05

Epoch 14/30
704/704 [=====] - 4s 5ms/step - loss: 0.1680 -
accuracy: 0.9853 - val_loss: 0.6305 - val_accuracy: 0.8740 - lr: 6.7032e-05

Epoch 15/30
704/704 [=====] - 4s 5ms/step - loss: 0.1627 -
accuracy: 0.9866 - val_loss: 0.6162 - val_accuracy: 0.8788 - lr: 6.0653e-05

Epoch 16/30
704/704 [=====] - 4s 5ms/step - loss: 0.1495 -
accuracy: 0.9912 - val_loss: 0.6219 - val_accuracy: 0.8760 - lr: 5.4881e-05

Epoch 17/30
704/704 [=====] - 4s 5ms/step - loss: 0.1402 -
accuracy: 0.9936 - val_loss: 0.6046 - val_accuracy: 0.8808 - lr: 4.9659e-05

Epoch 18/30
704/704 [=====] - 4s 5ms/step - loss: 0.1404 -
accuracy: 0.9926 - val_loss: 0.7448 - val_accuracy: 0.8728 - lr: 4.4933e-05

Epoch 19/30
704/704 [=====] - 4s 5ms/step - loss: 0.1302 -
accuracy: 0.9954 - val_loss: 0.6543 - val_accuracy: 0.8828 - lr: 4.0657e-05

Epoch 20/30
704/704 [=====] - 4s 5ms/step - loss: 0.1272 -
accuracy: 0.9962 - val_loss: 0.7398 - val_accuracy: 0.8752 - lr: 3.6788e-05

Epoch 21/30
704/704 [=====] - 4s 5ms/step - loss: 0.1274 -
accuracy: 0.9955 - val_loss: 0.7020 - val_accuracy: 0.8792 - lr: 3.3287e-05

Epoch 22/30
704/704 [=====] - 4s 5ms/step - loss: 0.1212 -
accuracy: 0.9971 - val_loss: 0.6974 - val_accuracy: 0.8864 - lr: 3.0119e-05

Epoch 23/30
704/704 [=====] - 4s 5ms/step - loss: 0.1182 -
accuracy: 0.9978 - val_loss: 0.7190 - val_accuracy: 0.8768 - lr: 2.7253e-05

Epoch 24/30
704/704 [=====] - 4s 5ms/step - loss: 0.1132 -
accuracy: 0.9987 - val_loss: 0.7759 - val_accuracy: 0.8800 - lr: 2.4660e-05

Epoch 25/30
704/704 [=====] - 4s 5ms/step - loss: 0.1154 -
accuracy: 0.9980 - val_loss: 0.7566 - val_accuracy: 0.8768 - lr: 2.2313e-05

Epoch 26/30
704/704 [=====] - 4s 5ms/step - loss: 0.1091 -
accuracy: 0.9992 - val_loss: 0.8166 - val_accuracy: 0.8712 - lr: 2.0190e-05

Epoch 27/30
704/704 [=====] - 4s 5ms/step - loss: 0.1097 -
accuracy: 0.9984 - val_loss: 0.7795 - val_accuracy: 0.8752 - lr: 1.8268e-05

Epoch 28/30
704/704 [=====] - 4s 5ms/step - loss: 0.1066 -
accuracy: 0.9991 - val_loss: 0.8097 - val_accuracy: 0.8780 - lr: 1.6530e-05

Epoch 29/30
704/704 [=====] - 4s 5ms/step - loss: 0.1058 -
accuracy: 0.9989 - val_loss: 0.7817 - val_accuracy: 0.8800 - lr: 1.4957e-05

Epoch 30/30
704/704 [=====] - 4s 5ms/step - loss: 0.1048 -
accuracy: 0.9990 - val_loss: 0.8152 - val_accuracy: 0.8784 - lr: 1.3534e-05
79/79 [=====] - 0s 2ms/step

Training Fold 8...

Epoch 1/30
704/704 [=====] - 7s 6ms/step - loss: 0.8760 -
accuracy: 0.6212 - val_loss: 0.7065 - val_accuracy: 0.7112 - lr: 1.0000e-04
Epoch 2/30
704/704 [=====] - 4s 5ms/step - loss: 0.6689 -
accuracy: 0.7412 - val_loss: 0.6077 - val_accuracy: 0.7812 - lr: 1.0000e-04
Epoch 3/30
704/704 [=====] - 4s 5ms/step - loss: 0.5880 -
accuracy: 0.7967 - val_loss: 0.6610 - val_accuracy: 0.7248 - lr: 1.0000e-04
Epoch 4/30
704/704 [=====] - 4s 6ms/step - loss: 0.5252 -
accuracy: 0.8302 - val_loss: 0.5339 - val_accuracy: 0.8308 - lr: 1.0000e-04
Epoch 5/30
704/704 [=====] - 4s 5ms/step - loss: 0.4646 -
accuracy: 0.8594 - val_loss: 0.5454 - val_accuracy: 0.8212 - lr: 1.0000e-04
Epoch 6/30
704/704 [=====] - 4s 5ms/step - loss: 0.4051 -
accuracy: 0.8888 - val_loss: 0.4602 - val_accuracy: 0.8572 - lr: 1.0000e-04
Epoch 7/30
704/704 [=====] - 4s 5ms/step - loss: 0.3563 -
accuracy: 0.9118 - val_loss: 0.4527 - val_accuracy: 0.8624 - lr: 1.0000e-04
Epoch 8/30
704/704 [=====] - 4s 5ms/step - loss: 0.3021 -
accuracy: 0.9343 - val_loss: 0.5264 - val_accuracy: 0.8480 - lr: 1.0000e-04
Epoch 9/30
704/704 [=====] - 4s 5ms/step - loss: 0.2682 -
accuracy: 0.9487 - val_loss: 0.5835 - val_accuracy: 0.8692 - lr: 1.0000e-04
Epoch 10/30
704/704 [=====] - 4s 5ms/step - loss: 0.2414 -
accuracy: 0.9595 - val_loss: 0.4980 - val_accuracy: 0.8704 - lr: 1.0000e-04
Epoch 11/30
704/704 [=====] - 4s 5ms/step - loss: 0.2190 -
accuracy: 0.9686 - val_loss: 0.5343 - val_accuracy: 0.8780 - lr: 9.0484e-05
Epoch 12/30
704/704 [=====] - 4s 5ms/step - loss: 0.1851 -
accuracy: 0.9798 - val_loss: 0.5840 - val_accuracy: 0.8708 - lr: 8.1873e-05
Epoch 13/30
704/704 [=====] - 4s 5ms/step - loss: 0.1811 -
accuracy: 0.9819 - val_loss: 0.8668 - val_accuracy: 0.8312 - lr: 7.4082e-05
Epoch 14/30
704/704 [=====] - 4s 5ms/step - loss: 0.1676 -
accuracy: 0.9864 - val_loss: 0.6624 - val_accuracy: 0.8704 - lr: 6.7032e-05

Epoch 15/30
704/704 [=====] - 4s 5ms/step - loss: 0.1560 -
accuracy: 0.9894 - val_loss: 0.6450 - val_accuracy: 0.8756 - lr: 6.0653e-05

Epoch 16/30
704/704 [=====] - 4s 5ms/step - loss: 0.1478 -
accuracy: 0.9910 - val_loss: 0.7695 - val_accuracy: 0.8592 - lr: 5.4881e-05

Epoch 17/30
704/704 [=====] - 4s 5ms/step - loss: 0.1424 -
accuracy: 0.9929 - val_loss: 0.7198 - val_accuracy: 0.8740 - lr: 4.9659e-05

Epoch 18/30
704/704 [=====] - 4s 5ms/step - loss: 0.1366 -
accuracy: 0.9938 - val_loss: 0.8150 - val_accuracy: 0.8720 - lr: 4.4933e-05

Epoch 19/30
704/704 [=====] - 4s 5ms/step - loss: 0.1317 -
accuracy: 0.9957 - val_loss: 0.7952 - val_accuracy: 0.8684 - lr: 4.0657e-05

Epoch 20/30
704/704 [=====] - 4s 5ms/step - loss: 0.1270 -
accuracy: 0.9961 - val_loss: 1.0539 - val_accuracy: 0.8432 - lr: 3.6788e-05

Epoch 21/30
704/704 [=====] - 4s 5ms/step - loss: 0.1235 -
accuracy: 0.9965 - val_loss: 0.7106 - val_accuracy: 0.8848 - lr: 3.3287e-05

Epoch 22/30
704/704 [=====] - 4s 5ms/step - loss: 0.1225 -
accuracy: 0.9964 - val_loss: 0.7932 - val_accuracy: 0.8764 - lr: 3.0119e-05

Epoch 23/30
704/704 [=====] - 4s 5ms/step - loss: 0.1180 -
accuracy: 0.9974 - val_loss: 0.8040 - val_accuracy: 0.8772 - lr: 2.7253e-05

Epoch 24/30
704/704 [=====] - 4s 5ms/step - loss: 0.1179 -
accuracy: 0.9968 - val_loss: 0.8151 - val_accuracy: 0.8832 - lr: 2.4660e-05

Epoch 25/30
704/704 [=====] - 4s 5ms/step - loss: 0.1154 -
accuracy: 0.9969 - val_loss: 0.8796 - val_accuracy: 0.8748 - lr: 2.2313e-05

Epoch 26/30
704/704 [=====] - 4s 5ms/step - loss: 0.1124 -
accuracy: 0.9984 - val_loss: 0.7931 - val_accuracy: 0.8852 - lr: 2.0190e-05

Epoch 27/30
704/704 [=====] - 4s 5ms/step - loss: 0.1105 -
accuracy: 0.9987 - val_loss: 0.8100 - val_accuracy: 0.8832 - lr: 1.8268e-05

Epoch 28/30
704/704 [=====] - 4s 5ms/step - loss: 0.1088 -
accuracy: 0.9987 - val_loss: 0.8196 - val_accuracy: 0.8856 - lr: 1.6530e-05

Epoch 29/30
704/704 [=====] - 4s 5ms/step - loss: 0.1067 -
accuracy: 0.9989 - val_loss: 0.8565 - val_accuracy: 0.8820 - lr: 1.4957e-05

Epoch 30/30
704/704 [=====] - 4s 5ms/step - loss: 0.1050 -
accuracy: 0.9993 - val_loss: 0.8722 - val_accuracy: 0.8856 - lr: 1.3534e-05

79/79 [=====] - 0s 1ms/step

Training Fold 9...

Epoch 1/30

704/704 [=====] - 7s 6ms/step - loss: 0.8737 -
accuracy: 0.6228 - val_loss: 0.7036 - val_accuracy: 0.7140 - lr: 1.0000e-04

Epoch 2/30

704/704 [=====] - 4s 5ms/step - loss: 0.6758 -
accuracy: 0.7416 - val_loss: 0.6043 - val_accuracy: 0.7780 - lr: 1.0000e-04

Epoch 3/30

704/704 [=====] - 4s 5ms/step - loss: 0.5871 -
accuracy: 0.7993 - val_loss: 0.6082 - val_accuracy: 0.7776 - lr: 1.0000e-04

Epoch 4/30

704/704 [=====] - 4s 5ms/step - loss: 0.5221 -
accuracy: 0.8295 - val_loss: 0.6026 - val_accuracy: 0.7796 - lr: 1.0000e-04

Epoch 5/30

704/704 [=====] - 4s 5ms/step - loss: 0.4538 -
accuracy: 0.8631 - val_loss: 0.6069 - val_accuracy: 0.7836 - lr: 1.0000e-04

Epoch 6/30

704/704 [=====] - 4s 5ms/step - loss: 0.3997 -
accuracy: 0.8921 - val_loss: 0.4929 - val_accuracy: 0.8516 - lr: 1.0000e-04

Epoch 7/30

704/704 [=====] - 4s 6ms/step - loss: 0.3505 -
accuracy: 0.9124 - val_loss: 0.6251 - val_accuracy: 0.7936 - lr: 1.0000e-04

Epoch 8/30

704/704 [=====] - 4s 5ms/step - loss: 0.3116 -
accuracy: 0.9304 - val_loss: 0.4532 - val_accuracy: 0.8616 - lr: 1.0000e-04

Epoch 9/30

704/704 [=====] - 4s 5ms/step - loss: 0.2702 -
accuracy: 0.9477 - val_loss: 0.5051 - val_accuracy: 0.8528 - lr: 1.0000e-04

Epoch 10/30

704/704 [=====] - 4s 5ms/step - loss: 0.2439 -
accuracy: 0.9575 - val_loss: 0.6205 - val_accuracy: 0.8312 - lr: 1.0000e-04

Epoch 11/30

704/704 [=====] - 4s 5ms/step - loss: 0.2164 -
accuracy: 0.9685 - val_loss: 0.5530 - val_accuracy: 0.8520 - lr: 9.0484e-05

Epoch 12/30

704/704 [=====] - 4s 5ms/step - loss: 0.1899 -
accuracy: 0.9769 - val_loss: 0.6687 - val_accuracy: 0.8592 - lr: 8.1873e-05

Epoch 13/30

704/704 [=====] - 4s 5ms/step - loss: 0.1787 -
accuracy: 0.9820 - val_loss: 0.6499 - val_accuracy: 0.8620 - lr: 7.4082e-05

Epoch 14/30

704/704 [=====] - 4s 5ms/step - loss: 0.1634 -
accuracy: 0.9865 - val_loss: 0.6255 - val_accuracy: 0.8600 - lr: 6.7032e-05

Epoch 15/30

704/704 [=====] - 4s 5ms/step - loss: 0.1551 -
accuracy: 0.9896 - val_loss: 0.6100 - val_accuracy: 0.8764 - lr: 6.0653e-05

Epoch 16/30
704/704 [=====] - 4s 5ms/step - loss: 0.1459 -
accuracy: 0.9911 - val_loss: 0.9266 - val_accuracy: 0.8440 - lr: 5.4881e-05
Epoch 17/30
704/704 [=====] - 4s 5ms/step - loss: 0.1427 -
accuracy: 0.9921 - val_loss: 1.0061 - val_accuracy: 0.8484 - lr: 4.9659e-05
Epoch 18/30
704/704 [=====] - 4s 6ms/step - loss: 0.1315 -
accuracy: 0.9955 - val_loss: 0.7459 - val_accuracy: 0.8740 - lr: 4.4933e-05
Epoch 19/30
704/704 [=====] - 4s 5ms/step - loss: 0.1294 -
accuracy: 0.9948 - val_loss: 0.7366 - val_accuracy: 0.8740 - lr: 4.0657e-05
Epoch 20/30
704/704 [=====] - 4s 5ms/step - loss: 0.1269 -
accuracy: 0.9952 - val_loss: 1.0133 - val_accuracy: 0.8568 - lr: 3.6788e-05
Epoch 21/30
704/704 [=====] - 4s 5ms/step - loss: 0.1211 -
accuracy: 0.9968 - val_loss: 0.8818 - val_accuracy: 0.8732 - lr: 3.3287e-05
Epoch 22/30
704/704 [=====] - 4s 5ms/step - loss: 0.1180 -
accuracy: 0.9972 - val_loss: 0.7801 - val_accuracy: 0.8764 - lr: 3.0119e-05
Epoch 23/30
704/704 [=====] - 4s 5ms/step - loss: 0.1167 -
accuracy: 0.9972 - val_loss: 0.8069 - val_accuracy: 0.8728 - lr: 2.7253e-05
Epoch 24/30
704/704 [=====] - 4s 5ms/step - loss: 0.1123 -
accuracy: 0.9984 - val_loss: 0.8671 - val_accuracy: 0.8732 - lr: 2.4660e-05
Epoch 25/30
704/704 [=====] - 4s 5ms/step - loss: 0.1114 -
accuracy: 0.9981 - val_loss: 0.8322 - val_accuracy: 0.8764 - lr: 2.2313e-05
Epoch 26/30
704/704 [=====] - 4s 5ms/step - loss: 0.1073 -
accuracy: 0.9986 - val_loss: 0.8234 - val_accuracy: 0.8764 - lr: 2.0190e-05
Epoch 27/30
704/704 [=====] - 4s 5ms/step - loss: 0.1074 -
accuracy: 0.9984 - val_loss: 0.8111 - val_accuracy: 0.8808 - lr: 1.8268e-05
Epoch 28/30
704/704 [=====] - 4s 5ms/step - loss: 0.1062 -
accuracy: 0.9982 - val_loss: 0.8662 - val_accuracy: 0.8868 - lr: 1.6530e-05
Epoch 29/30
704/704 [=====] - 4s 5ms/step - loss: 0.1043 -
accuracy: 0.9989 - val_loss: 0.8516 - val_accuracy: 0.8788 - lr: 1.4957e-05
Epoch 30/30
704/704 [=====] - 4s 5ms/step - loss: 0.1027 -
accuracy: 0.9989 - val_loss: 0.8649 - val_accuracy: 0.8788 - lr: 1.3534e-05
79/79 [=====] - 0s 2ms/step

Training Fold 10...

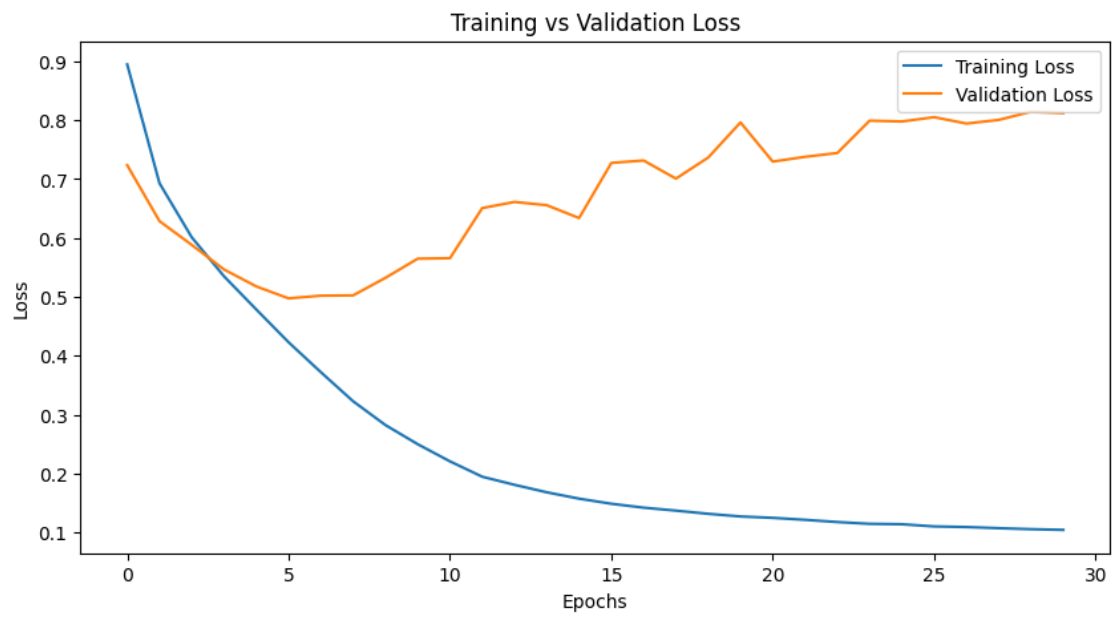
Epoch 1/30
704/704 [=====] - 7s 6ms/step - loss: 0.9075 -
accuracy: 0.6185 - val_loss: 0.6869 - val_accuracy: 0.7476 - lr: 1.0000e-04
Epoch 2/30
704/704 [=====] - 4s 5ms/step - loss: 0.6830 -
accuracy: 0.7372 - val_loss: 0.5947 - val_accuracy: 0.7996 - lr: 1.0000e-04
Epoch 3/30
704/704 [=====] - 4s 5ms/step - loss: 0.5895 -
accuracy: 0.7959 - val_loss: 0.5650 - val_accuracy: 0.7968 - lr: 1.0000e-04
Epoch 4/30
704/704 [=====] - 4s 5ms/step - loss: 0.5285 -
accuracy: 0.8259 - val_loss: 0.5712 - val_accuracy: 0.8012 - lr: 1.0000e-04
Epoch 5/30
704/704 [=====] - 4s 5ms/step - loss: 0.4664 -
accuracy: 0.8586 - val_loss: 0.5012 - val_accuracy: 0.8496 - lr: 1.0000e-04
Epoch 6/30
704/704 [=====] - 4s 5ms/step - loss: 0.4184 -
accuracy: 0.8839 - val_loss: 0.5215 - val_accuracy: 0.8288 - lr: 1.0000e-04
Epoch 7/30
704/704 [=====] - 4s 5ms/step - loss: 0.3645 -
accuracy: 0.9057 - val_loss: 0.4980 - val_accuracy: 0.8476 - lr: 1.0000e-04
Epoch 8/30
704/704 [=====] - 4s 5ms/step - loss: 0.3172 -
accuracy: 0.9258 - val_loss: 0.6168 - val_accuracy: 0.8080 - lr: 1.0000e-04
Epoch 9/30
704/704 [=====] - 4s 5ms/step - loss: 0.2749 -
accuracy: 0.9472 - val_loss: 0.4697 - val_accuracy: 0.8764 - lr: 1.0000e-04
Epoch 10/30
704/704 [=====] - 4s 5ms/step - loss: 0.2465 -
accuracy: 0.9559 - val_loss: 0.5961 - val_accuracy: 0.8444 - lr: 1.0000e-04
Epoch 11/30
704/704 [=====] - 4s 5ms/step - loss: 0.2189 -
accuracy: 0.9677 - val_loss: 0.6093 - val_accuracy: 0.8584 - lr: 9.0484e-05
Epoch 12/30
704/704 [=====] - 4s 5ms/step - loss: 0.1901 -
accuracy: 0.9769 - val_loss: 0.7781 - val_accuracy: 0.8512 - lr: 8.1873e-05
Epoch 13/30
704/704 [=====] - 4s 5ms/step - loss: 0.1793 -
accuracy: 0.9820 - val_loss: 0.8079 - val_accuracy: 0.8484 - lr: 7.4082e-05
Epoch 14/30
704/704 [=====] - 4s 5ms/step - loss: 0.1675 -
accuracy: 0.9863 - val_loss: 0.6865 - val_accuracy: 0.8684 - lr: 6.7032e-05
Epoch 15/30
704/704 [=====] - 4s 5ms/step - loss: 0.1579 -
accuracy: 0.9884 - val_loss: 0.7520 - val_accuracy: 0.8700 - lr: 6.0653e-05
Epoch 16/30
704/704 [=====] - 4s 5ms/step - loss: 0.1485 -
accuracy: 0.9909 - val_loss: 0.7602 - val_accuracy: 0.8604 - lr: 5.4881e-05

Epoch 17/30
704/704 [=====] - 4s 5ms/step - loss: 0.1403 -
accuracy: 0.9930 - val_loss: 0.6490 - val_accuracy: 0.8824 - lr: 4.9659e-05
Epoch 18/30
704/704 [=====] - 4s 5ms/step - loss: 0.1383 -
accuracy: 0.9936 - val_loss: 0.6238 - val_accuracy: 0.8952 - lr: 4.4933e-05
Epoch 19/30
704/704 [=====] - 4s 5ms/step - loss: 0.1291 -
accuracy: 0.9956 - val_loss: 0.6681 - val_accuracy: 0.8860 - lr: 4.0657e-05
Epoch 20/30
704/704 [=====] - 4s 5ms/step - loss: 0.1276 -
accuracy: 0.9952 - val_loss: 0.8084 - val_accuracy: 0.8764 - lr: 3.6788e-05
Epoch 21/30
704/704 [=====] - 4s 5ms/step - loss: 0.1234 -
accuracy: 0.9958 - val_loss: 0.7142 - val_accuracy: 0.8848 - lr: 3.3287e-05
Epoch 22/30
704/704 [=====] - 4s 5ms/step - loss: 0.1197 -
accuracy: 0.9970 - val_loss: 0.7129 - val_accuracy: 0.8852 - lr: 3.0119e-05
Epoch 23/30
704/704 [=====] - 4s 5ms/step - loss: 0.1149 -
accuracy: 0.9980 - val_loss: 0.7233 - val_accuracy: 0.8864 - lr: 2.7253e-05
Epoch 24/30
704/704 [=====] - 4s 5ms/step - loss: 0.1149 -
accuracy: 0.9972 - val_loss: 0.9013 - val_accuracy: 0.8644 - lr: 2.4660e-05
Epoch 25/30
704/704 [=====] - 4s 5ms/step - loss: 0.1123 -
accuracy: 0.9980 - val_loss: 0.7401 - val_accuracy: 0.8808 - lr: 2.2313e-05
Epoch 26/30
704/704 [=====] - 4s 5ms/step - loss: 0.1087 -
accuracy: 0.9988 - val_loss: 0.7728 - val_accuracy: 0.8788 - lr: 2.0190e-05
Epoch 27/30
704/704 [=====] - 4s 5ms/step - loss: 0.1080 -
accuracy: 0.9983 - val_loss: 0.7981 - val_accuracy: 0.8800 - lr: 1.8268e-05
Epoch 28/30
704/704 [=====] - 4s 5ms/step - loss: 0.1055 -
accuracy: 0.9988 - val_loss: 0.8631 - val_accuracy: 0.8800 - lr: 1.6530e-05
Epoch 29/30
704/704 [=====] - 4s 5ms/step - loss: 0.1032 -
accuracy: 0.9992 - val_loss: 0.8545 - val_accuracy: 0.8804 - lr: 1.4957e-05
Epoch 30/30
704/704 [=====] - 4s 5ms/step - loss: 0.1030 -
accuracy: 0.9987 - val_loss: 0.7928 - val_accuracy: 0.8880 - lr: 1.3534e-05
79/79 [=====] - 0s 1ms/step

Results

AUC: 0.955 \pm 0.004
Precision: 0.884 \pm 0.017
Recall: 0.885 \pm 0.021

F1-score: 0.884 ± 0.008



[]: