

sushanshankar-stylumiafinal MobileNetV2

June 6, 2023

```
[1]: import warnings
warnings.filterwarnings("ignore")

[2]: import os
import pandas as pd
import numpy as np
import tensorflow as tf
from sklearn.model_selection import train_test_split
from tensorflow.keras.preprocessing.image import ImageDataGenerator
from PIL import Image

[3]: # Folder path where the images are stored
folder_path = '/kaggle/input/extracting-attributes-from-fashion-images-2/train'

# CSV file path with image labels
csv_file_path = '/kaggle/input/extracting-attributes-from-fashion-images-2/
↳train.csv'

[4]: # Read the CSV file into a pandas DataFrame
labels_df = pd.read_csv(csv_file_path)

[5]: # Convert labels to string
labels_df['label'] = labels_df['label'].astype(str)

[6]: # Split the data into training and validation sets
train_df, val_df = train_test_split(labels_df, test_size=0.2, random_state=42)

[7]: # Create an ImageDataGenerator for data augmentation and preprocessing
datagen = ImageDataGenerator(
    rescale=1./255, # Rescale pixel values to [0, 1]
    rotation_range=10, # Randomly rotate images by up to 10 degrees
    width_shift_range=0.1, # Randomly shift images horizontally by up to 10%
↳of the width
    height_shift_range=0.1, # Randomly shift images vertically by up to 10% of
↳the height
    shear_range=0.1, # Randomly apply shearing transformations
    zoom_range=0.1, # Randomly zoom in and out of images
    horizontal_flip=True, # Randomly flip images horizontally
```

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        fill_mode='nearest' # Fill any newly created pixels after rotation or
↪shifting
    )

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[8]: # Training data generator
train_generator = datagen.flow_from_dataframe(
    train_df,
    directory=folder_path,
    x_col='file_name',
    y_col='label',
    target_size=(224, 224),
    batch_size=64,
    class_mode='sparse',
    shuffle=True
)

```

Found 14712 validated image filenames belonging to 7 classes.

```

[9]: # Validation data generator
val_generator = datagen.flow_from_dataframe(
    val_df,
    directory=folder_path,
    x_col='file_name',
    y_col='label',
    target_size=(224, 224),
    batch_size=64,
    class_mode='sparse',
    shuffle=False
)

```

Found 3679 validated image filenames belonging to 7 classes.

```

[10]: from keras.applications.resnet import ResNet50
from keras.applications.mobilenet_v2 import MobileNetV2
from keras.applications.efficientnet import EfficientNetB0
from keras.models import Sequential
from keras.layers import Flatten, Dense
from keras.layers import Dropout
from keras.optimizers import Adam

```

```

[11]: # Use the MobileNetV2 model with weights from ImageNet
bm = MobileNetV2(weights='imagenet', include_top=False, input_shape=(224, 224,
↪3))

```

Downloading data from https://storage.googleapis.com/tensorflow/keras-applications/mobilenet_v2/mobilenet_v2_weights_tf_dim_ordering_tf_kernels_1.0_224_no_top.h5

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[12]: for layer in bm.layers:
        layer.trainable = False

[13]: model = Sequential()
model.add(bm)
model.add(Flatten())
model.add(Dense(512, activation='relu'))
model.add(Dropout(0.5))
model.add(Dense(256, activation='relu'))
model.add(Dropout(0.5))
model.add(Dense(7, activation='softmax'))

[14]: model.compile(optimizer=Adam(lr=0.001), loss='sparse_categorical_crossentropy',
        metrics=['accuracy'])

[15]: # Train the model using the data generators
history = model.fit(
    train_generator,
    epochs=25,
    validation_data=val_generator
)
```

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Epoch 1/25
230/230 [=====] - 403s 2s/step - loss: 2.9015 -
accuracy: 0.3096 - val_loss: 1.7274 - val_accuracy: 0.3395
Epoch 2/25
230/230 [=====] - 288s 1s/step - loss: 1.7659 -
accuracy: 0.3423 - val_loss: 1.6503 - val_accuracy: 0.3892
Epoch 3/25
230/230 [=====] - 286s 1s/step - loss: 1.7502 -
accuracy: 0.3479 - val_loss: 1.6862 - val_accuracy: 0.3563
Epoch 4/25
230/230 [=====] - 284s 1s/step - loss: 1.7129 -
accuracy: 0.3620 - val_loss: 1.5542 - val_accuracy: 0.4273
Epoch 5/25
230/230 [=====] - 282s 1s/step - loss: 1.6700 -
accuracy: 0.3864 - val_loss: 1.5307 - val_accuracy: 0.4653
Epoch 6/25
230/230 [=====] - 285s 1s/step - loss: 1.6661 -
accuracy: 0.3884 - val_loss: 1.5253 - val_accuracy: 0.4490
Epoch 7/25
230/230 [=====] - 285s 1s/step - loss: 1.6097 -
accuracy: 0.4143 - val_loss: 1.4766 - val_accuracy: 0.4797
Epoch 8/25
230/230 [=====] - 290s 1s/step - loss: 1.5764 -
accuracy: 0.4246 - val_loss: 1.4301 - val_accuracy: 0.4942
Epoch 9/25
230/230 [=====] - 294s 1s/step - loss: 1.5348 -
```

accuracy: 0.4352 - val_loss: 1.3962 - val_accuracy: 0.4730
 Epoch 10/25
 230/230 [=====] - 293s 1s/step - loss: 1.5096 -
 accuracy: 0.4434 - val_loss: 1.3662 - val_accuracy: 0.5034
 Epoch 11/25
 230/230 [=====] - 290s 1s/step - loss: 1.4946 -
 accuracy: 0.4522 - val_loss: 1.3491 - val_accuracy: 0.5243
 Epoch 12/25
 230/230 [=====] - 291s 1s/step - loss: 1.4738 -
 accuracy: 0.4639 - val_loss: 1.3389 - val_accuracy: 0.5143
 Epoch 13/25
 230/230 [=====] - 288s 1s/step - loss: 1.4590 -
 accuracy: 0.4634 - val_loss: 1.3120 - val_accuracy: 0.5325
 Epoch 14/25
 230/230 [=====] - 287s 1s/step - loss: 1.4568 -
 accuracy: 0.4668 - val_loss: 1.3115 - val_accuracy: 0.5145
 Epoch 15/25
 230/230 [=====] - 288s 1s/step - loss: 1.4358 -
 accuracy: 0.4702 - val_loss: 1.3440 - val_accuracy: 0.4629
 Epoch 16/25
 230/230 [=====] - 291s 1s/step - loss: 1.4206 -
 accuracy: 0.4744 - val_loss: 1.2956 - val_accuracy: 0.5140
 Epoch 17/25
 230/230 [=====] - 288s 1s/step - loss: 1.4249 -
 accuracy: 0.4757 - val_loss: 1.2699 - val_accuracy: 0.5466
 Epoch 18/25
 230/230 [=====] - 289s 1s/step - loss: 1.4102 -
 accuracy: 0.4853 - val_loss: 1.2558 - val_accuracy: 0.5409
 Epoch 19/25
 230/230 [=====] - 288s 1s/step - loss: 1.3972 -
 accuracy: 0.4865 - val_loss: 1.3010 - val_accuracy: 0.4928
 Epoch 20/25
 230/230 [=====] - 287s 1s/step - loss: 1.4003 -
 accuracy: 0.4861 - val_loss: 1.2602 - val_accuracy: 0.5287
 Epoch 21/25
 230/230 [=====] - 289s 1s/step - loss: 1.3902 -
 accuracy: 0.4867 - val_loss: 1.2684 - val_accuracy: 0.5357
 Epoch 22/25
 230/230 [=====] - 288s 1s/step - loss: 1.3806 -
 accuracy: 0.4857 - val_loss: 1.2447 - val_accuracy: 0.5235
 Epoch 23/25
 230/230 [=====] - 286s 1s/step - loss: 1.3700 -
 accuracy: 0.4933 - val_loss: 1.2258 - val_accuracy: 0.5341
 Epoch 24/25
 230/230 [=====] - 285s 1s/step - loss: 1.3716 -
 accuracy: 0.4906 - val_loss: 1.2404 - val_accuracy: 0.5243
 Epoch 25/25
 230/230 [=====] - 290s 1s/step - loss: 1.3679 -

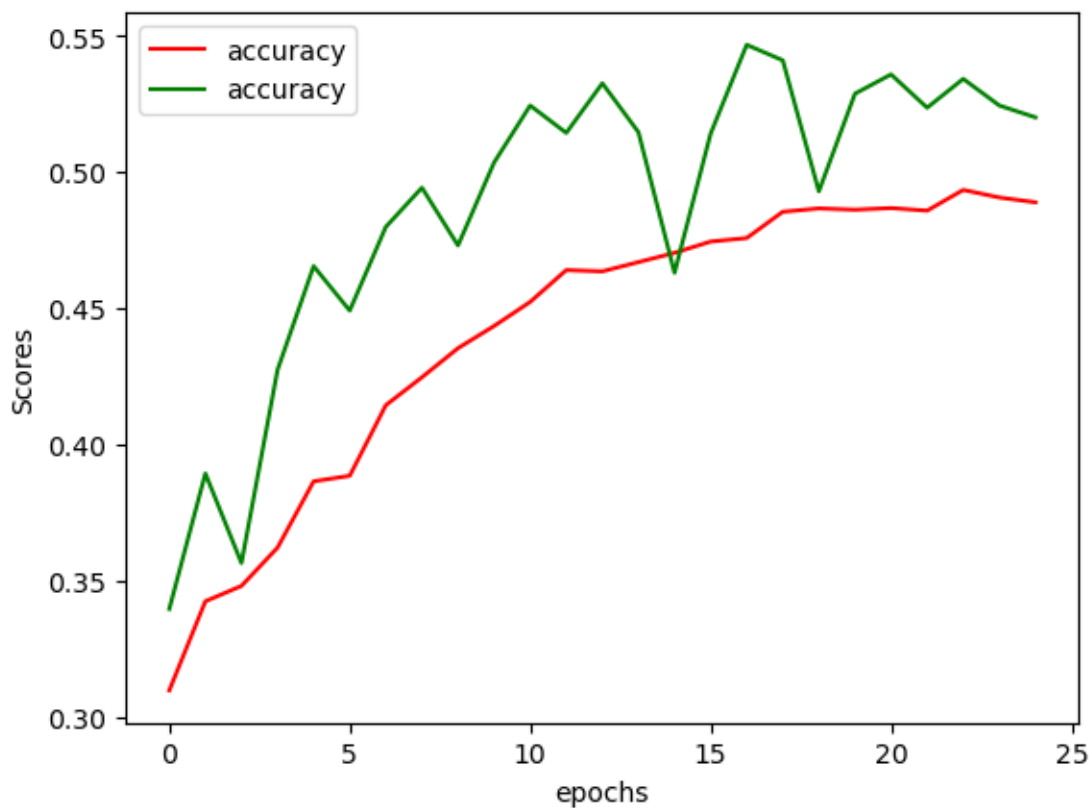
accuracy: 0.4888 - val_loss: 1.2577 - val_accuracy: 0.5200

```
[16]: # Save the trained model
model.save('/kaggle/working/trained_model.h5')
```

```
[17]: from matplotlib import pyplot as plt

plt.figure()
plt.xlabel('epochs')
plt.ylabel('Scores')
plt.plot(history.history['accuracy'], label='accuracy', color='red')
plt.plot(history.history['val_accuracy'], label='accuracy', color='green')
plt.legend()
```

[17]: <matplotlib.legend.Legend at 0x7db286c019f0>



Prediction Part

```
[18]: import os
import pandas as pd
import numpy as np
from tensorflow.keras.preprocessing.image import load_img, img_to_array
```

```
[19]: test_folder_path = '/kaggle/input/extracting-attributes-from-fashion-images-2/
      ↪test'
      model_path = '/kaggle/working/trained_model.h5'
      # Set the path for the submission file
      submission_file_path = '/kaggle/working/submission.csv'
```

```
[20]: from tensorflow.keras.models import load_model
      model = load_model(model_path)
```

```
[21]: # Create an empty DataFrame to store the predictions
      predictions_df = pd.DataFrame(columns=['file_name', 'label'])
```

```
[22]: for filename in os.listdir(test_folder_path):
      image_path = os.path.join(test_folder_path, filename)
      image = Image.open(image_path)
      image = image.resize((224, 224))
      image = np.array(image) / 255.0
      image = np.expand_dims(image, axis=0)
      prediction = model.predict(image)
      predicted_label = np.argmax(prediction)
      predictions_df = predictions_df.append({'file_name': filename, 'label':
      ↪predicted_label}, ignore_index=True)
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1/1 [=====] - 0s 23ms/step
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1/1 [=====] - 0s 24ms/step
1/1 [=====] - 0s 23ms/step
1/1 [=====] - 0s 24ms/step
1/1 [=====] - 0s 36ms/step
1/1 [=====] - 0s 24ms/step
1/1 [=====] - 0s 24ms/step
1/1 [=====] - 0s 27ms/step
```

```
[23]: predictions_df.to_csv(submission_file_path, index=False)
```