!unzip "/content/Flowers-Dataset.zip"

```
T→ Archive: /content/Flowers-Dataset.zip
     inflating: flowers/daisy/100080576 f52e8ee070 n.jpg
     inflating: flowers/daisy/10140303196 b88d3d6cec.jpg
     inflating: flowers/daisy/10172379554 b296050f82 n.jpg
     inflating: flowers/daisy/10172567486_2748826a8b.jpg
     inflating: flowers/daisy/10172636503 21bededa75 n.jpg
     inflating: flowers/daisy/102841525 bd6628ae3c.jpg
     inflating: flowers/daisy/10300722094 28fa978807 n.jpg
     inflating: flowers/daisy/1031799732 e7f4008c03.jpg
     inflating: flowers/daisy/10391248763 1d16681106 n.jpg
     inflating: flowers/daisy/10437754174 22ec990b77 m.jpg
     inflating: flowers/daisy/10437770546 8bb6f7bdd3 m.jpg
     inflating: flowers/daisy/10437929963 bc13eebe0c.jpg
     inflating: flowers/daisy/10466290366 cc72e33532.jpg
     inflating: flowers/daisy/10466558316 a7198b87e2.jpg
     inflating: flowers/daisy/10555749515 13a12a026e.jpg
     inflating: flowers/daisy/10555815624 dc211569b0.jpg
     inflating: flowers/daisy/10555826524 423eb8bf71 n.jpg
     inflating: flowers/daisy/10559679065_50d2b16f6d.jpg
     inflating: flowers/daisy/105806915 a9c13e2106 n.jpg
     inflating: flowers/daisy/10712722853 5632165b04.jpg
     inflating: flowers/daisy/107592979 aaa9cdfe78 m.jpg
     inflating: flowers/daisy/10770585085 4742b9dac3 n.jpg
     inflating: flowers/daisy/10841136265_af473efc60.jpg
     inflating: flowers/daisy/10993710036 2033222c91.jpg
     inflating: flowers/daisy/10993818044 4c19b86c82.jpg
     inflating: flowers/daisy/10994032453 ac7f8d9e2e.jpg
     inflating: flowers/daisy/11023214096 b5b39fab08.jpg
     inflating: flowers/daisy/11023272144 fce94401f2 m.jpg
     inflating: flowers/daisy/11023277956 8980d53169 m.jpg
     inflating: flowers/daisy/11124324295 503f3a0804.jpg
     inflating: flowers/daisy/1140299375 3aa7024466.jpg
     inflating: flowers/daisy/11439894966_dca877f0cd.jpg
     inflating: flowers/daisy/1150395827 6f94a5c6e4 n.jpg
     inflating: flowers/daisy/11642632 1e7627a2cc.jpg
     inflating: flowers/daisy/11834945233 a53b7a92ac m.jpg
     inflating: flowers/daisy/11870378973 2ec1919f12.jpg
     inflating: flowers/daisy/11891885265_ccefec7284_n.jpg
     inflating: flowers/daisy/12193032636 b50ae7db35 n.jpg
     inflating: flowers/daisy/12348343085 d4c396e5b5 m.jpg
     inflating: flowers/daisy/12585131704_0f64b17059_m.jpg
     inflating: flowers/daisy/12601254324 3cb62c254a m.jpg
     inflating: flowers/daisy/1265350143_6e2b276ec9.jpg
     inflating: flowers/daisy/12701063955 4840594ea6 n.jpg
     inflating: flowers/daisy/1285423653 18926dc2c8 n.jpg
     inflating: flowers/daisy/1286274236 1d7ac84efb n.jpg
     inflating: flowers/daisy/12891819633_e4c82b51e8.jpg
     inflating: flowers/daisy/1299501272 59d9da5510 n.jpg
     inflating: flowers/daisy/1306119996 ab8ae14d72 n.jpg
     inflating: flowers/daisy/1314069875 da8dc023c6 m.jpg
     inflating: flowers/daisy/1342002397 9503c97b49.jpg
     inflating: flowers/daisy/134409839_71069a95d1_m.jpg
     inflating: flowers/daisy/1344985627 c3115e2d71 n.jpg
     inflating: flowers/daisy/13491959645 2cd9df44d6 n.jpg
     inflating: flowers/daisy/1354396826_2868631432_m.jpg
     inflating: flowers/daisy/1355787476 32e9f2a30b.jpg
```

```
inflating: flowers/daisy/13583238844_573df2de8e_m.jpg
inflating: flowers/daisy/1374193929 35232003f3 ing
```

▼ IMAGE AUGMENTATION

→ CREATE MODEL AND ADDING LAYERS

```
from tensorflow.keras.models import Sequential

from tensorflow.keras.layers import Convolution2D,MaxPooling2D,Flatten,Dense

model = Sequential()

model.add(Convolution2D(32,(3,3),activation='relu',input_shape=(64,64,3))) # Convol

model.add(MaxPooling2D(pool_size=(2,2))) # Max pooling layer

model.add(Flatten()) # Flatten layer

model.add(Dense(300,activation='relu')) # Hidden layer 1

model.add(Dense(150,activation='relu')) # Hidden layer 2

model.add(Dense(4,activation='softmax')) # Output layer
```

→ COMPILE MODEL

Epoch 1/5

```
InvalidArgumentError
                                           Traceback (most recent call last)
<ipython-input-47-9a4ef8c8eb25> in <module>
      3
                  epochs=5,
      4
                  validation data=xtest,
                  validation steps=len(xtest))
                                 1 frames -
/usr/local/lib/python3.7/dist-packages/tensorflow/python/eager/execute.py
in quick execute(op name, num outputs, inputs, attrs, ctx, name)
            ctx.ensure initialized()
     54
            tensors = pywrap tfe.TFE Py Execute(ctx. handle, device name,
op name,
---> 55
                                                 inputs, attrs, num outputs)
          except core NotOkStatusEvception as a
```

SAVE MODEL

```
[ ] → 1 cell hidden

'categorical_crossentropy/softmax_cross_entropy_with_logits' defined at
```

TEST THE MODEL

```
[ ] → 15 cells hidden
        TITE / ADI/ TOOUT/ TID/ P/ CHONG. / / AIDC PACKAGED/ TP/ NOTHET_TAANONET. P/ /
    line 16, in <module>
          app.launch new instance()
        File "/usr/local/lib/python3.7/dist-
    packages/traitlets/config/application.py", line 846, in launch instance
          app.start()
        File "/usr/local/lib/python3.7/dist-packages/ipykernel/kernelapp.py",
    line 612, in start
          self.io loop.start()
        File "/usr/local/lib/python3.7/dist-
    packages/tornado/platform/asyncio.py", line 132, in start
          self.asyncio loop.run forever()
        File "/usr/lib/python3.7/asyncio/base_events.py", line 541, in
    run forever
          self. run once()
        File "/usr/lib/python3.7/asyncio/base events.py", line 1786, in
    run once
          handle. run()
        File "/usr/lib/python3.7/asyncio/events.py", line 88, in run
          self. context.run(self. callback, *self. args)
        File "/usr/local/lib/python3.7/dist-packages/tornado/ioloop.py", line
    758, in run callback
          ret = callback()
        File "/usr/local/lib/python3.7/dist-packages/tornado/stack context.py",
    line 300, in null wrapper
          return fn(*args, **kwargs)
        File "/usr/local/lib/pvthon3.7/dist-packages/tornado/gen.pv". line
```

×