

# Emotion\_Detection

June 9, 2025

## 1 Data Set-

Kaggle - <https://www.kaggle.com/datasets/msambare/fer2013> The data consists of 48x48 pixel grayscale images of faces. The faces have been automatically registered so that the face is more or less centred and occupies about the same amount of space in each image.

The task is to categorize each face based on the emotion shown in the facial expression into one of seven categories (0=Angry, 1=Disgust, 2=Fear, 3=Happy, 4=Sad, 5=Surprise, 6=Neutral)

## 2 Setting up Kaggle Directory

```
[ ]: !mkdir -p ./kaggle
      !cp kaggle.json ~/.kaggle/
```

cp: cannot stat 'kaggle.json': No such file or directory

```
[ ]: !kaggle datasets download -d msambare/fer2013
```

Dataset URL: <https://www.kaggle.com/datasets/msambare/fer2013>

License(s): DbCL-1.0

Downloading fer2013.zip to /content

99% 60.0M/60.3M [00:03<00:00, 22.2MB/s]

100% 60.3M/60.3M [00:03<00:00, 15.9MB/s]

```
[ ]: !unzip /content/fer2013.zip -d /content/
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**Streaming output truncated to the last 5000 lines.**

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inflating: /content/train/surprise/Training\_98084340.jpg  
inflating: /content/train/surprise/Training\_98137653.jpg  
inflating: /content/train/surprise/Training\_98160615.jpg  
inflating: /content/train/surprise/Training\_98169661.jpg  
inflating: /content/train/surprise/Training\_98192978.jpg  
inflating: /content/train/surprise/Training\_98197769.jpg  
inflating: /content/train/surprise/Training\_98223737.jpg  
inflating: /content/train/surprise/Training\_98223779.jpg  
inflating: /content/train/surprise/Training\_98234175.jpg  
inflating: /content/train/surprise/Training\_98235103.jpg  
inflating: /content/train/surprise/Training\_98241018.jpg  
inflating: /content/train/surprise/Training\_98315142.jpg  
inflating: /content/train/surprise/Training\_98334836.jpg  
inflating: /content/train/surprise/Training\_98349673.jpg  
inflating: /content/train/surprise/Training\_98352897.jpg  
inflating: /content/train/surprise/Training\_98381187.jpg  
inflating: /content/train/surprise/Training\_9839279.jpg  
inflating: /content/train/surprise/Training\_98393554.jpg  
inflating: /content/train/surprise/Training\_98397319.jpg  
inflating: /content/train/surprise/Training\_98409862.jpg  
inflating: /content/train/surprise/Training\_98446939.jpg  
inflating: /content/train/surprise/Training\_98447563.jpg  
inflating: /content/train/surprise/Training\_98472640.jpg  
inflating: /content/train/surprise/Training\_98481914.jpg  
inflating: /content/train/surprise/Training\_98511054.jpg  
inflating: /content/train/surprise/Training\_98514521.jpg  
inflating: /content/train/surprise/Training\_98539906.jpg  
inflating: /content/train/surprise/Training\_98569897.jpg  
inflating: /content/train/surprise/Training\_98576352.jpg  
inflating: /content/train/surprise/Training\_98588726.jpg  
inflating: /content/train/surprise/Training\_98594534.jpg  
inflating: /content/train/surprise/Training\_98644924.jpg  
inflating: /content/train/surprise/Training\_98657632.jpg



inflating: /content/train/surprise/Training\_98664620.jpg  
inflating: /content/train/surprise/Training\_98737557.jpg  
inflating: /content/train/surprise/Training\_98747340.jpg  
inflating: /content/train/surprise/Training\_98750930.jpg  
inflating: /content/train/surprise/Training\_98758885.jpg  
inflating: /content/train/surprise/Training\_98767792.jpg  
inflating: /content/train/surprise/Training\_98774734.jpg  
inflating: /content/train/surprise/Training\_9880069.jpg  
inflating: /content/train/surprise/Training\_98827007.jpg  
inflating: /content/train/surprise/Training\_98828949.jpg  
inflating: /content/train/surprise/Training\_98840937.jpg  
inflating: /content/train/surprise/Training\_98861159.jpg  
inflating: /content/train/surprise/Training\_98899707.jpg  
inflating: /content/train/surprise/Training\_9890261.jpg  
inflating: /content/train/surprise/Training\_98971238.jpg  
inflating: /content/train/surprise/Training\_98972491.jpg  
inflating: /content/train/surprise/Training\_99066709.jpg  
inflating: /content/train/surprise/Training\_9909756.jpg  
inflating: /content/train/surprise/Training\_99104204.jpg  
inflating: /content/train/surprise/Training\_99106305.jpg  
inflating: /content/train/surprise/Training\_99113691.jpg  
inflating: /content/train/surprise/Training\_991508.jpg  
inflating: /content/train/surprise/Training\_99182527.jpg  
inflating: /content/train/surprise/Training\_99233432.jpg  
inflating: /content/train/surprise/Training\_99267647.jpg  
inflating: /content/train/surprise/Training\_99279802.jpg  
inflating: /content/train/surprise/Training\_99318660.jpg  
inflating: /content/train/surprise/Training\_9932811.jpg  
inflating: /content/train/surprise/Training\_99399304.jpg  
inflating: /content/train/surprise/Training\_99399823.jpg  
inflating: /content/train/surprise/Training\_99404349.jpg  
inflating: /content/train/surprise/Training\_9943398.jpg  
inflating: /content/train/surprise/Training\_99441101.jpg  
inflating: /content/train/surprise/Training\_99576616.jpg  
inflating: /content/train/surprise/Training\_99604118.jpg  
inflating: /content/train/surprise/Training\_99663019.jpg  
inflating: /content/train/surprise/Training\_99791966.jpg  
inflating: /content/train/surprise/Training\_99794165.jpg  
inflating: /content/train/surprise/Training\_99807705.jpg  
inflating: /content/train/surprise/Training\_99827442.jpg  
inflating: /content/train/surprise/Training\_99916297.jpg  
inflating: /content/train/surprise/Training\_99924420.jpg  
inflating: /content/train/surprise/Training\_99937001.jpg  
inflating: /content/train/surprise/Training\_99951755.jpg  
inflating: /content/train/surprise/Training\_99984132.jpg

### 3 Installing Packages

```
[ ]: import os
import random
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import cv2
import imghdr
import tensorflow as tf
from PIL import Image
import seaborn as sns

from sklearn.metrics import confusion_matrix, classification_report, roc_curve, \
    ↪ auc
from sklearn.utils.class_weight import compute_class_weight

from tensorflow.keras import layers, models, regularizers, optimizers
from tensorflow.keras.applications import VGG16, ResNet50V2
from tensorflow.keras.callbacks import ModelCheckpoint, EarlyStopping, \
    ↪ ReduceLROnPlateau, TensorBoard, CSVLogger
from tensorflow.keras.layers import Conv2D, MaxPooling2D, BatchNormalization, \
    ↪ Dropout, Flatten, Dense, Activation, GlobalAveragePooling2D
from tensorflow.keras.models import Sequential, Model
from tensorflow.keras.optimizers import Adam, Adamax
from tensorflow.keras.preprocessing.image import ImageDataGenerator, load_img, \
    ↪ img_to_array
from keras.utils import plot_model
```

### 4 Setting up Directory to save model data.

```
[ ]: os.makedirs('test_dir', exist_ok=True)

[ ]: # Define your project name
project_name = 'FER_2013_Emotion_Detection'

# List your models
model_names = [
    'Custom_CNN_From_Scratch',
    'Custom_CNN_With_Augmentation',
    'VGG16_Transfer_Learning',
    'ResNet50_Transfer_Learning'
]

# Base directory (in this case, your Google Colab workspace)
base_dir = '/content/'
```

```

# Create the project directory
project_dir = os.path.join(base_dir, project_name)
os.makedirs(project_dir, exist_ok=True)

# Create a subdirectory for each model
for each_model in model_names:
    model_dir = os.path.join(project_dir, each_model)
    os.makedirs(model_dir, exist_ok=True)
    # Example subdirectories for model-related files
    # os.makedirs(os.path.join(model_dir, 'checkpoints'), exist_ok=True)
    # os.makedirs(os.path.join(model_dir, 'logs'), exist_ok=True)
    # os.makedirs(os.path.join(model_dir, 'saved_models'), exist_ok=True)

print(f'Project directory structure created at: {project_dir}')

```

Project directory structure created at: /content/FER\_2013\_Emotion\_Detection

## 5 Data Cleaning

```

[ ]: # Define the list of acceptable image extensions
image_exts = ['jpeg', 'jpg', 'png']

# Path to the directory containing image classes and possibly other nested
↳ subdirectories
data_dir = '/content/train'

# Walk through all directories and files in the dataset
for root, dirs, files in os.walk(data_dir):
    for file in files:
        # Construct the path to the current file
        file_path = os.path.join(root, file)

        try:
            # Check the file type of the current file
            file_type = imghdr.what(file_path)

            # If the file extension is not in the allowed list, remove it
            if file_type not in image_exts:
                print(f'Image not in ext list {file_path}')
                os.remove(file_path)
            else:
                # Proceed to process the image if needed, for example, reading
↳ it with OpenCV
                img = cv2.imread(file_path)

```

```

except Exception as e:
    # Print out the issue and the path of the problematic file
    print(f'Issue with file {file_path}. Error: {e}')
    # Optionally, remove files that cause exceptions
    os.remove(file_path)

```

## 6 Data Analysis

```

[ ]: # Define a function to count the number of files (assumed to be images for this
    ↪ context) for each subdirectory in a given directory.
# The function returns a DataFrame with these counts, indexed by a specified
    ↪ set name (e.g., 'train' or 'test').
def count_files_in_subdirs(directory, set_name):
    # Initialize an empty dictionary to hold the count of files for each
    ↪ subdirectory.
    counts = {}

    # Iterate over each item in the given directory.
    for item in os.listdir(directory):
        # Construct the full path to the item.
        item_path = os.path.join(directory, item)

        # Check if the item is a directory.
        if os.path.isdir(item_path):
            # Count the number of files in the subdirectory and add it to the
            ↪ dictionary.
            counts[item] = len(os.listdir(item_path))

    # Convert the counts dictionary to a DataFrame for easy viewing and
    ↪ analysis.
    # The index of the DataFrame is set to the provided set name.
    df = pd.DataFrame(counts, index=[set_name])
    return df

# Paths to the training and testing directories.
train_dir = '/content/train'
test_dir = '/content/test'

# Count the files in the subdirectories of the training directory and print the
    ↪ result.
train_count = count_files_in_subdirs(train_dir, 'train')
print(train_count)

# Count the files in the subdirectories of the testing directory and print the
    ↪ result.

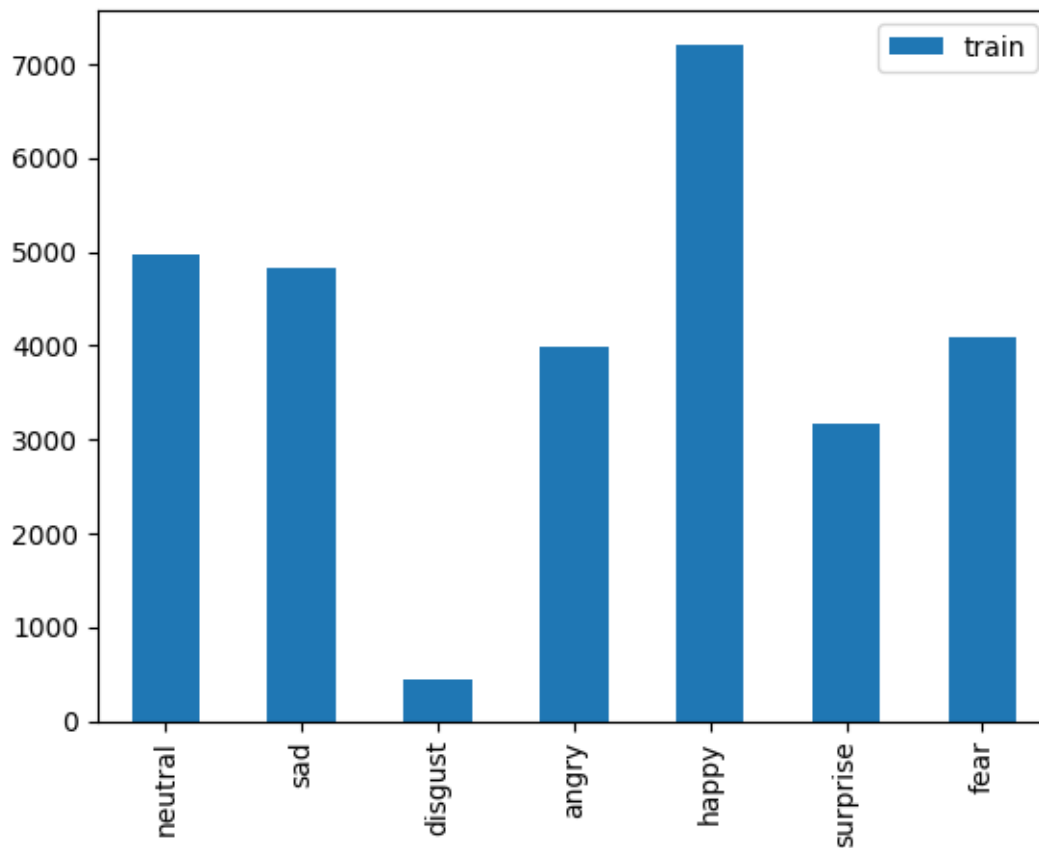
```

```
test_count = count_files_in_subdirs(test_dir, 'test')
print(test_count)
```

	neutral	sad	disgust	angry	happy	surprise	fear
train	4965	4830	436	3995	7215	3171	4097
	neutral	sad	disgust	angry	happy	surprise	fear
test	1233	1247	111	958	1774	831	1024

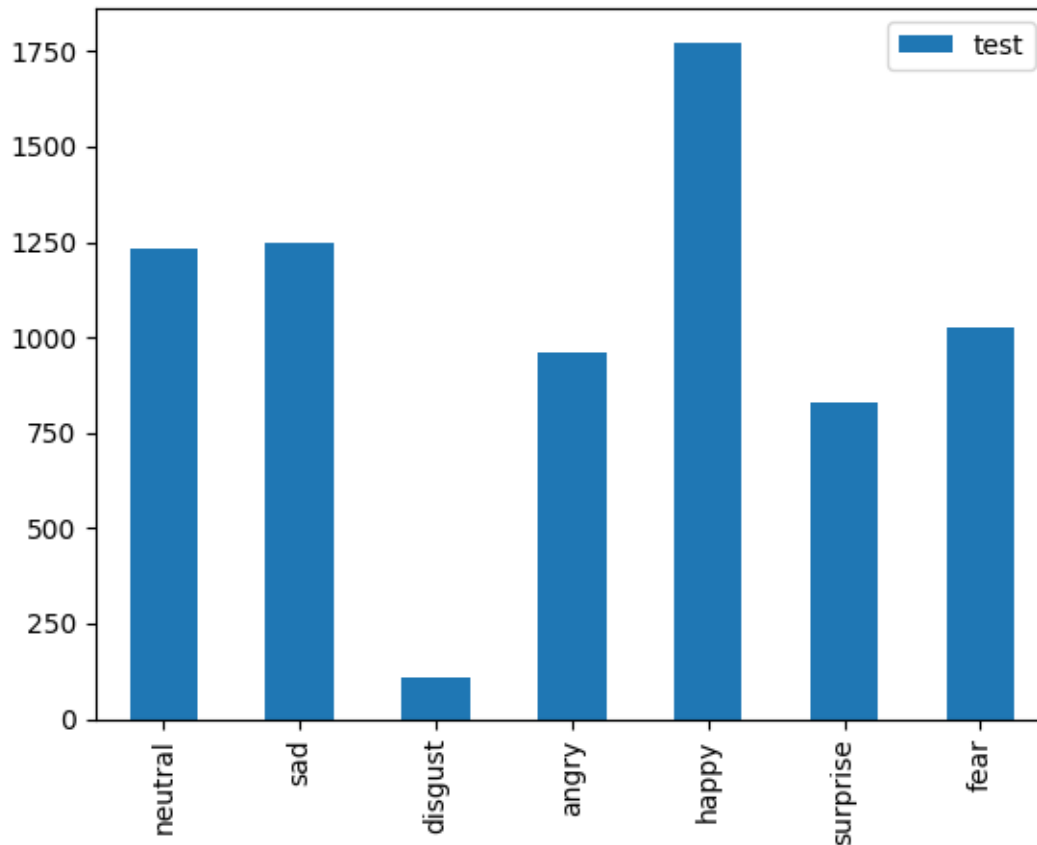
```
[ ]: train_count.transpose().plot(kind='bar')
```

```
[ ]: <Axes: >
```



```
[ ]: test_count.transpose().plot(kind='bar')
```

```
[ ]: <Axes: >
```



## 7 Plotting one image from each emotion.

```
[ ]: emotions = os.listdir(train_dir)
plt.figure(figsize=(15,10))

for i, emotion in enumerate(emotions, 1):
    folder = os.path.join(train_dir, emotion)
    img_path = os.path.join(folder, os.listdir(folder)[42])
    img = plt.imread(img_path)
    plt.subplot(3, 4, i)
    plt.imshow(img, cmap='gray')
    plt.title(emotion)
    plt.axis('off')
```



## 8 Plotting random images from given directory

```
[ ]: def plot_images_from_directory(directory_path, class_name, num_images=9):
    # Retrieve list of all file names in the directory
    image_filenames = os.listdir(directory_path)

    # If there are fewer images than requested, we'll just show them all
    if len(image_filenames) < num_images:
        print(f"Only found {len(image_filenames)} images in {directory_path},
        ↳ displaying them all.")
        num_images = len(image_filenames)

    # Randomly select 'num_images' number of file names
    selected_images = random.sample(image_filenames, num_images)

    # Plotting the images
    fig, axes = plt.subplots(3, 3, figsize=(5, 5)) # Adjust the size as needed
    axes = axes.ravel()

    for i, image_file in enumerate(selected_images):
        image_path = os.path.join(directory_path, image_file)
        # image = Image.open(image_path)
        image = load_img(image_path)
        axes[i].imshow(image)
        axes[i].set_title(f"Image: {class_name}")
        axes[i].axis('off') # Hide the axis

    plt.tight_layout()
```

```
plt.show()
```

```
[ ]: # Placeholder for the directory path
angry_directory_path = '/content/train/angry' # Replace with your directory_
↳path
plot_images_from_directory(angry_directory_path, class_name = 'Angry')
```

Image: Angry



Image: Angry



Image: Angry



Image: Angry



Image: Angry



Image: Angry



Image: Angry



Image: Angry



Image: Angry



```
[ ]: # Placeholder for the directory path
disgust_directory_path = '/content/train/disgust' # Replace with your_
↳directory path
plot_images_from_directory(disgust_directory_path, class_name = 'Disgust')
```



Image: Disgust



Image: Disgust



Image: Disgust



Image: Disgust

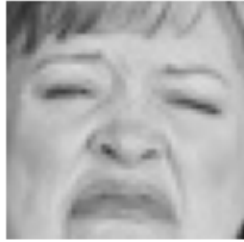


Image: Disgust



Image: Disgust



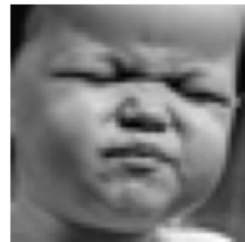
Image: Disgust



Image: Disgust



Image: Disgust



```
[ ]: # Placeholder for the directory path
surprise_directory_path = '/content/train/surprise' # Replace with your
↳directory path
plot_images_from_directory(surprise_directory_path, class_name = 'Surprise')
```

Image: Surpirse



Image: Surpirse

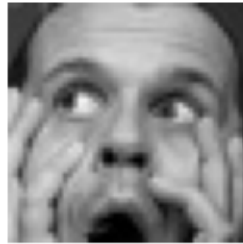


Image: Surpirse



Image: Surpirse



Image: Surpirse



Image: Surpirse



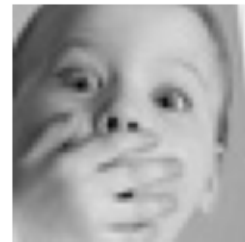
Image: Surpirse



Image: Surpirse



Image: Surpirse



## 9 Checking shapes and channels.

```
[ ]: image = '/content/train/angry/Training_10118481.jpg'

import cv2

img = cv2.imread(image) # Default load in color format.

# If the image is loaded successfully, print its pixel values
if img is not None:
    # print(img)
    print("Shape:", img.shape)
else:
    print("The image could not be loaded. Please check the path and file_
    ↪permissions.")
```

Shape: (48, 48, 3)

```
[ ]: import cv2

image_path = '/content/train/angry/Training_10118481.jpg'

# Load the image in grayscale
img = cv2.imread(image_path, cv2.IMREAD_GRAYSCALE)

# If the image is loaded successfully, print its pixel values
if img is not None:
    # print(img)
    print("Shape:", img.shape) # This should now print (48, 48)
else:
    print("The image could not be loaded. Please check the path and file_
    ↪permissions.")
```

Shape: (48, 48)

## 10 Model 1 : Custom CNN from Scratch

### 10.1 Initializing the ImageGenerators

```
[ ]: # Define paths to the train and validation directories
train_data_dir = '/content/train'
test_data_dir = '/content/test'
```

```
[ ]: # Set some parameters
img_width, img_height = 48, 48 # Size of images
batch_size = 64
epochs = 10
num_classes = 7 # Update this based on the number of your classes
```

```
[ ]: # Rescale the pixel values (0-255) to the [0, 1] interval
data_generator = ImageDataGenerator(rescale=1./255,
                                     validation_split=0.2)

# Automatically retrieve images and their classes for train and validation sets
train_generator = data_generator.flow_from_directory(
    train_data_dir,
    target_size=(img_width, img_height),
    batch_size=batch_size,
    class_mode='categorical',
    color_mode='grayscale',
    subset='training')

validation_generator = data_generator.flow_from_directory(
    train_data_dir,
    target_size=(img_width, img_height),
```

```

        batch_size=batch_size,
        class_mode='categorical',
        color_mode='grayscale',
        subset='validation')

test_generator = data_generator.flow_from_directory(
    test_data_dir,
    target_size=(img_width, img_height),
    batch_size=batch_size,
    class_mode='categorical',
    color_mode='grayscale',)
    # subset='validation')

```

Found 22968 images belonging to 7 classes.

Found 5741 images belonging to 7 classes.

Found 7178 images belonging to 7 classes.

```

[ ]: # Accessing class labels for the training data
train_class_labels = train_generator.class_indices
print("Training class labels:", train_class_labels)

# Accessing class labels for the validation data
validation_class_labels = validation_generator.class_indices
print("Validation class labels:", validation_class_labels)

# Accessing class labels for the validation data
test_class_labels = test_generator.class_indices
print("Validation class labels:", test_class_labels)

```

Training class labels: {'angry': 0, 'disgust': 1, 'fear': 2, 'happy': 3, 'neutral': 4, 'sad': 5, 'surprise': 6}

Validation class labels: {'angry': 0, 'disgust': 1, 'fear': 2, 'happy': 3, 'neutral': 4, 'sad': 5, 'surprise': 6}

Validation class labels: {'angry': 0, 'disgust': 1, 'fear': 2, 'happy': 3, 'neutral': 4, 'sad': 5, 'surprise': 6}

```

[ ]: # Initialising the CNN
model = Sequential()

# Adding convolutional layers with activations on the same line for clarity
model.add(Conv2D(32, kernel_size=(3, 3), kernel_initializer="glorot_uniform",
    ↪padding='same', input_shape=(img_width, img_height, 1)))
model.add(Activation('relu'))
model.add(Conv2D(64, kernel_size=(3, 3), padding='same'))
model.add(Activation('relu'))
model.add(BatchNormalization())
model.add(MaxPooling2D(2, 2))

```

```

model.add(Dropout(0.25))

model.add(Conv2D(128, kernel_size=(3, 3), padding='same',
↳kernel_regularizer=regularizers.l2(0.01)))
model.add(Activation('relu'))
model.add(Conv2D(256, kernel_size=(3, 3), kernel_regularizer=regularizers.l2(0.
↳01)))
model.add(Activation('relu'))
model.add(BatchNormalization())
model.add(MaxPooling2D(pool_size=(2, 2)))
model.add(Dropout(0.25))

model.add(Conv2D(512, kernel_size=(3, 3), padding='same',
↳kernel_regularizer=regularizers.l2(0.01)))
model.add(Activation('relu'))
model.add(Conv2D(512, kernel_size=(3, 3), padding='same',
↳kernel_regularizer=regularizers.l2(0.01)))
model.add(Activation('relu'))
model.add(BatchNormalization())
model.add(MaxPooling2D(pool_size=(2, 2)))
model.add(Dropout(0.25))

# Flattening and adding dense layers
model.add(Flatten())
model.add(Dense(1024))
model.add(Activation('relu'))
model.add(Dropout(0.5))

# Output layer
model.add(Dense(num_classes))
model.add(Activation('softmax'))

```

/usr/local/lib/python3.10/dist-packages/keras/src/layers/convolutional/base\_conv.py:107: UserWarning: Do not pass an `input\_shape`/`input\_dim` argument to a layer. When using Sequential models, prefer using an `Input(shape)` object as the first layer in the model instead.

```
super().__init__(activity_regularizer=activity_regularizer, **kwargs)
```

```
[ ]: model.summary()
```

Model: "sequential"

Layer (type)

↳Param #

Output Shape

↳

conv2d (Conv2D)	(None, 48, 48, 32)	┐
↪320		
activation (Activation)	(None, 48, 48, 32)	┐
↪ 0		
conv2d_1 (Conv2D)	(None, 48, 48, 64)	┐
↪18,496		
activation_1 (Activation)	(None, 48, 48, 64)	┐
↪ 0		
batch_normalization	(None, 48, 48, 64)	┐
↪256		
(BatchNormalization)		┐
↪		
max_pooling2d (MaxPooling2D)	(None, 24, 24, 64)	┐
↪ 0		
dropout (Dropout)	(None, 24, 24, 64)	┐
↪ 0		
conv2d_2 (Conv2D)	(None, 24, 24, 128)	┐
↪73,856		
activation_2 (Activation)	(None, 24, 24, 128)	┐
↪ 0		
conv2d_3 (Conv2D)	(None, 22, 22, 256)	┐
↪295,168		
activation_3 (Activation)	(None, 22, 22, 256)	┐
↪ 0		
batch_normalization_1	(None, 22, 22, 256)	┐
↪1,024		
(BatchNormalization)		┐
↪		
max_pooling2d_1 (MaxPooling2D)	(None, 11, 11, 256)	┐
↪ 0		
dropout_1 (Dropout)	(None, 11, 11, 256)	┐
↪ 0		

conv2d_4 (Conv2D)	(None, 11, 11, 512)	└
↪ 1,180,160		
activation_4 (Activation)	(None, 11, 11, 512)	└
↪ 0		
conv2d_5 (Conv2D)	(None, 11, 11, 512)	└
↪ 2,359,808		
activation_5 (Activation)	(None, 11, 11, 512)	└
↪ 0		
batch_normalization_2	(None, 11, 11, 512)	└
↪ 2,048		
(BatchNormalization)		└
↪		
max_pooling2d_2 (MaxPooling2D)	(None, 5, 5, 512)	└
↪ 0		
dropout_2 (Dropout)	(None, 5, 5, 512)	└
↪ 0		
flatten (Flatten)	(None, 12800)	└
↪ 0		
dense (Dense)	(None, 1024)	└
↪ 13,108,224		
activation_6 (Activation)	(None, 1024)	└
↪ 0		
dropout_3 (Dropout)	(None, 1024)	└
↪ 0		
dense_1 (Dense)	(None, 7)	└
↪ 7,175		
activation_7 (Activation)	(None, 7)	└
↪ 0		

Total params: 17,046,535 (65.03 MB)

Trainable params: 17,044,871 (65.02 MB)

Non-trainable params: 1,664 (6.50 KB)

```
[ ]: # Compiling the model
model.compile(optimizer=tf.keras.optimizers.Adam(learning_rate=0.0001),
              loss='categorical_crossentropy',
              metrics=['accuracy'])
```

```
[ ]: model.summary()
```

Model: "sequential"

Layer (type)	Output Shape	
↳ Param #		
conv2d (Conv2D)	(None, 48, 48, 32)	↳
↳ 320		
activation (Activation)	(None, 48, 48, 32)	↳
↳ 0		
conv2d_1 (Conv2D)	(None, 48, 48, 64)	↳
↳ 18,496		
activation_1 (Activation)	(None, 48, 48, 64)	↳
↳ 0		
batch_normalization	(None, 48, 48, 64)	↳
↳ 256		
(BatchNormalization)		↳
↳		
max_pooling2d (MaxPooling2D)	(None, 24, 24, 64)	↳
↳ 0		
dropout (Dropout)	(None, 24, 24, 64)	↳
↳ 0		
conv2d_2 (Conv2D)	(None, 24, 24, 128)	↳
↳ 73,856		
activation_2 (Activation)	(None, 24, 24, 128)	↳
↳ 0		



conv2d_3 (Conv2D) ↪295,168	(None, 22, 22, 256)	┘
activation_3 (Activation) ↪ 0	(None, 22, 22, 256)	┘
batch_normalization_1 ↪1,024 (BatchNormalization) ↪	(None, 22, 22, 256)	┘
max_pooling2d_1 (MaxPooling2D) ↪ 0	(None, 11, 11, 256)	┘
dropout_1 (Dropout) ↪ 0	(None, 11, 11, 256)	┘
conv2d_4 (Conv2D) ↪1,180,160	(None, 11, 11, 512)	┘
activation_4 (Activation) ↪ 0	(None, 11, 11, 512)	┘
conv2d_5 (Conv2D) ↪2,359,808	(None, 11, 11, 512)	┘
activation_5 (Activation) ↪ 0	(None, 11, 11, 512)	┘
batch_normalization_2 ↪2,048 (BatchNormalization) ↪	(None, 11, 11, 512)	┘
max_pooling2d_2 (MaxPooling2D) ↪ 0	(None, 5, 5, 512)	┘
dropout_2 (Dropout) ↪ 0	(None, 5, 5, 512)	┘
flatten (Flatten) ↪ 0	(None, 12800)	┘
dense (Dense) ↪13,108,224	(None, 1024)	┘

activation_6 (Activation)	(None, 1024)	↳
↳ 0		
dropout_3 (Dropout)	(None, 1024)	↳
↳ 0		
dense_1 (Dense)	(None, 7)	↳
↳ 7,175		
activation_7 (Activation)	(None, 7)	↳
↳ 0		

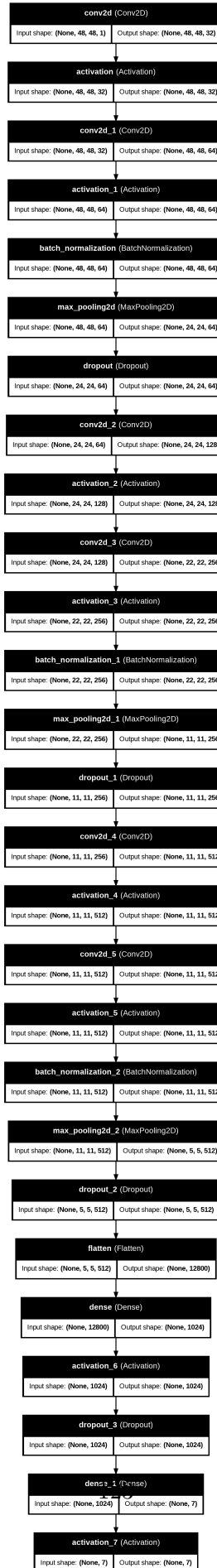
Total params: 17,046,535 (65.03 MB)

Trainable params: 17,044,871 (65.02 MB)

Non-trainable params: 1,664 (6.50 KB)

```
[ ]: plot_model(model, to_file = '/content/FER_2013_Emotion_Detection/
↳Custom_CNN_From_Scratch/Architecture.png',
      show_shapes=True, show_layer_names=True)
```

```
[ ]:
```



## 11 Understanding Callbacks

```
[ ]: # File path for the model checkpoint
cnn_path = '/content/FER_2013_Emotion_Detection/Custom_CNN_From_Scratch'
name = 'Custom_CNN_model.keras'
chk_path = os.path.join(cnn_path, name)
chk_path

[ ]: '/content/FER_2013_Emotion_Detection/Custom_CNN_From_Scratch/Custom_CNN_model.keras'

[ ]: # Callback to save the model checkpoint
checkpoint = ModelCheckpoint(filepath=chk_path,
                             save_best_only=True,
                             verbose=1,
                             mode='min',
                             monitor='val_loss')

[ ]: # Callback for early stopping
earlystop = EarlyStopping(monitor='val_loss',
                           min_delta=0,
                           patience=3,
                           verbose=1,
                           restore_best_weights=True)

[ ]: # Callback to reduce learning rate
reduce_lr = ReduceLROnPlateau(monitor='val_loss',
                               factor=0.2,
                               patience=6,
                               verbose=1,
                               min_delta=0.0001)

[ ]: # Callback to log training data to a CSV file
csv_logger = CSVLogger(os.path.join(cnn_path, 'training.log'))

[ ]: # Aggregating all callbacks into a list
callbacks = [checkpoint, earlystop, reduce_lr, csv_logger] # Adjusted as per
↳ your use-case
```

## 12 Calculating Steps for epoch

```
[ ]: train_generator.samples
```

```
[ ]: 22968
```

```
[ ]:
```

```
[ ]: train_steps_per_epoch = train_generator.samples // train_generator.batch_size + 1
      ↪1
      if train_generator.samples % train_generator.batch_size != 0:
          train_steps_per_epoch += 1
      validation_steps_epoch = validation_generator.samples // validation_generator.
      ↪batch_size + 1
      if validation_generator.samples % validation_generator.batch_size != 0:
          validation_steps_epoch += 1
      test_steps_epoch = test_generator.samples // test_generator.batch_size + 1
      if test_generator.samples % test_generator.batch_size != 0:
          test_steps_epoch += 1
```

## 13 Model Training

```
[ ]: history = model.fit(
      train_generator,
      steps_per_epoch=train_steps_per_epoch,
      epochs=10,
      validation_data=validation_generator,
      validation_steps=validation_steps_epoch,
      callbacks=callbacks)
```

Epoch 1/10

/usr/local/lib/python3.10/dist-

packages/keras/src/trainers/data\_adapters/py\_dataset\_adapter.py:121:

UserWarning: Your `PyDataset` class should call `super().\_\_init\_\_(\*\*kwargs)` in its constructor. `\*\*kwargs` can include `workers`, `use\_multiprocessing`, `max\_queue\_size`. Do not pass these arguments to `fit()`, as they will be ignored.

self.\_warn\_if\_super\_not\_called()

359/360                      0s 86ms/step -

accuracy: 0.2452 - loss: 13.2880

/usr/lib/python3.10/contextlib.py:153: UserWarning: Your input ran out of data; interrupting training. Make sure that your dataset or generator can generate at least `steps\_per\_epoch \* epochs` batches. You may need to use the `.repeat()` function when building your dataset.

self.gen.throw(typ, value, traceback)

Epoch 1: val\_loss improved from inf to 13.03651, saving model to /content/FER\_2013\_Emotion\_Detection/Custom\_CNN\_From\_Scratch/Custom\_CNN\_model.keras  
360/360 56s 111ms/step -  
accuracy: 0.2452 - loss: 13.2857 - val\_accuracy: 0.1768 - val\_loss: 13.0365 -  
learning\_rate: 1.0000e-04  
Epoch 2/10  
359/360 0s 59ms/step -  
accuracy: 0.3453 - loss: 10.7477  
Epoch 2: val\_loss improved from 13.03651 to 9.41261, saving model to /content/FER\_2013\_Emotion\_Detection/Custom\_CNN\_From\_Scratch/Custom\_CNN\_model.keras  
360/360 25s 69ms/step -  
accuracy: 0.3454 - loss: 10.7463 - val\_accuracy: 0.3879 - val\_loss: 9.4126 -  
learning\_rate: 1.0000e-04  
Epoch 3/10  
359/360 0s 60ms/step -  
accuracy: 0.3945 - loss: 8.6747  
Epoch 3: val\_loss improved from 9.41261 to 7.31205, saving model to /content/FER\_2013\_Emotion\_Detection/Custom\_CNN\_From\_Scratch/Custom\_CNN\_model.keras  
360/360 25s 69ms/step -  
accuracy: 0.3945 - loss: 8.6734 - val\_accuracy: 0.4388 - val\_loss: 7.3120 -  
learning\_rate: 1.0000e-04  
Epoch 4/10  
359/360 0s 58ms/step -  
accuracy: 0.4240 - loss: 6.8651  
Epoch 4: val\_loss improved from 7.31205 to 5.78762, saving model to /content/FER\_2013\_Emotion\_Detection/Custom\_CNN\_From\_Scratch/Custom\_CNN\_model.keras  
360/360 25s 69ms/step -  
accuracy: 0.4240 - loss: 6.8640 - val\_accuracy: 0.4579 - val\_loss: 5.7876 -  
learning\_rate: 1.0000e-04  
Epoch 5/10  
359/360 0s 57ms/step -  
accuracy: 0.4626 - loss: 5.3962  
Epoch 5: val\_loss improved from 5.78762 to 4.54627, saving model to /content/FER\_2013\_Emotion\_Detection/Custom\_CNN\_From\_Scratch/Custom\_CNN\_model.keras  
360/360 24s 67ms/step -  
accuracy: 0.4626 - loss: 5.3954 - val\_accuracy: 0.4855 - val\_loss: 4.5463 -  
learning\_rate: 1.0000e-04  
Epoch 6/10  
359/360 0s 58ms/step -  
accuracy: 0.4909 - loss: 4.2759  
Epoch 6: val\_loss improved from 4.54627 to 3.67908, saving model to /content/FER\_2013\_Emotion\_Detection/Custom\_CNN\_From\_Scratch/Custom\_CNN\_model.keras  
360/360 46s 80ms/step -  
accuracy: 0.4909 - loss: 4.2753 - val\_accuracy: 0.5025 - val\_loss: 3.6791 -  
learning\_rate: 1.0000e-04  
Epoch 7/10  
359/360 0s 59ms/step -

```

accuracy: 0.5203 - loss: 3.4203
Epoch 7: val_loss improved from 3.67908 to 2.98073, saving model to /content/FER
_2013_Emotion_Detection/Custom_CNN_From_Scratch/Custom_CNN_model.keras
360/360          24s 67ms/step -
accuracy: 0.5203 - loss: 3.4198 - val_accuracy: 0.5264 - val_loss: 2.9807 -
learning_rate: 1.0000e-04
Epoch 8/10
359/360          0s 58ms/step -
accuracy: 0.5487 - loss: 2.8171
Epoch 8: val_loss improved from 2.98073 to 2.58110, saving model to /content/FER
_2013_Emotion_Detection/Custom_CNN_From_Scratch/Custom_CNN_model.keras
360/360          24s 67ms/step -
accuracy: 0.5487 - loss: 2.8168 - val_accuracy: 0.5314 - val_loss: 2.5811 -
learning_rate: 1.0000e-04
Epoch 9/10
359/360          0s 58ms/step -
accuracy: 0.5609 - loss: 2.3872
Epoch 9: val_loss improved from 2.58110 to 2.19924, saving model to /content/FER
_2013_Emotion_Detection/Custom_CNN_From_Scratch/Custom_CNN_model.keras
360/360          41s 69ms/step -
accuracy: 0.5609 - loss: 2.3870 - val_accuracy: 0.5598 - val_loss: 2.1992 -
learning_rate: 1.0000e-04
Epoch 10/10
359/360          0s 59ms/step -
accuracy: 0.5876 - loss: 2.0534
Epoch 10: val_loss improved from 2.19924 to 2.02687, saving model to /content/FE
R_2013_Emotion_Detection/Custom_CNN_From_Scratch/Custom_CNN_model.keras
360/360          40s 67ms/step -
accuracy: 0.5876 - loss: 2.0533 - val_accuracy: 0.5497 - val_loss: 2.0269 -
learning_rate: 1.0000e-04
Restoring model weights from the end of the best epoch: 10.

```

## 14 Plotting Performance Metrics

```

[ ]: def plot_training_history(history):
    """
    Plots the training and validation accuracy and loss.

    Parameters:
    - history: A Keras History object. Contains the logs from the training
    ↪ process.

    Returns:
    - None. Displays the matplotlib plots for training/validation accuracy and
    ↪ loss.
    """

```

```

acc = history.history['accuracy']
val_acc = history.history['val_accuracy']
loss = history.history['loss']
val_loss = history.history['val_loss']

epochs_range = range(len(acc))

plt.figure(figsize=(20, 5))

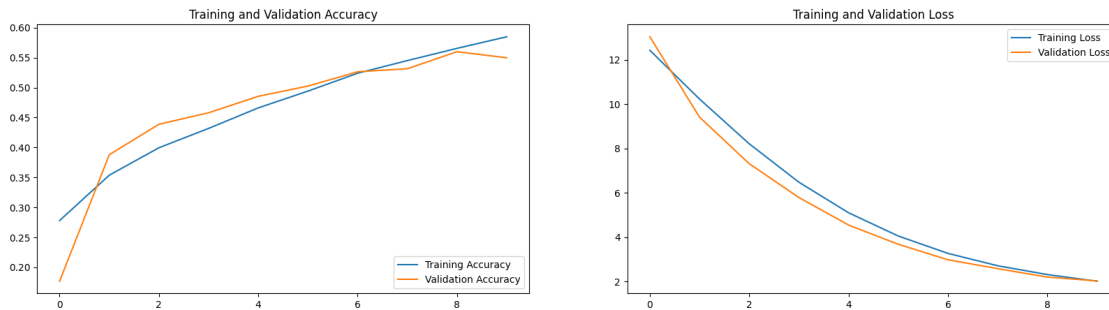
# Plot training and validation accuracy
plt.subplot(1, 2, 1)
plt.plot(epochs_range, acc, label='Training Accuracy')
plt.plot(epochs_range, val_acc, label='Validation Accuracy')
plt.legend(loc='lower right')
plt.title('Training and Validation Accuracy')

# Plot training and validation loss
plt.subplot(1, 2, 2)
plt.plot(epochs_range, loss, label='Training Loss')
plt.plot(epochs_range, val_loss, label='Validation Loss')
plt.legend(loc='upper right')
plt.title('Training and Validation Loss')

plt.show()

```

```
[ ]: plot_training_history(history)
```



## 15 Model Evaluation

```

[ ]: train_loss, train_accu = model.evaluate(train_generator)
test_loss, test_accu = model.evaluate(test_generator)
print("final train accuracy = {:.2f} , validation accuracy = {:.2f}".
      format(train_accu*100, test_accu*100))

```

359/359

11s 31ms/step -



```
accuracy: 0.6453 - loss: 1.7806
113/113          4s 34ms/step -
accuracy: 0.5510 - loss: 2.0005
final train accuracy = 64.12 , validation accuracy = 55.18
```

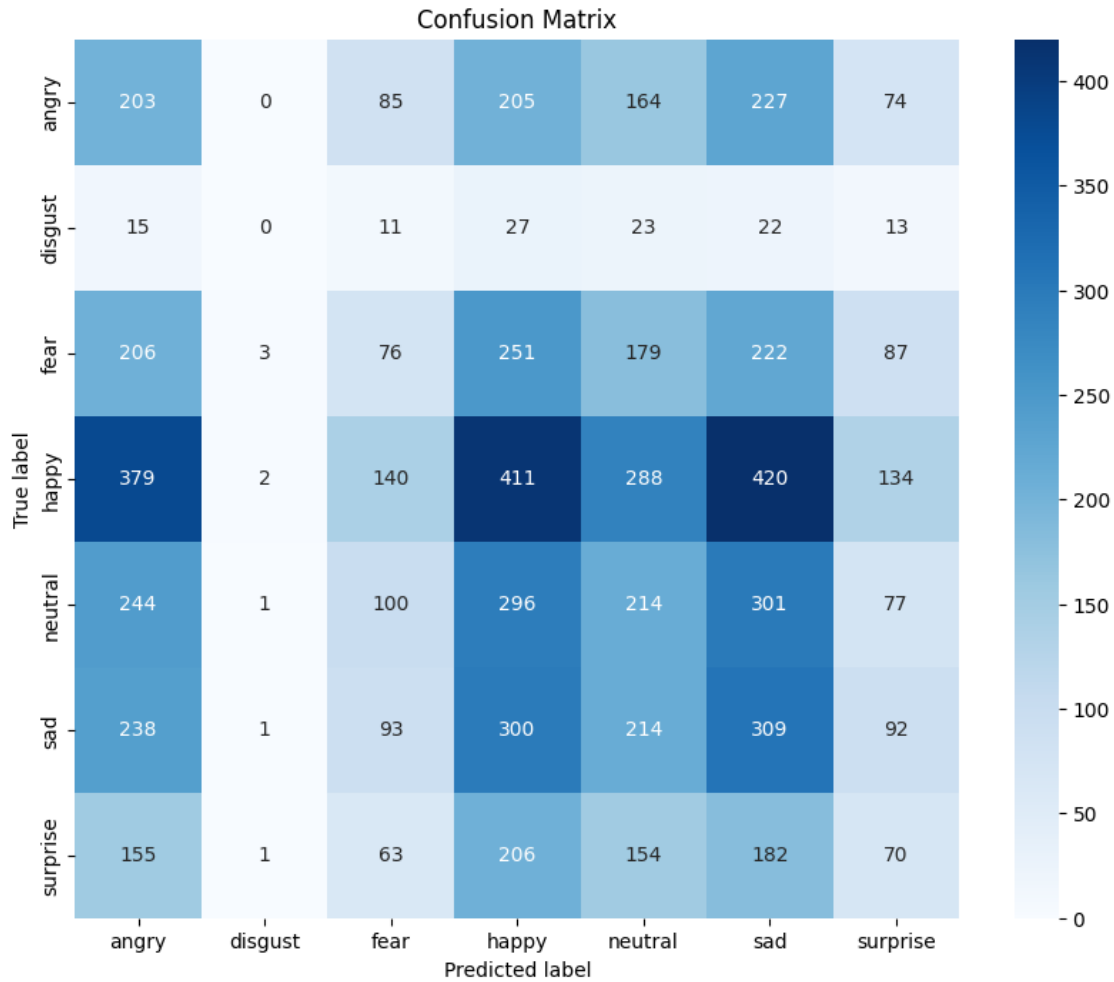
## 16 Plotting Confusion Matrix

```
[ ]: # Assuming your true_classes and predicted_classes are already defined
true_classes = test_generator.classes
predicted_classes = np.argmax(model.predict(test_generator, steps=int(np.
    ↪ ceil(test_generator.samples/test_generator.batch_size))), axis=1)
class_labels = list(test_generator.class_indices.keys())

# Generate the confusion matrix
cm = confusion_matrix(true_classes, predicted_classes)

# Plotting with seaborn
plt.figure(figsize=(10, 8))
sns.heatmap(cm, annot=True, fmt="d", cmap="Blues", xticklabels=class_labels,
    ↪ yticklabels=class_labels)
plt.title('Confusion Matrix')
plt.ylabel('True label')
plt.xlabel('Predicted label')
plt.show()
```

```
113/113          3s 23ms/step
```



```
[ ]: # Printing the classification report
report = classification_report(true_classes, predicted_classes,
    ↪target_names=class_labels)
print("Classification Report:\n", report)
```

Classification Report:

	precision	recall	f1-score	support
angry	0.14	0.21	0.17	958
disgust	0.00	0.00	0.00	111
fear	0.13	0.07	0.10	1024
happy	0.24	0.23	0.24	1774
neutral	0.17	0.17	0.17	1233
sad	0.18	0.25	0.21	1247
surprise	0.13	0.08	0.10	831
accuracy			0.18	7178

macro avg	0.14	0.15	0.14	7178
weighted avg	0.17	0.18	0.17	7178

## 17 Making Predictions

```
[ ]: # Emotion classes for the dataset
Emotion_Classes = ['Angry', 'Disgust', 'Fear', 'Happy', 'Neutral', 'Sad',
↳ 'Surprise']

# Assuming test_generator and model are already defined
batch_size = test_generator.batch_size

# Selecting a random batch from the test generator
Random_batch = np.random.randint(0, len(test_generator) - 1)

# Selecting random image indices from the batch
Random_Img_Index = np.random.randint(0, batch_size, 10)

# Setting up the plot
fig, axes = plt.subplots(nrows=2, ncols=5, figsize=(10, 5),
↳ subplot_kw={'xticks': [], 'yticks': []})

for i, ax in enumerate(axes.flat):
    # Fetching the random image and its label
    Random_Img = test_generator[Random_batch][0][Random_Img_Index[i]]
    Random_Img_Label = np.
↳ argmax(test_generator[Random_batch][1][Random_Img_Index[i]], axis=0)

    # Making a prediction using the model
    Model_Prediction = np.argmax(model.predict(tf.expand_dims(Random_Img,
↳ axis=0), verbose=0), axis=1)[0]

    # Displaying the image
    ax.imshow(Random_Img.squeeze(), cmap='gray') # Assuming the images are
↳ grayscale
    # Setting the title with true and predicted labels, colored based on
↳ correctness
    color = "green" if Emotion_Classes[Random_Img_Label] ==
↳ Emotion_Classes[Model_Prediction] else "red"
    ax.set_title(f"True: {Emotion_Classes[Random_Img_Label]}\nPredicted:
↳ {Emotion_Classes[Model_Prediction]}", color=color)

plt.tight_layout()
plt.show()
```



## 18 Model 2: Image Augmentation

```
[ ]: # Define paths to the train and validation directories
train_data_dir = '/content/train'
test_data_dir = '/content/test'
# validation_data_dir = '/content/emotion_detection_project/datasets/raw/test'

# Set some parameters
img_width, img_height = 48, 48 # Size of images
batch_size = 64
epochs = 10
num_classes = 7 # Update this based on the number of your classes

# Initializing the ImageDataGenerator with data augmentation options for the
↳ training set
data_generator = ImageDataGenerator(
    rescale=1./255, # Rescale the pixel values from [0, 255] to [0, 1]
    rotation_range=40, # Degree range for random rotations
    width_shift_range=0.2, # Range (as a fraction of total width) for random
    ↳ horizontal shifts
    height_shift_range=0.2, # Range (as a fraction of total height) for random
    ↳ vertical shifts
    shear_range=0.2, # Shearing intensity (shear angle in counter-clockwise
    ↳ direction)
    zoom_range=0.2, # Range for random zoom
    horizontal_flip=True, # Randomly flip inputs horizontally
```

```

        fill_mode='nearest', # Strategy to fill newly created pixels, which can
        ↪ appear after a rotation or a width/height shift
        validation_split=0.2 # Set the validation split; 20% of the data will be
        ↪ used for validation
    )

test_data_generator = ImageDataGenerator(rescale=1./255)

# Automatically retrieve images and their classes for train and validation sets
train_generator = data_generator.flow_from_directory(
    train_data_dir,
    target_size=(img_width, img_height),
    batch_size=batch_size,
    class_mode='categorical',
    color_mode='grayscale',
    subset='training')

validation_generator = data_generator.flow_from_directory(
    train_data_dir,
    target_size=(img_width, img_height),
    batch_size=batch_size,
    class_mode='categorical',
    color_mode='grayscale',
    subset='validation')

test_generator = test_data_generator.flow_from_directory(
    test_data_dir,
    target_size=(img_width, img_height),
    batch_size=batch_size,
    class_mode='categorical',
    color_mode='grayscale'
)

```

Found 22968 images belonging to 7 classes.

Found 5741 images belonging to 7 classes.

Found 7178 images belonging to 7 classes.

```

[ ]: # Path to your specific image
image_path = '/content/train/angry/Training_10118481.jpg'

# Load and convert the image to an array
img = load_img(image_path, color_mode='grayscale', target_size=(img_width,
    ↪ img_height)) # Adjust color_mode if necessary
img_array = img_to_array(img) # Converts the image to a numpy array
img_array = img_array.reshape((1,) + img_array.shape) # Reshapes the image to
    ↪ (1, width, height, channels) for the generator

```

```

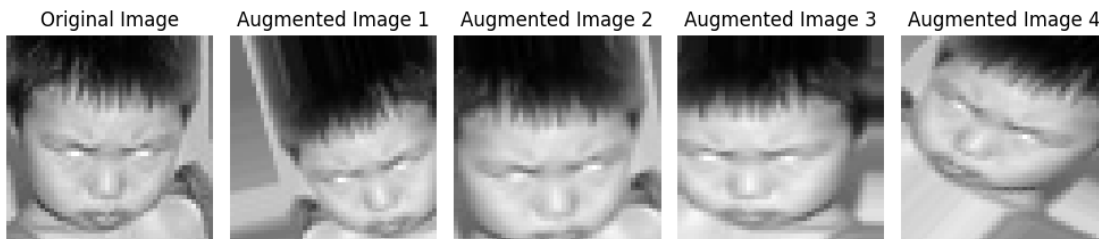
# Setting up the plot
fig, axes = plt.subplots(nrows=1, ncols=5, figsize=(10, 4))
# Plot the original image first. Since img_array is a 3D array after reshaping,
↳we use[:, :, 0]
axes[0].imshow(img_array[0, :, :, 0], cmap='gray')
axes[0].set_title('Original Image')
axes[0].axis('off')

# Generate and plot augmented images
for i, ax in enumerate(axes.flat[1:]): # Start from the second subplot
    # Generate a batch of augmented images
    aug_iter = data_generator.flow(img_array, batch_size=1)
    aug_img = next(aug_iter)[0] # Get the first augmented image from the batch

    # Plot the augmented image. We directly use[:, :, 0] without an initial
↳batch index
    ax.imshow(aug_img[:, :, 0], cmap='gray')
    ax.set_title(f'Augmented Image {i+1}')
    ax.axis('off')

plt.tight_layout()
plt.show()

```



## 19 Same CNN Model as above

```

[ ]: # Assuming img_width, img_height, and classes are defined. For example:
img_width, img_height = 48, 48
classes = 7

#Initialising the CNN
model = tf.keras.models.Sequential()

# Adding convolutional layers with activations on separate lines
model.add(Conv2D(32, kernel_size=(3, 3), padding='same',
↳input_shape=(img_width, img_height, 1)))

```

```

model.add(tf.keras.layers.Activation('relu'))
model.add(Conv2D(64, kernel_size=(3, 3), padding='same'))
model.add(tf.keras.layers.Activation('relu'))
model.add(BatchNormalization())
model.add(MaxPooling2D(2, 2))
model.add(Dropout(0.25))

model.add(Conv2D(128, kernel_size=(3, 3), padding='same',
    ↪kernel_regularizer=regularizers.l2(0.01)))
model.add(tf.keras.layers.Activation('relu'))
model.add(Conv2D(256, kernel_size=(3, 3), kernel_regularizer=regularizers.l2(0.
    ↪0.01)))
model.add(tf.keras.layers.Activation('relu'))
model.add(BatchNormalization())
model.add(MaxPooling2D(pool_size=(2, 2)))
model.add(Dropout(0.25))

model.add(Conv2D(512, kernel_size=(3, 3), padding='same',
    ↪kernel_regularizer=regularizers.l2(0.01)))
model.add(tf.keras.layers.Activation('relu'))
model.add(Conv2D(512, kernel_size=(3, 3), padding='same',
    ↪kernel_regularizer=regularizers.l2(0.01)))
model.add(tf.keras.layers.Activation('relu'))
model.add(BatchNormalization())
model.add(MaxPooling2D(pool_size=(2, 2)))
model.add(Dropout(0.25))

# Flattening and adding dense layers
model.add(Flatten())
model.add(Dense(1024))
model.add(tf.keras.layers.Activation('relu'))
model.add(Dropout(0.5))

model.add(Dense(classes))
model.add(tf.keras.layers.Activation('softmax'))

# Compiling the model
model.compile(optimizer=tf.keras.optimizers.Adam(learning_rate=0.0001),
              loss='categorical_crossentropy',
              metrics=['accuracy'])

# File path for the model checkpoint
cnn_path = '/content/FER_2013_Emotion_Detection/Custom_CNN_With_Augmentation'
name = 'Custom_CNN_augmented_model.keras'
chk_path = os.path.join(cnn_path, name)

```

```

# Callback to save the model checkpoint
checkpoint = ModelCheckpoint(filepath=chk_path,
                             save_best_only=True,
                             verbose=1,
                             mode='min',
                             monitor='val_loss')

# Callback for early stopping
earlystop = EarlyStopping(monitor='val_loss',
                           min_delta=0,
                           patience=3,
                           verbose=1,
                           restore_best_weights=True)

# Callback to reduce learning rate
reduce_lr = ReduceLROnPlateau(monitor='val_loss',
                               factor=0.2,
                               patience=6,
                               verbose=1,
                               min_delta=0.0001)

# Callback to log training data to a CSV file
csv_logger = CSVLogger(os.path.join(cnn_path, 'training.log'))

# Aggregating all callbacks into a list
callbacks = [checkpoint, earlystop, reduce_lr, csv_logger] # Adjusted as per
↳ your use-case

train_steps_per_epoch = train_generator.samples // train_generator.batch_size + 1
↳ 1
if train_generator.samples % train_generator.batch_size != 0:
    train_steps_per_epoch += 1
validation_steps_epoch = validation_generator.samples // validation_generator.
↳ batch_size + 1
if validation_generator.samples % validation_generator.batch_size != 0:
    validation_steps_epoch += 1
test_steps_epoch = test_generator.samples // test_generator.batch_size + 1
if test_generator.samples % test_generator.batch_size != 0:
    test_steps_epoch += 1

history = model.fit(
    train_generator,
    steps_per_epoch=train_steps_per_epoch,
    epochs=100,
    validation_data=validation_generator,
    validation_steps=validation_steps_epoch,
    callbacks=callbacks)

```



```
/usr/local/lib/python3.10/dist-  
packages/keras/src/layers/convolutional/base_conv.py:107: UserWarning: Do not  
pass an `input_shape`/`input_dim` argument to a layer. When using Sequential  
models, prefer using an `Input(shape)` object as the first layer in the model  
instead.
```

```
    super().__init__(activity_regularizer=activity_regularizer, **kwargs)
```

Epoch 1/100

```
/usr/local/lib/python3.10/dist-  
packages/keras/src/trainers/data_adapters/py_dataset_adapter.py:121:  
UserWarning: Your `PyDataset` class should call `super().__init__(**kwargs)` in  
its constructor. `**kwargs` can include `workers`, `use_multiprocessing`,  
`max_queue_size`. Do not pass these arguments to `fit()`, as they will be  
ignored.
```

```
    self._warn_if_super_not_called()
```

359/360                      0s 84ms/step -

accuracy: 0.2057 - loss: 13.5202

```
/usr/lib/python3.10/contextlib.py:153: UserWarning: Your input ran out of data;  
interrupting training. Make sure that your dataset or generator can generate at  
least `steps_per_epoch * epochs` batches. You may need to use the `.repeat()`  
function when building your dataset.
```

```
    self.gen.throw(typ, value, traceback)
```

Epoch 1: val\_loss improved from inf to 13.46542, saving model to /content/FER\_2013\_Emotion\_Detection/Custom\_CNN\_With\_Augmentation/Custom\_CNN\_augmented\_model.keras

360/360                      47s 104ms/step -

accuracy: 0.2058 - loss: 13.5173 - val\_accuracy: 0.2165 - val\_loss: 13.4654 -  
learning\_rate: 1.0000e-04

Epoch 2/100

359/360                      0s 69ms/step -

accuracy: 0.2393 - loss: 10.7368

Epoch 2: val\_loss improved from 13.46542 to 10.82277, saving model to /content/FER\_2013\_Emotion\_Detection/Custom\_CNN\_With\_Augmentation/Custom\_CNN\_augmented\_model.keras

360/360                      32s 88ms/step -

accuracy: 0.2393 - loss: 10.7353 - val\_accuracy: 0.2329 - val\_loss: 10.8228 -  
learning\_rate: 1.0000e-04

Epoch 3/100

359/360                      0s 71ms/step -

accuracy: 0.2462 - loss: 8.5826

Epoch 3: val\_loss improved from 10.82277 to 7.40798, saving model to /content/FER\_2013\_Emotion\_Detection/Custom\_CNN\_With\_Augmentation/Custom\_CNN\_augmented\_model.keras

360/360                      32s 89ms/step -

accuracy: 0.2462 - loss: 8.5812 - val\_accuracy: 0.2557 - val\_loss: 7.4080 -

```

learning_rate: 1.0000e-04
Epoch 4/100
359/360          0s 70ms/step -
accuracy: 0.2493 - loss: 6.6834
Epoch 4: val_loss improved from 7.40798 to 6.22080, saving model to /content/FER
_2013_Emotion_Detection/Custom_CNN_With_Augmentation/Custom_CNN_augmented_model.
keras
360/360          37s 103ms/step -
accuracy: 0.2494 - loss: 6.6823 - val_accuracy: 0.2594 - val_loss: 6.2208 -
learning_rate: 1.0000e-04
Epoch 5/100
359/360          0s 71ms/step -
accuracy: 0.2636 - loss: 5.1820
Epoch 5: val_loss improved from 6.22080 to 4.32406, saving model to /content/FER
_2013_Emotion_Detection/Custom_CNN_With_Augmentation/Custom_CNN_augmented_model.
keras
360/360          32s 89ms/step -
accuracy: 0.2636 - loss: 5.1812 - val_accuracy: 0.2574 - val_loss: 4.3241 -
learning_rate: 1.0000e-04
Epoch 6/100
359/360          0s 68ms/step -
accuracy: 0.2613 - loss: 4.0741
Epoch 6: val_loss improved from 4.32406 to 3.46600, saving model to /content/FER
_2013_Emotion_Detection/Custom_CNN_With_Augmentation/Custom_CNN_augmented_model.
keras
360/360          32s 87ms/step -
accuracy: 0.2613 - loss: 4.0734 - val_accuracy: 0.2533 - val_loss: 3.4660 -
learning_rate: 1.0000e-04
Epoch 7/100
359/360          0s 73ms/step -
accuracy: 0.2680 - loss: 3.2990
Epoch 7: val_loss improved from 3.46600 to 2.92676, saving model to /content/FER
_2013_Emotion_Detection/Custom_CNN_With_Augmentation/Custom_CNN_augmented_model.
keras
360/360          33s 92ms/step -
accuracy: 0.2680 - loss: 3.2986 - val_accuracy: 0.2742 - val_loss: 2.9268 -
learning_rate: 1.0000e-04
Epoch 8/100
359/360          0s 68ms/step -
accuracy: 0.2830 - loss: 2.7605
Epoch 8: val_loss improved from 2.92676 to 2.52875, saving model to /content/FER
_2013_Emotion_Detection/Custom_CNN_With_Augmentation/Custom_CNN_augmented_model.
keras
360/360          32s 87ms/step -
accuracy: 0.2830 - loss: 2.7602 - val_accuracy: 0.2872 - val_loss: 2.5287 -
learning_rate: 1.0000e-04
Epoch 9/100
359/360          0s 71ms/step -

```

```

accuracy: 0.3054 - loss: 2.3879
Epoch 9: val_loss improved from 2.52875 to 2.29388, saving model to /content/FE
R_2013_Emotion_Detection/Custom_CNN_With_Augmentation/Custom_CNN_augmented_model
.keras
360/360          31s 86ms/step -
accuracy: 0.3054 - loss: 2.3877 - val_accuracy: 0.2945 - val_loss: 2.2939 -
learning_rate: 1.0000e-04
Epoch 10/100
359/360          0s 70ms/step -
accuracy: 0.3241 - loss: 2.1499
Epoch 10: val_loss improved from 2.29388 to 2.09613, saving model to /content/FE
R_2013_Emotion_Detection/Custom_CNN_With_Augmentation/Custom_CNN_augmented_model
.keras
360/360          32s 89ms/step -
accuracy: 0.3242 - loss: 2.1498 - val_accuracy: 0.3435 - val_loss: 2.0961 -
learning_rate: 1.0000e-04
Epoch 11/100
359/360          0s 70ms/step -
accuracy: 0.3710 - loss: 1.9557
Epoch 11: val_loss improved from 2.09613 to 1.96313, saving model to /content/FE
R_2013_Emotion_Detection/Custom_CNN_With_Augmentation/Custom_CNN_augmented_model
.keras
360/360          41s 89ms/step -
accuracy: 0.3711 - loss: 1.9556 - val_accuracy: 0.3862 - val_loss: 1.9631 -
learning_rate: 1.0000e-04
Epoch 12/100
359/360          0s 69ms/step -
accuracy: 0.4162 - loss: 1.8232
Epoch 12: val_loss did not improve from 1.96313
360/360          39s 84ms/step -
accuracy: 0.4162 - loss: 1.8232 - val_accuracy: 0.2841 - val_loss: 2.1805 -
learning_rate: 1.0000e-04
Epoch 13/100
359/360          0s 68ms/step -
accuracy: 0.4404 - loss: 1.7128
Epoch 13: val_loss improved from 1.96313 to 1.66756, saving model to /content/FE
R_2013_Emotion_Detection/Custom_CNN_With_Augmentation/Custom_CNN_augmented_model
.keras
360/360          48s 104ms/step -
accuracy: 0.4404 - loss: 1.7128 - val_accuracy: 0.4504 - val_loss: 1.6676 -
learning_rate: 1.0000e-04
Epoch 14/100
359/360          0s 69ms/step -
accuracy: 0.4550 - loss: 1.6505
Epoch 14: val_loss improved from 1.66756 to 1.64806, saving model to /content/FE
R_2013_Emotion_Detection/Custom_CNN_With_Augmentation/Custom_CNN_augmented_model
.keras
360/360          34s 86ms/step -

```

```

accuracy: 0.4550 - loss: 1.6504 - val_accuracy: 0.4522 - val_loss: 1.6481 -
learning_rate: 1.0000e-04
Epoch 15/100
359/360          0s 73ms/step -
accuracy: 0.4785 - loss: 1.5812
Epoch 15: val_loss improved from 1.64806 to 1.61877, saving model to /content/FE
R_2013_Emotion_Detection/Custom_CNN_With_Augmentation/Custom_CNN_augmented_model
.keras
360/360          45s 98ms/step -
accuracy: 0.4785 - loss: 1.5812 - val_accuracy: 0.4511 - val_loss: 1.6188 -
learning_rate: 1.0000e-04
Epoch 16/100
359/360          0s 68ms/step -
accuracy: 0.4892 - loss: 1.5280
Epoch 16: val_loss improved from 1.61877 to 1.52010, saving model to /content/FE
R_2013_Emotion_Detection/Custom_CNN_With_Augmentation/Custom_CNN_augmented_model
.keras
360/360          31s 85ms/step -
accuracy: 0.4892 - loss: 1.5280 - val_accuracy: 0.4870 - val_loss: 1.5201 -
learning_rate: 1.0000e-04
Epoch 17/100
359/360          0s 70ms/step -
accuracy: 0.4944 - loss: 1.5134
Epoch 17: val_loss improved from 1.52010 to 1.49883, saving model to /content/FE
R_2013_Emotion_Detection/Custom_CNN_With_Augmentation/Custom_CNN_augmented_model
.keras
360/360          41s 85ms/step -
accuracy: 0.4944 - loss: 1.5134 - val_accuracy: 0.4931 - val_loss: 1.4988 -
learning_rate: 1.0000e-04
Epoch 18/100
359/360          0s 69ms/step -
accuracy: 0.5050 - loss: 1.4649
Epoch 18: val_loss did not improve from 1.49883
360/360          30s 81ms/step -
accuracy: 0.5050 - loss: 1.4649 - val_accuracy: 0.4482 - val_loss: 1.6177 -
learning_rate: 1.0000e-04
Epoch 19/100
359/360          0s 68ms/step -
accuracy: 0.5120 - loss: 1.4603
Epoch 19: val_loss improved from 1.49883 to 1.41487, saving model to /content/FE
R_2013_Emotion_Detection/Custom_CNN_With_Augmentation/Custom_CNN_augmented_model
.keras
360/360          37s 101ms/step -
accuracy: 0.5120 - loss: 1.4603 - val_accuracy: 0.5252 - val_loss: 1.4149 -
learning_rate: 1.0000e-04
Epoch 20/100
359/360          0s 85ms/step -
accuracy: 0.5182 - loss: 1.4274

```

Epoch 20: val\_loss improved from 1.41487 to 1.39925, saving model to /content/FE  
R\_2013\_Emotion\_Detection/Custom\_CNN\_With\_Augmentation/Custom\_CNN\_augmented\_model  
.keras

360/360 40s 100ms/step -

accuracy: 0.5182 - loss: 1.4274 - val\_accuracy: 0.5271 - val\_loss: 1.3992 -  
learning\_rate: 1.0000e-04

Epoch 21/100

359/360 0s 69ms/step -

accuracy: 0.5341 - loss: 1.4004

Epoch 21: val\_loss did not improve from 1.39925

360/360 34s 81ms/step -

accuracy: 0.5341 - loss: 1.4004 - val\_accuracy: 0.5177 - val\_loss: 1.4271 -  
learning\_rate: 1.0000e-04

Epoch 22/100

359/360 0s 70ms/step -

accuracy: 0.5260 - loss: 1.4005

Epoch 22: val\_loss did not improve from 1.39925

360/360 30s 81ms/step -

accuracy: 0.5260 - loss: 1.4004 - val\_accuracy: 0.5292 - val\_loss: 1.3994 -  
learning\_rate: 1.0000e-04

Epoch 23/100

359/360 0s 74ms/step -

accuracy: 0.5313 - loss: 1.3814

Epoch 23: val\_loss did not improve from 1.39925

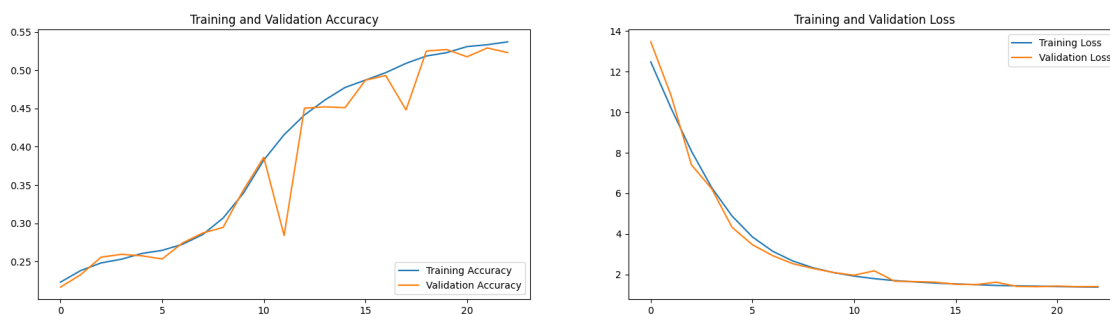
360/360 32s 88ms/step -

accuracy: 0.5314 - loss: 1.3814 - val\_accuracy: 0.5231 - val\_loss: 1.4058 -  
learning\_rate: 1.0000e-04

Epoch 23: early stopping

Restoring model weights from the end of the best epoch: 20.

```
[ ]: plot_training_history(history)
```



```
[ ]: train_loss, train_accu = model.evaluate(train_generator)
test_loss, test_accu = model.evaluate(test_generator)
```

```
print("final train accuracy = {:.2f} , validation accuracy = {:.2f}".
      ↪format(train_accu*100, test_accu*100))
```

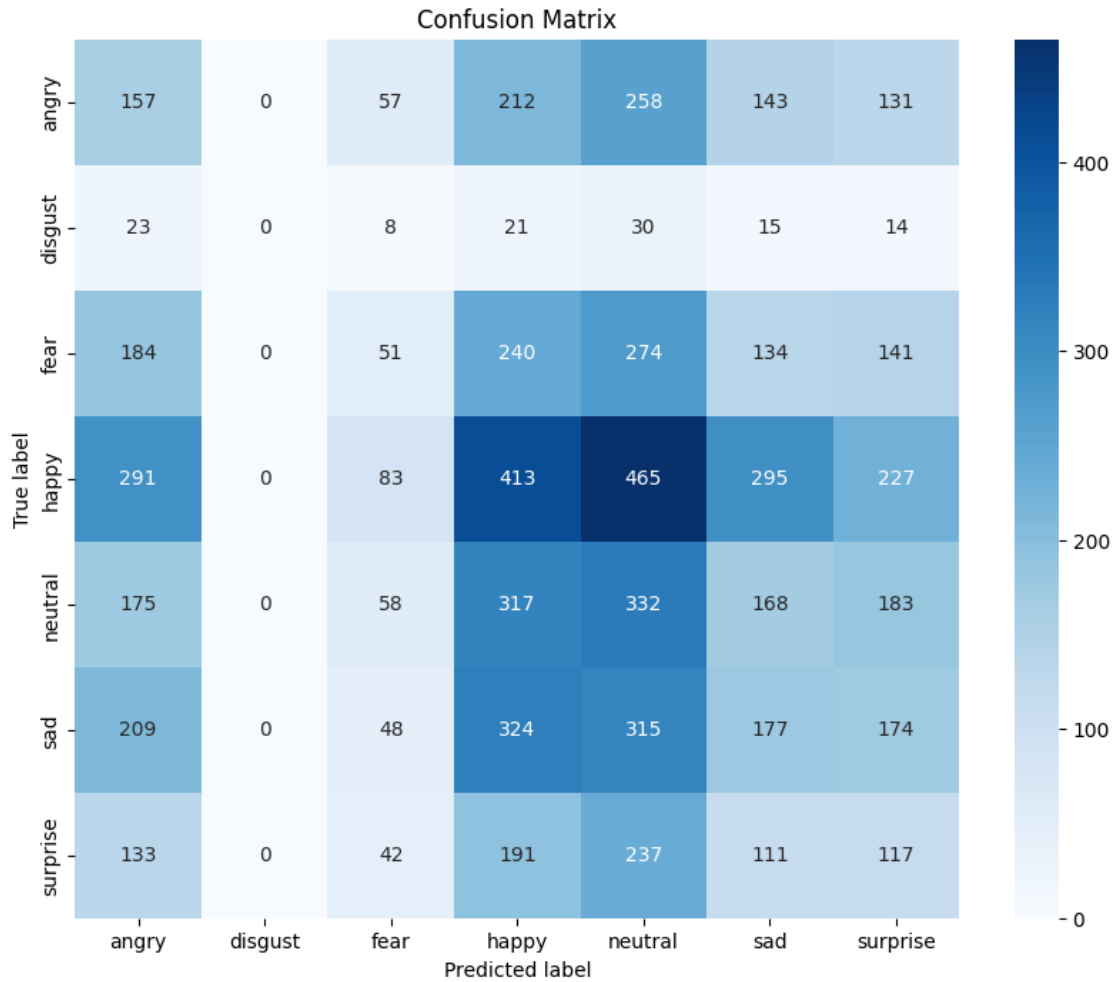
```
359/359          22s 60ms/step -
accuracy: 0.5340 - loss: 1.3719
113/113          3s 25ms/step -
accuracy: 0.5616 - loss: 1.2889
final train accuracy = 53.62 , validation accuracy = 56.70
```

```
[ ]: # Assuming your true_classes and predicted_classes are already defined
true_classes = test_generator.classes
predicted_classes = np.argmax(model.predict(test_generator, steps=int(np.
    ↪ceil(test_generator.samples/test_generator.batch_size))), axis=1)
class_labels = list(test_generator.class_indices.keys())

# Generate the confusion matrix
cm = confusion_matrix(true_classes, predicted_classes)

# Plotting with seaborn
plt.figure(figsize=(10, 8))
sns.heatmap(cm, annot=True, fmt="d", cmap="Blues", xticklabels=class_labels,
    ↪yticklabels=class_labels)
plt.title('Confusion Matrix')
plt.ylabel('True label')
plt.xlabel('Predicted label')
plt.show()
```

```
113/113          6s 43ms/step
```



```
[ ]: # Printing the classification report
report = classification_report(true_classes,
                               predicted_classes,
                               target_names=class_labels,
                               zero_division=0)
print("Classification Report:\n", report)
```

Classification Report:

	precision	recall	f1-score	support
angry	0.13	0.16	0.15	958
disgust	0.00	0.00	0.00	111
fear	0.15	0.05	0.07	1024
happy	0.24	0.23	0.24	1774
neutral	0.17	0.27	0.21	1233
sad	0.17	0.14	0.15	1247
surprise	0.12	0.14	0.13	831

accuracy			0.17	7178
macro avg	0.14	0.14	0.14	7178
weighted avg	0.17	0.17	0.17	7178

## 20 Model 3: Transfer Learning VGGNET

```
[ ]: # Define paths to the train and validation directories
train_data_dir = '/content/train'
test_data_dir = '/content/test'

# validation_data_dir = '/content/emotion_detection_project/datasets/raw/test'

# Set some parameters
img_width, img_height = 224, 224 # Size of images
batch_size = 64
epochs = 10
num_classes = 7 # Update this based on the number of your classes

# Rescale the pixel values (0-255) to the [0, 1] interval
data_generator = ImageDataGenerator(
    rescale = 1 / 255.,
    rotation_range=10,
    zoom_range=0.2,
    width_shift_range=0.1,
    height_shift_range=0.1,
    horizontal_flip=True,
    fill_mode='nearest',
    # validation_split=0.2
)

test_preprocessor = ImageDataGenerator(
    rescale = 1 / 255.,
)

# Automatically retrieve images and their classes for train and validation sets
train_generator = data_generator.flow_from_directory(
    train_data_dir,
    target_size=(img_width, img_height),
    batch_size=batch_size,
    class_mode='categorical',
    color_mode='rgb',
    subset='training',
```



```

shuffle = True)

test_generator = test_preprocessor.flow_from_directory(
    test_data_dir,
    target_size=(img_width, img_height),
    batch_size=batch_size,
    class_mode='categorical',
    color_mode='rgb',)
    # subset='validation')

```

Found 28709 images belonging to 7 classes.

Found 7178 images belonging to 7 classes.

```

[ ]: classes = 7

# Clear the previous TensorFlow session
tf.keras.backend.clear_session()

# Load the VGG16 base model, excluding its top (fully connected) layers
vgg = VGG16(input_shape=(224, 224, 3), include_top=False, weights='imagenet')
vgg.summary()

```

Downloading data from [https://storage.googleapis.com/tensorflow/keras-applications/vgg16/vgg16\\_weights\\_tf\\_dim\\_ordering\\_tf\\_kernels\\_notop.h5](https://storage.googleapis.com/tensorflow/keras-applications/vgg16/vgg16_weights_tf_dim_ordering_tf_kernels_notop.h5)  
58889256/58889256 4s  
0us/step

Model: "vgg16"

Layer (type)	Output Shape	
Param #		
input_layer (InputLayer)	(None, 224, 224, 3)	
↪ 0		
block1_conv1 (Conv2D)	(None, 224, 224, 64)	
↪ 1,792		
block1_conv2 (Conv2D)	(None, 224, 224, 64)	
↪ 36,928		
block1_pool (MaxPooling2D)	(None, 112, 112, 64)	
↪ 0		
block2_conv1 (Conv2D)	(None, 112, 112, 128)	
↪ 73,856		

block2_conv2 (Conv2D)	(None, 112, 112, 128)	└
↪147,584		
block2_pool (MaxPooling2D)	(None, 56, 56, 128)	└
↪ 0		
block3_conv1 (Conv2D)	(None, 56, 56, 256)	└
↪295,168		
block3_conv2 (Conv2D)	(None, 56, 56, 256)	└
↪590,080		
block3_conv3 (Conv2D)	(None, 56, 56, 256)	└
↪590,080		
block3_pool (MaxPooling2D)	(None, 28, 28, 256)	└
↪ 0		
block4_conv1 (Conv2D)	(None, 28, 28, 512)	└
↪1,180,160		
block4_conv2 (Conv2D)	(None, 28, 28, 512)	└
↪2,359,808		
block4_conv3 (Conv2D)	(None, 28, 28, 512)	└
↪2,359,808		
block4_pool (MaxPooling2D)	(None, 14, 14, 512)	└
↪ 0		
block5_conv1 (Conv2D)	(None, 14, 14, 512)	└
↪2,359,808		
block5_conv2 (Conv2D)	(None, 14, 14, 512)	└
↪2,359,808		
block5_conv3 (Conv2D)	(None, 14, 14, 512)	└
↪2,359,808		
block5_pool (MaxPooling2D)	(None, 7, 7, 512)	└
↪ 0		

Total params: 14,714,688 (56.13 MB)

Trainable params: 14,714,688 (56.13 MB)

Non-trainable params: 0 (0.00 B)

```
[ ]: # Make the specified layers non-trainable
for layer in vgg.layers[:-3]:
    layer.trainable = False

vgg.summary()
```

Model: "vgg16"

Layer (type)	Output Shape	
↳Param #		
input_layer (InputLayer)	(None, 224, 224, 3)	↳
↳ 0		
block1_conv1 (Conv2D)	(None, 224, 224, 64)	↳
↳1,792		
block1_conv2 (Conv2D)	(None, 224, 224, 64)	↳
↳36,928		
block1_pool (MaxPooling2D)	(None, 112, 112, 64)	↳
↳ 0		
block2_conv1 (Conv2D)	(None, 112, 112, 128)	↳
↳73,856		
block2_conv2 (Conv2D)	(None, 112, 112, 128)	↳
↳147,584		
block2_pool (MaxPooling2D)	(None, 56, 56, 128)	↳
↳ 0		
block3_conv1 (Conv2D)	(None, 56, 56, 256)	↳
↳295,168		
block3_conv2 (Conv2D)	(None, 56, 56, 256)	↳
↳590,080		
block3_conv3 (Conv2D)	(None, 56, 56, 256)	↳
↳590,080		

block3_pool (MaxPooling2D)	(None, 28, 28, 256)	└
↪ 0		
block4_conv1 (Conv2D)	(None, 28, 28, 512)	└
↪ 1,180,160		
block4_conv2 (Conv2D)	(None, 28, 28, 512)	└
↪ 2,359,808		
block4_conv3 (Conv2D)	(None, 28, 28, 512)	└
↪ 2,359,808		
block4_pool (MaxPooling2D)	(None, 14, 14, 512)	└
↪ 0		
block5_conv1 (Conv2D)	(None, 14, 14, 512)	└
↪ 2,359,808		
block5_conv2 (Conv2D)	(None, 14, 14, 512)	└
↪ 2,359,808		
block5_conv3 (Conv2D)	(None, 14, 14, 512)	└
↪ 2,359,808		
block5_pool (MaxPooling2D)	(None, 7, 7, 512)	└
↪ 0		

Total params: 14,714,688 (56.13 MB)

Trainable params: 4,719,616 (18.00 MB)

Non-trainable params: 9,995,072 (38.13 MB)

```
[ ]: # Flattening the layer and adding custom Dense layers
x = Flatten()(vgg.output)

# Adding a fully connected layer with ReLU activation and He normal initializer
x = Dense(1024, activation='relu', kernel_initializer='he_normal')(x)
x = Dropout(0.5)(x) # Adding dropout for regularization

x = Dense(512, activation='relu', kernel_initializer='he_normal')(x)
x = Dropout(0.5)(x) # Adding dropout for regularization
```

```

# Adding the output layer with softmax activation
# Note: Adjust the number of units to match the number of classes you have
output = Dense(classes, activation='softmax', kernel_initializer='he_normal')(x)

# Creating the model
model = Model(inputs=vgg.input, outputs=output)

# Compile the model
model.compile(loss='categorical_crossentropy',
              optimizer=tf.keras.optimizers.Adam(learning_rate=0.0001, beta_1=0.
↳9, beta_2=0.999, amsgrad=False),
              metrics=['accuracy'])

# Model summary to see all layers
model.summary()

```

Model: "functional"

Layer (type) ↳Param #	Output Shape	
input_layer (InputLayer) ↳ 0	(None, 224, 224, 3)	↳
block1_conv1 (Conv2D) ↳1,792	(None, 224, 224, 64)	↳
block1_conv2 (Conv2D) ↳36,928	(None, 224, 224, 64)	↳
block1_pool (MaxPooling2D) ↳ 0	(None, 112, 112, 64)	↳
block2_conv1 (Conv2D) ↳73,856	(None, 112, 112, 128)	↳
block2_conv2 (Conv2D) ↳147,584	(None, 112, 112, 128)	↳
block2_pool (MaxPooling2D) ↳ 0	(None, 56, 56, 128)	↳
block3_conv1 (Conv2D) ↳295,168	(None, 56, 56, 256)	↳

block3_conv2 (Conv2D) ↪590,080	(None, 56, 56, 256)	└
block3_conv3 (Conv2D) ↪590,080	(None, 56, 56, 256)	└
block3_pool (MaxPooling2D) ↪ 0	(None, 28, 28, 256)	└
block4_conv1 (Conv2D) ↪1,180,160	(None, 28, 28, 512)	└
block4_conv2 (Conv2D) ↪2,359,808	(None, 28, 28, 512)	└
block4_conv3 (Conv2D) ↪2,359,808	(None, 28, 28, 512)	└
block4_pool (MaxPooling2D) ↪ 0	(None, 14, 14, 512)	└
block5_conv1 (Conv2D) ↪2,359,808	(None, 14, 14, 512)	└
block5_conv2 (Conv2D) ↪2,359,808	(None, 14, 14, 512)	└
block5_conv3 (Conv2D) ↪2,359,808	(None, 14, 14, 512)	└
block5_pool (MaxPooling2D) ↪ 0	(None, 7, 7, 512)	└
flatten (Flatten) ↪ 0	(None, 25088)	└
dense (Dense) ↪25,691,136	(None, 1024)	└
dropout (Dropout) ↪ 0	(None, 1024)	└
dense_1 (Dense) ↪524,800	(None, 512)	└

dropout\_1 (Dropout) (None, 512)  
↪ 0

dense\_2 (Dense) (None, 7)  
↪ 3,591

Total params: 40,934,215 (156.15 MB)

Trainable params: 30,939,143 (118.02 MB)

Non-trainable params: 9,995,072 (38.13 MB)

```
[ ]: # File path for the model checkpoint
cnn_path = '/content/FER_2013_Emotion_Detection/VGG16_Transfer_Learning'
name = 'VGG16_Transfer_Learning.keras'
chk_path = os.path.join(cnn_path, name)

# Callback to save the model checkpoint
checkpoint = ModelCheckpoint(filepath=chk_path,
                             save_best_only=True,
                             verbose=1,
                             mode='min',
                             monitor='val_loss')

# Callback for early stopping
earlystop = EarlyStopping(monitor='val_loss',
                           min_delta=0,
                           patience=3,
                           verbose=1,
                           restore_best_weights=True)

# Callback to reduce learning rate
reduce_lr = ReduceLROnPlateau(monitor='val_loss',
                               factor=0.2,
                               patience=6,
                               verbose=1,
                               min_delta=0.0001)

# Callback to log training data to a CSV file
csv_logger = CSVLogger(os.path.join(cnn_path, 'training.log'))

# Aggregating all callbacks into a list
callbacks = [checkpoint, earlystop, reduce_lr, csv_logger] # Adjusted as per
↪ your use-case
```

```

train_steps_per_epoch = train_generator.samples // train_generator.batch_size + 1
if train_generator.samples % train_generator.batch_size != 0:
    train_steps_per_epoch += 1
#validation_steps_epoch = validation_generator.samples // validation_generator.
#batch_size + 1
#if validation_generator.samples % validation_generator.batch_size != 0:
#    validation_steps_epoch += 1
test_steps_epoch = test_generator.samples // test_generator.batch_size + 1
if test_generator.samples % test_generator.batch_size != 0:
    test_steps_epoch += 1

```

```

[ ]: history = model.fit(train_generator,
                        steps_per_epoch=train_steps_per_epoch,
                        validation_data=test_generator,
                        validation_steps=test_steps_epoch,
                        epochs=5,
                        callbacks = callbacks)

```

Epoch 1/5

449/450                      0s 846ms/step -

accuracy: 0.4727 - loss: 1.3821

/usr/lib/python3.10/contextlib.py:153: UserWarning: Your input ran out of data; interrupting training. Make sure that your dataset or generator can generate at least `steps\_per\_epoch \* epochs` batches. You may need to use the `.repeat()` function when building your dataset.

self.gen.throw(typ, value, traceback)

Epoch 1: val\_loss improved from inf to 1.26366, saving model to /content/FER\_2013\_Emotion\_Detection/VGG16\_Transfer\_Learning/VGG16\_Transfer\_Learning.keras

450/450                      421s 922ms/step -

accuracy: 0.4727 - loss: 1.3820 - val\_accuracy: 0.5109 - val\_loss: 1.2637 -

learning\_rate: 1.0000e-04

Epoch 2/5

449/450                      0s 820ms/step -

accuracy: 0.5054 - loss: 1.3041

Epoch 2: val\_loss improved from 1.26366 to 1.18488, saving model to /content/FER\_2013\_Emotion\_Detection/VGG16\_Transfer\_Learning/VGG16\_Transfer\_Learning.keras

450/450                      432s 901ms/step -

accuracy: 0.5054 - loss: 1.3041 - val\_accuracy: 0.5403 - val\_loss: 1.1849 -

learning\_rate: 1.0000e-04

Epoch 3/5

449/450                      0s 822ms/step -

accuracy: 0.5275 - loss: 1.2516

Epoch 3: val\_loss improved from 1.18488 to 1.16618, saving model to /content/FER

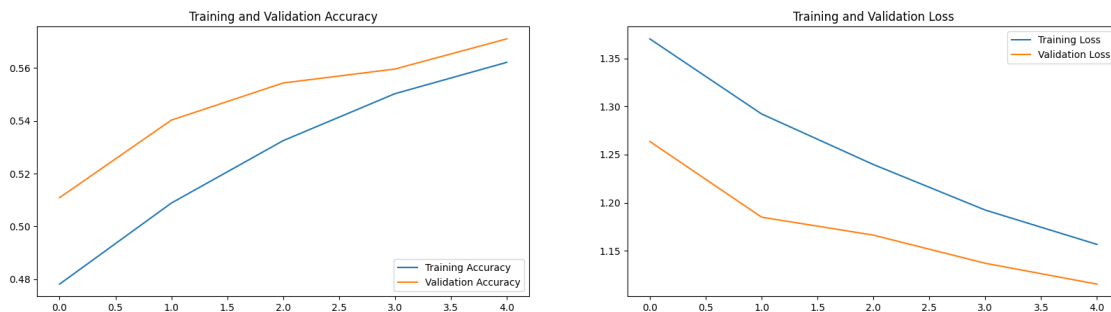


```

_2013_Emotion_Detection/VGG16_Transfer_Learning/VGG16_Transfer_Learning.keras
450/450          417s 913ms/step -
accuracy: 0.5275 - loss: 1.2515 - val_accuracy: 0.5543 - val_loss: 1.1662 -
learning_rate: 1.0000e-04
Epoch 4/5
449/450          0s 818ms/step -
accuracy: 0.5482 - loss: 1.2016
Epoch 4: val_loss improved from 1.16618 to 1.13693, saving model to /content/FER
_2013_Emotion_Detection/VGG16_Transfer_Learning/VGG16_Transfer_Learning.keras
450/450          423s 927ms/step -
accuracy: 0.5482 - loss: 1.2016 - val_accuracy: 0.5596 - val_loss: 1.1369 -
learning_rate: 1.0000e-04
Epoch 5/5
449/450          0s 817ms/step -
accuracy: 0.5637 - loss: 1.1535
Epoch 5: val_loss improved from 1.13693 to 1.11523, saving model to /content/FER
_2013_Emotion_Detection/VGG16_Transfer_Learning/VGG16_Transfer_Learning.keras
450/450          429s 901ms/step -
accuracy: 0.5637 - loss: 1.1535 - val_accuracy: 0.5711 - val_loss: 1.1152 -
learning_rate: 1.0000e-04
Restoring model weights from the end of the best epoch: 5.

```

```
[ ]: plot_training_history(history)
```



```

[ ]: train_loss, train_accu = model.evaluate(train_generator)
test_loss, test_accu = model.evaluate(test_generator)
print("final train accuracy = {:.2f} , validation accuracy = {:.2f}".
      ↪format(train_accu*100, test_accu*100))

```

```

449/449          366s 815ms/step -
accuracy: 0.5942 - loss: 1.0837
113/113          30s 263ms/step -
accuracy: 0.5746 - loss: 1.1166
final train accuracy = 59.54 , validation accuracy = 57.11

```

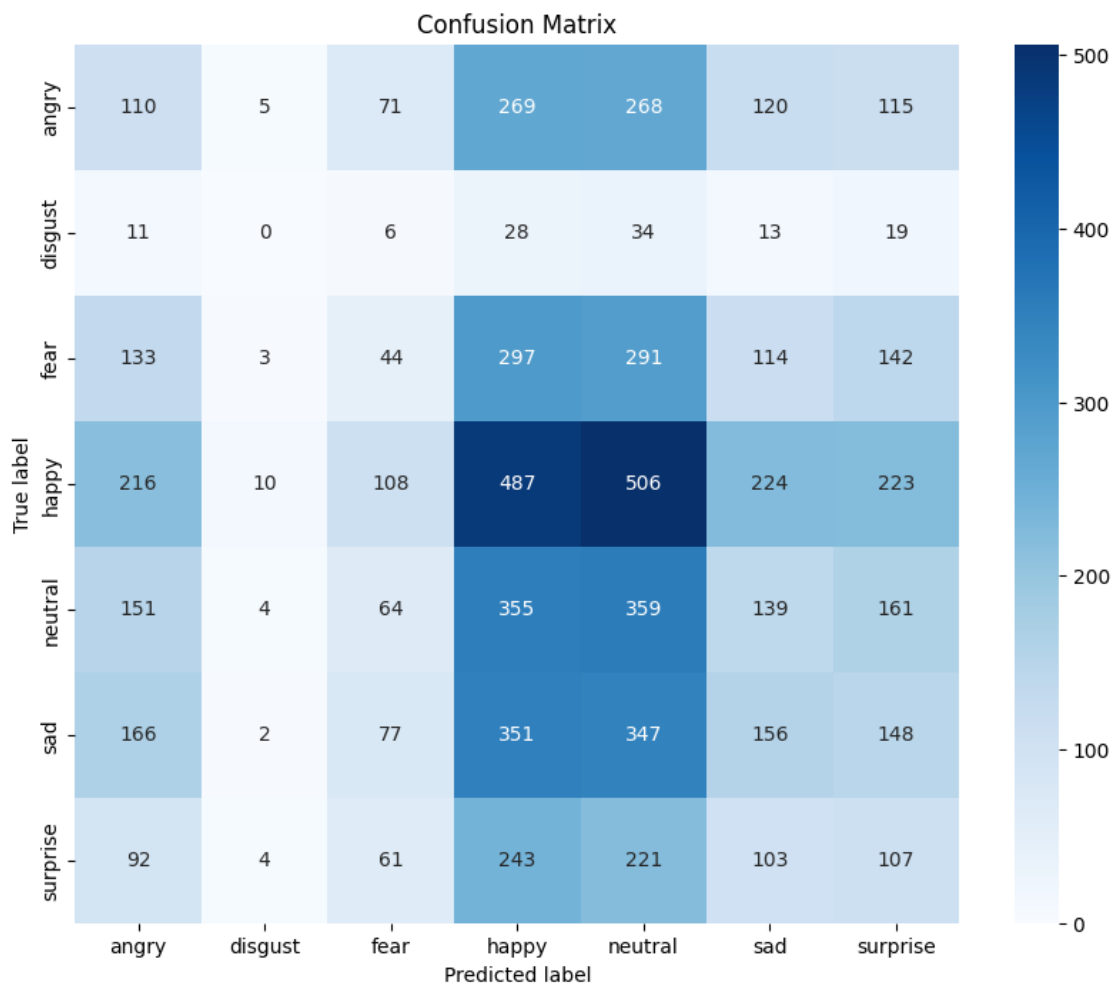
```
[ ]: # Assuming your true_classes and predicted_classes are already defined
true_classes = test_generator.classes
predicted_classes = np.argmax(model.predict(test_generator, steps=int(np.
    ↪ceil(test_generator.samples/test_generator.batch_size))), axis=1)
class_labels = list(test_generator.class_indices.keys())

# Generate the confusion matrix
cm = confusion_matrix(true_classes, predicted_classes)

# Plotting with seaborn
plt.figure(figsize=(10, 8))
sns.heatmap(cm, annot=True, fmt="d", cmap="Blues", xticklabels=class_labels,
    ↪yticklabels=class_labels)
plt.title('Confusion Matrix')
plt.ylabel('True label')
plt.xlabel('Predicted label')
plt.show()
```

113/113

30s 255ms/step



```
[ ]: # Printing the classification report
report = classification_report(true_classes,
                              predicted_classes,
                              target_names=class_labels,
                              zero_division=0)
print("Classification Report:\n", report)
```

Classification Report:

	precision	recall	f1-score	support
angry	0.13	0.11	0.12	958
disgust	0.00	0.00	0.00	111
fear	0.10	0.04	0.06	1024
happy	0.24	0.27	0.26	1774
neutral	0.18	0.29	0.22	1233
sad	0.18	0.13	0.15	1247
surprise	0.12	0.13	0.12	831
accuracy			0.18	7178
macro avg	0.13	0.14	0.13	7178
weighted avg	0.17	0.18	0.17	7178

## 21 Model 4 : Transfer Learning - ResNet50

```
[ ]: train_dir = '/content/train'
test_dir = '/content/test'

# Data augmentation configuration for training data
train_datagen = ImageDataGenerator(rescale=1/255,                # Rescale
    ↪ pixel values to [0, 1]
    rotation_range=40,                                          # Randomly
    ↪ rotate images in the range (degrees, 0 to 180)
    width_shift_range=0.2,                                     # Randomly
    ↪ horizontally shift images
    height_shift_range=0.2,                                    # Randomly
    ↪ vertically shift images
    shear_range=0.2,                                           # Apply
    ↪ shearing transformations
    zoom_range=0.1,                                           # Randomly zoom
    ↪ image
    horizontal_flip=True,                                       # Randomly flip
    ↪ images horizontally
```

```

                                fill_mode='nearest'           # Strategy used
    ↪for filling in newly created pixels
                                )

# Rescaling for validation/test data (without further data augmentation)
test_datagen = ImageDataGenerator(
                                rescale=1/255                # Rescale pixel
    ↪values to [0, 1]
                                )

# Creating data generators for training
train_generator = train_datagen.flow_from_directory(
                                train_dir,
                                target_size=(224, 224),      ↵
    ↪ # Resize images to 224x224 for model input
                                color_mode='rgb',             ↵
    ↪ # Images will be converted to RGB
                                class_mode='categorical',     ↵
    ↪ # For multi-class classification
                                batch_size=32                 ↵
    ↪ # Size of the batches of data
                                )

# Creating data generators for testing/validation
test_generator = test_datagen.flow_from_directory(
                                test_dir,
                                target_size=(224, 224),      ↵
    ↪# Resize images to 224x224 for model input
                                color_mode='rgb',             ↵
    ↪# Images will be converted to RGB
                                class_mode='categorical',     ↵
    ↪# For multi-class classification
                                batch_size=32                 ↵
    ↪# Size of the batches of data
                                )

```

Found 28709 images belonging to 7 classes.  
Found 7178 images belonging to 7 classes.

## 22 Introducing Class wieghts for imbalanced data

```

[ ]: # Extract class labels for all instances in the training dataset
classes = np.array(train_generator.classes)

# Calculate class weights to handle imbalances in the training data

```

```

# 'balanced' mode automatically adjusts weights inversely proportional to class
↪frequencies
class_weights = compute_class_weight(
    class_weight='balanced', # Strategy to balance classes
    classes=np.unique(classes), # Unique class labels
    y=classes # Class labels for each instance in the training dataset
)

# Create a dictionary mapping class indices to their calculated weights
class_weights_dict = dict(enumerate(class_weights))

# Output the class weights dictionary
print("Class Weights Dictionary:", class_weights_dict)

```

```

Class Weights Dictionary: {0: 1.0266046844269623, 1: 9.406618610747051, 2:
1.0010460615781582, 3: 0.5684387684387684, 4: 0.8260394187886635, 5:
0.8491274770777877, 6: 1.293372978330405}

```

```

[ ]: input_shape = (224, 224, 3)

base_model = ResNet50V2(include_top=False, weights='imagenet',
↪input_shape=input_shape)

model = Sequential([
    base_model,
    BatchNormalization(),
    GlobalAveragePooling2D(),
    Dense(512, activation='relu'),
    Dropout(0.1),
    Dense(256, activation='relu'),
    Dropout(0.1),
    Dense(128, activation='relu'),
    Dropout(0.1),
    Dense(7, activation='softmax')
])

optimizer = Adamax(learning_rate=0.0001)

model.compile(optimizer=optimizer, loss='categorical_crossentropy',
↪metrics=['accuracy'])
model.build(input_shape=(None, 224, 224, 3))
model.summary()

```

```

Model: "sequential_3"

```

Layer (type) ↳Param #	Output Shape	
resnet50v2 (Functional) ↳23,564,800	(None, 7, 7, 2048)	↳
batch_normalization_3 ↳8,192 (BatchNormalization)	(None, 7, 7, 2048)	↳
global_average_pooling2d_3 ↳ 0 (GlobalAveragePooling2D)	(None, 2048)	↳
dense_15 (Dense) ↳1,049,088	(None, 512)	↳
dropout_11 (Dropout) ↳ 0	(None, 512)	↳
dense_16 (Dense) ↳131,328	(None, 256)	↳
dropout_12 (Dropout) ↳ 0	(None, 256)	↳
dense_17 (Dense) ↳32,896	(None, 128)	↳
dropout_13 (Dropout) ↳ 0	(None, 128)	↳
dense_18 (Dense) ↳903	(None, 7)	↳

Total params: 24,787,207 (94.56 MB)

Trainable params: 24,737,671 (94.37 MB)

Non-trainable params: 49,536 (193.50 KB)

```
[ ]: # File path for the model checkpoint
cnn_path = '/content/FER_2013_Emotion_Detection/ResNet50_Transfer_Learning'
name = 'ResNet50_Transfer_Learning.keras'
chk_path = os.path.join(cnn_path, name)

# Callback to save the model checkpoint
checkpoint = ModelCheckpoint(filepath=chk_path,
                             save_best_only=True,
                             verbose=1,
                             mode='min',
                             monitor='val_loss')

# Callback for early stopping
earlystop = EarlyStopping(monitor='val_loss',
                           min_delta=0,
                           patience=6,
                           verbose=1,
                           restore_best_weights=True)

# Callback to reduce learning rate
reduce_lr = ReduceLROnPlateau(monitor='val_loss',
                               factor=0.2,
                               patience=6,
                               verbose=1,
                               min_delta=0.0001)

# Callback to log training data to a CSV file
csv_logger = CSVLogger(os.path.join(cnn_path, 'training.log'))

# Aggregating all callbacks into a list
callbacks = [checkpoint, earlystop, csv_logger] # Adjusted as per your use-case

train_steps_per_epoch = train_generator.samples // train_generator.batch_size + 1
if train_generator.samples % train_generator.batch_size != 0:
    train_steps_per_epoch += 1
# validation_steps_epoch = validation_generator.samples // validation_generator.
# batch_size + 1
test_steps_epoch = test_generator.samples // test_generator.batch_size + 1
if test_generator.samples % test_generator.batch_size != 0:
    test_steps_epoch += 1

[ ]: train_history = model.fit(
    train_generator,
    steps_per_epoch=200,
    epochs=50,
    validation_data=test_generator,
```

```

        validation_steps=100,
        class_weight=class_weights_dict,
        callbacks = callbacks
    )

```

Epoch 1/50

7/200 1:40 523ms/step -

accuracy: 0.5590 - loss: 1.0287

```

-----
KeyboardInterrupt                                Traceback (most recent call last)
<ipython-input-84-4acbcf516a6d> in <cell line: 1>()
----> 1 train_history = model.fit(

      2         train_generator,
      3         steps_per_epoch=200,
      4         epochs=50,
      5         validation_data=test_generator,

/usr/local/lib/python3.10/dist-packages/keras/src/utils/traceback_utils.py in
↳error_handler(*args, **kwargs)
    115         filtered_tb = None
    116         try:
--> 117             return fn(*args, **kwargs)
    118         except Exception as e:
    119             filtered_tb = _process_traceback_frames(e.__traceback__)

/usr/local/lib/python3.10/dist-packages/keras/src/backend/tensorflow/trainer.py
↳in fit(self, x, y, batch_size, epochs, verbose, callbacks, validation_split,
↳validation_data, shuffle, class_weight, sample_weight, initial_epoch,
↳steps_per_epoch, validation_steps, validation_batch_size, validation_freq)
    316         for step, iterator in epoch_iterator.enumerate_epoch():
    317             callbacks.on_train_batch_begin(step)
--> 318             logs = self.train_function(iterator)
    319             logs = self._pythonify_logs(logs)
    320             callbacks.on_train_batch_end(step, logs)

/usr/local/lib/python3.10/dist-packages/tensorflow/python/util/traceback_utils.
↳py in error_handler(*args, **kwargs)
    148         filtered_tb = None
    149         try:
--> 150             return fn(*args, **kwargs)
    151         except Exception as e:
    152             filtered_tb = _process_traceback_frames(e.__traceback__)

/usr/local/lib/python3.10/dist-packages/tensorflow/python/eager/
↳polymorphic_function/polymorphic_function.py in __call__(self, *args, **kwds)
    831

```



```

832         with OptionalXlaContext(self._jit_compile):
--> 833             result = self._call(*args, **kwds)
834
835             new_tracing_count = self.experimental_get_tracing_count()

/usr/local/lib/python3.10/dist-packages/tensorflow/python/eager/
↳polymorphic_function/polymorphic_function.py in _call(self, *args, **kwds)
876         # In this case we have not created variables on the first call. S
↳we can
877         # run the first trace but we should fail if variables are created
--> 878         results = tracing_compilation.call_function(

879             args, kwds, self._variable_creation_config
880         )

/usr/local/lib/python3.10/dist-packages/tensorflow/python/eager/
↳polymorphic_function/tracing_compilation.py in call_function(args, kwargs,
↳tracing_options)
137     bound_args = function.function_type.bind(*args, **kwargs)
138     flat_inputs = function.function_type.unpack_inputs(bound_args)
--> 139     return function._call_flat( # pylint: disable=protected-access

140         flat_inputs, captured_inputs=function.captured_inputs
141     )

/usr/local/lib/python3.10/dist-packages/tensorflow/python/eager/
↳polymorphic_function/concrete_function.py in _call_flat(self, tensor_inputs,
↳captured_inputs)
1320         and executing_eagerly):
1321         # No tape is watching; skip to running the function.
-> 1322         return self._inference_function.call_preflattened(args)
1323         forward_backward = self._select_forward_and_backward_functions(
1324             args,

/usr/local/lib/python3.10/dist-packages/tensorflow/python/eager/
↳polymorphic_function/atomic_function.py in call_preflattened(self, args)
214     def call_preflattened(self, args: Sequence[core.Tensor]) -> Any:
215         """Calls with flattened tensor inputs and returns the structured
↳output."""
--> 216         flat_outputs = self.call_flat(*args)
217         return self.function_type.pack_output(flat_outputs)
218

/usr/local/lib/python3.10/dist-packages/tensorflow/python/eager/
↳polymorphic_function/atomic_function.py in call_flat(self, *args)
249         with record.stop_recording():
250             if self._bound_context.executing_eagerly():
--> 251                 outputs = self._bound_context.call_function(

252                     self.name,

```

```

253             list(args),

/usr/local/lib/python3.10/dist-packages/tensorflow/python/eager/context.py in
↳ call_function(self, name, tensor_inputs, num_outputs)
1550         cancellation_context = cancellation.context()
1551         if cancellation_context is None:
-> 1552             outputs = execute.execute(

1553                 name.decode("utf-8"),
1554                 num_outputs=num_outputs,

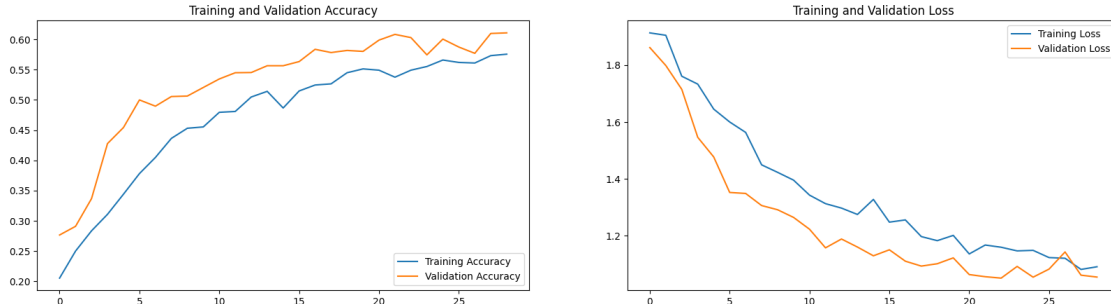
/usr/local/lib/python3.10/dist-packages/tensorflow/python/eager/execute.py in
↳ quick_execute(op_name, num_outputs, inputs, attrs, ctx, name)
51     try:
52         ctx.ensure_initialized()
---> 53         tensors = pywrap_tfe.TFE_Py_Execute(ctx._handle, device_name,
↳ op_name,

54                                     inputs, attrs, num_outputs)
55     except core._NotOkStatusException as e:

KeyboardInterrupt:

```

```
[ ]: plot_training_history(train_history)
```



```

[ ]: train_loss, train_accu = model.evaluate(train_generator)
test_loss, test_accu = model.evaluate(test_generator)
print("final train accuracy = {:.2f} , validation accuracy = {:.2f}".
↳ format(train_accu*100, test_accu*100))

```

```

898/898          384s 426ms/step -
accuracy: 0.5813 - loss: 1.0927
225/225          17s 73ms/step -
accuracy: 0.5938 - loss: 1.0696
final train accuracy = 58.81 , validation accuracy = 59.50

```

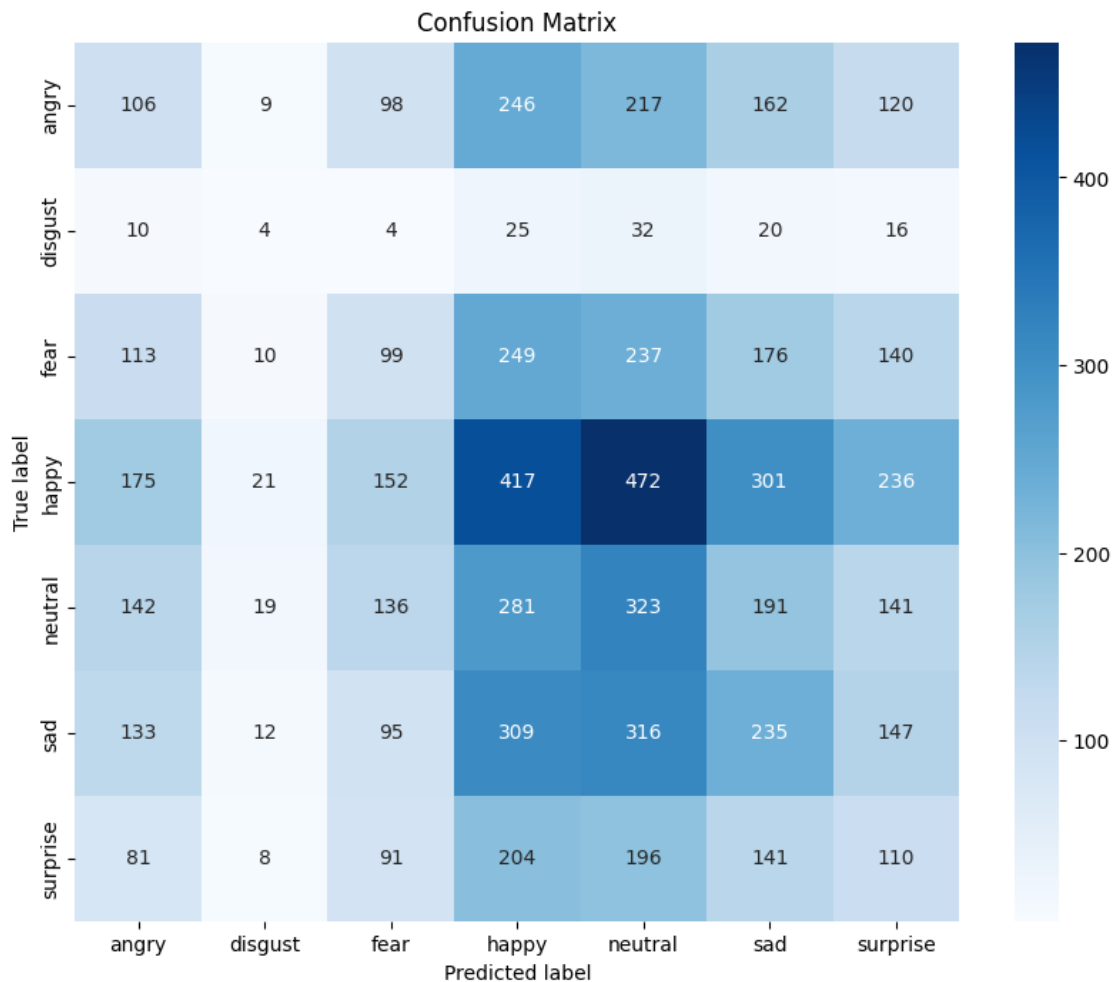
```
[ ]: # Assuming your true_classes and predicted_classes are already defined
true_classes = test_generator.classes
predicted_classes = np.argmax(model.predict(test_generator, steps=int(np.
    ↪ceil(test_generator.samples/test_generator.batch_size))), axis=1)
class_labels = list(test_generator.class_indices.keys())

# Generate the confusion matrix
cm = confusion_matrix(true_classes, predicted_classes)

# Plotting with seaborn
plt.figure(figsize=(10, 8))
sns.heatmap(cm, annot=True, fmt="d", cmap="Blues", xticklabels=class_labels,
    ↪yticklabels=class_labels)
plt.title('Confusion Matrix')
plt.ylabel('True label')
plt.xlabel('Predicted label')
plt.show()
```

225/225

21s 79ms/step



```
[ ]: # Printing the classification report
report = classification_report(true_classes,
                              predicted_classes,
                              target_names=class_labels,
                              zero_division=0)
print("Classification Report:\n", report)
```

Classification Report:

	precision	recall	f1-score	support
angry	0.14	0.11	0.12	958
disgust	0.05	0.04	0.04	111
fear	0.15	0.10	0.12	1024
happy	0.24	0.24	0.24	1774
neutral	0.18	0.26	0.21	1233
sad	0.19	0.19	0.19	1247
surprise	0.12	0.13	0.13	831
accuracy			0.18	7178
macro avg	0.15	0.15	0.15	7178
weighted avg	0.18	0.18	0.18	7178

## 23 AUC ROC plot for each class

```
[ ]: true_labels = test_generator.classes
preds = model.predict(test_generator, steps=len(test_generator))
pred_labels = np.argmax(preds, axis=1)
classes=list(test_generator.class_indices.keys())
```

225/225                      15s 65ms/step

```
[ ]: y_encoded = pd.get_dummies(true_labels).astype(int).values
preds_encoded = pd.get_dummies(pred_labels).astype(int).values

fpr = dict()
tpr = dict()
roc_auc = dict()
for i in range(7):
    fpr[i], tpr[i], _ = roc_curve(y_encoded[:,i], preds_encoded[:,i])
    roc_auc[i] = auc(fpr[i], tpr[i])

plt.figure(figsize=(10,5))
```

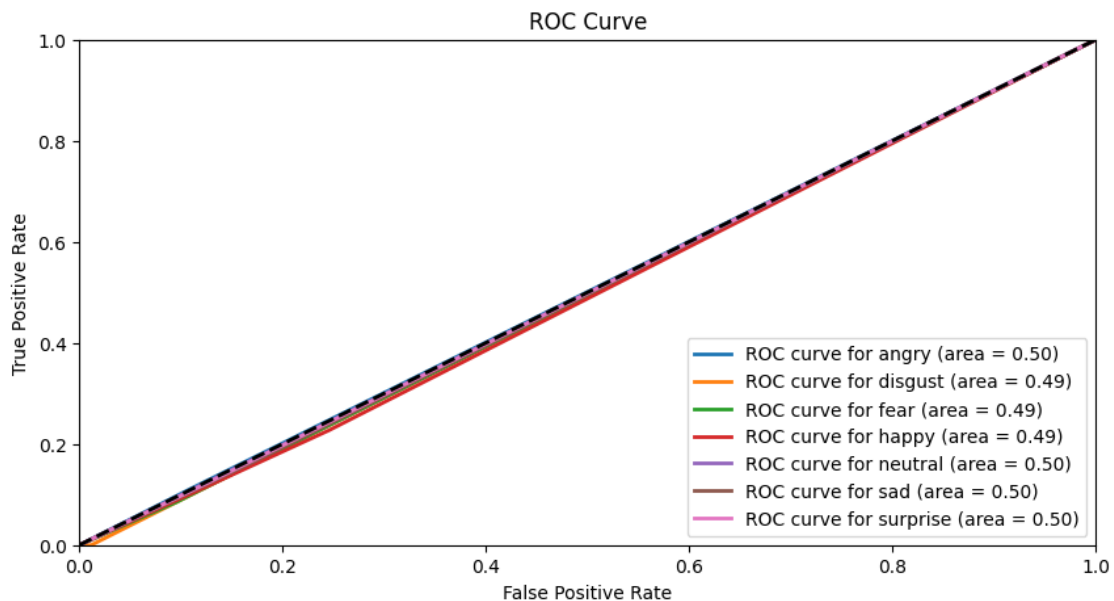
```

colors = ['#1f77b4', '#ff7f0e', '#2ca02c', '#d62728', '#9467bd', '#8c564b',
          '#e377c2']
for i, color in enumerate(colors):
    plt.plot(fpr[i], tpr[i], color=color, lw=2, label=f"ROC curve for {classes[i]} (area = {roc_auc[i]:0.2f})")

plt.plot([0, 1], [0, 1], 'k--', lw=2)
plt.xlim([0, 1])
plt.ylim([0, 1])
plt.xlabel('False Positive Rate')
plt.ylabel('True Positive Rate')
plt.title('ROC Curve')
plt.legend(loc='lower right')

```

```
[ ]: <matplotlib.legend.Legend at 0x7dc504a4d270>
```



## 24 Push all your models into Drive for easy access.

```
[ ]: !cp /content/FER_2013_Emotion_Detection /content/drive/MyDrive/
```

24.1 If you are here and followed and learned everything, you are in a great position to build a project at a industry standard level. Kudos to you!!

24.2 All that's left is Deployment

```
[ ]: !apt-get update
!apt-get install texlive texlive-xetex texlive-latex-extra pandoc
!pip install pypandoc
```

```
[ ]:
```