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10 random numbers using numpy
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from tensorflow.keras.applications import MobileNet
from tensorflow.keras.layers import Dense, Flatten
from tensorflow.keras.models import Model
\# Load MobileNet as the base model
mobilenet_model = MobileNet(input_shape=(224, 224, 3), include_top=False, weights='imagenet')
# Add custom layers for classification
inputs = mobilenet_model.input
x = mobilenet_model.output
x = Flatten(name='Flatten')(x)
x = Dense(256, activation='relu', name='DenseLayer1')(x)
outputs = Dense(10, activation='softmax', name='OutputLayer')(x)
# Create the final model
model = Model(inputs=inputs, outputs=outputs, name='MobileNet_Classifier')
\mbox{\tt\#} Display the model architecture
model.summary()
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count_Letn (kern)	(None, 112, 112, 32)	О
<pre>conv_dw_1 (DepthwiseConv2D)</pre>	(None, 112, 112, 32)	288
<pre>conv_dw_1_bn (BatchNormalization)</pre>	(None, 112, 112, 32)	128
conv_dw_1_relu (ReLU)	(None, 112, 112, 32)	0
conv_pw_1 (Conv2D)	(None, 112, 112, 64)	2,048
conv_pw_1_bn (BatchNormalization)	(None, 112, 112, 64)	256
conv_pw_1_relu (ReLU)	(None, 112, 112, 64)	0
conv_pad_2 (ZeroPadding2D)	(None, 113, 113, 64)	0
conv_dw_2 (DepthwiseConv2D)	(None, 56, 56, 64)	576
conv_dw_2_bn (BatchNormalization)	(None, 56, 56, 64)	256
conv_dw_2_relu (ReLU)	(None, 56, 56, 64)	0
conv_pw_2 (Conv2D)	(None, 56, 56, 128)	8,192
conv_pw_2_bn (BatchNormalization)	(None, 56, 56, 128)	512
conv_pw_2_relu (ReLU)	(None, 56, 56, 128)	0
conv_dw_3 (DepthwiseConv2D)	(None, 56, 56, 128)	1,152
conv_dw_3_bn (BatchNormalization)	(None, 56, 56, 128)	512
conv_dw_3_relu (ReLU)	(None, 56, 56, 128)	0
conv_pw_3 (Conv2D)	(None, 56, 56, 128)	16,384
conv_pw_3_bn (BatchNormalization)	(None, 56, 56, 128)	512
conv_pw_3_relu (ReLU)	(None, 56, 56, 128)	0
conv_pad_4 (ZeroPadding2D)	(None, 57, 57, 128)	0
conv_dw_4 (DepthwiseConv2D)	(None, 28, 28, 128)	1,152
conv_dw_4_bn (BatchNormalization)	(None, 28, 28, 128)	512
conv_dw_4_relu (ReLU)	(None, 28, 28, 128)	0
conv_pw_4 (Conv2D)	(None, 28, 28, 256)	32,768
conv_pw_4_bn (BatchNormalization)	(None, 28, 28, 256)	1,024
conv_pw_4_relu (ReLU)	(None, 28, 28, 256)	0
conv_dw_5 (DepthwiseConv2D)	(None, 28, 28, 256)	2,304
conv_dw_5_bn (BatchNormalization)	(None, 28, 28, 256)	1,024
conv_dw_5_relu (ReLU)	(None, 28, 28, 256)	0
conv_pw_5 (Conv2D)	(None, 28, 28, 256)	65,536
conv_pw_5_bn (BatchNormalization)	(None, 28, 28, 256)	1,024
conv_pw_5_relu (ReLU)	(None, 28, 28, 256)	0
conv_pad_6 (ZeroPadding2D)	(None, 29, 29, 256)	0
conv_dw_6 (DepthwiseConv2D)	(None, 14, 14, 256)	2,304
conv_dw_6_bn (BatchNormalization)	(None, 14, 14, 256)	1,024
conv_dw_6_relu (ReLU)	(None, 14, 14, 256)	0
conv_pw_6 (Conv2D)	(None, 14, 14, 512)	131,072