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        "# Assignment - 3, authored by Karthikeyan R\n",
        "**1. Download the dataset
[here] (https://drive.google.com/file/d/1xkynpL15pt6KT3YSlDimu4A5iRU9qYck/
view).**\n",
        "# Importing necessary Libraries"
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        "import numpy as np\n",
        "import matplotlib.pyplot as plt\n",
        "import pandas as pd\n",
        "from tensorflow.keras.models import Sequential\n",
        "from tensorflow.keras.layers import
Dense, Activation, Dropout, Conv2D, Flatten, MaxPool2D, Reshape, InputLayer\n",
        "from tensorflow.keras.applications.resnet50 import ResNet50\n",
        "from tensorflow.keras.applications.resnet50 import
preprocess input\n",
        "from tensorflow.keras.preprocessing import image\n",
        "from tensorflow.keras.preprocessing.image import
ImageDataGenerator,load img,img to array\n",
        "from tensorflow.keras.callbacks import EarlyStopping,
ReduceLROnPlateau"
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        "# Data Augumentation\n",
        "\n",
        "* Dataset consist of 5 classes.\n",
        "* **Daisy** - European Species of Aster family.\n",
        "* **Sunflower** - Identified as the genus of Helianthus.\n",
        "* **Tulip** - Belong to the species of spring blooming
geophytes.\n",
        "* **Rose** - Belongs to the family of rosaceae.\n",
        "* **Dandelion** - Indentifies as the genus of Asterceae."
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                                       shear range = 0.2, \n",
        "
                                       zoom range = 0.2, \n",
        "
                                       horizontal flip = True, \n",
                                       validation split = 0.30) \n",
        "test data gen = ImageDataGenerator(rescale =
1./255, validation split = 0.30)"
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            "Found 3024 images belonging to 5 classes.\n",
```

```
"Found 1293 images belonging to 5 classes.\n"
          ]
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        "training set = train data_gen.flow_from_directory(path, \n",
target size=(64,64), \n",
batch size=100, \n",
class mode='categorical', \n",
shuffle=True, \n",
color mode='rgb', \n",
                                                             subset =
'training') \n",
        "\n",
        "testing set = test data gen.flow from directory(path,\n",
target size=(64,64),\n",
batch_size=100, \n",
class_mode='categorical', \n",
shuffle=True, \n",
color mode='rgb', \n",
                                                             subset =
'validation')"
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        "model = Sequential()\n",
        "#convolution and Pooling layer 1\n",
```

```
"model.add(Conv2D(filters=48, kernel size=3, activation='relu', input shape=
(64,64,3))\n",
       "model.add(MaxPool2D(pool_size=2,strides=2))\n",
       "model.add(Dropout(0.2))\sqrt{n}",
       "\n",
       "#convolution and Pooling layer 2\n",
"model.add(Conv2D(filters=32, kernel size=3, activation='relu')) \n",
       "model.add(MaxPool2D(pool size=2, strides=2)) \n",
       "model.add(Dropout(0.2))\n",
       "\n",
       "#Flattening the images\n",
       "model.add(Flatten())\n",
       "#Fully Connected layers\n",
       "model.add(Dense(64,activation='relu')) \n",
       "model.add(Dropout(0.2))\n",
       "model.add(Dense(5,activation='softmax'))"
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                                                               \n",
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                                        Output Shape
                                                                 Param
   \n",
"==========\n",
                                      (None, 62, 62, 48)
           " conv2d (Conv2D)
                                                                1344
\n",
\n",
           " max pooling2d (MaxPooling2D (None, 31, 31, 48)
\n",
           " )
\n",
           11
\n",
           " dropout (Dropout)
                                       (None, 31, 31, 48)
\n",
\n",
           " conv2d 1 (Conv2D) (None, 29, 29, 32)
                                                                13856
\n'',
```

```
\n",
           " max_pooling2d_1 (MaxPooling (None, 14, 14, 32)
\n",
           " 2D)
\n'',
\n",
           " dropout 1 (Dropout)
                                (None, 14, 14, 32)
                                                                0
\n",
\n'',
           " flatten (Flatten)
                                        (None, 6272)
                                                                 0
\n'',
\n",
           " dense (Dense)
                                        (None, 64)
         \n",
401472
\n'',
           " dropout 2 (Dropout)
                                       (None, 64)
                                                                 0
\n",
\n'',
           " dense_1 (Dense)
                                       (None, 5)
                                                                 325
\n",
\n'',
"-----\n",
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           "Trainable params: 416,997\n",
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'accuracy'])"
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        "early stop = EarlyStopping(monitor='val accuracy', \n",
                                       patience=5, verbose=1, mode='auto') \n",
        "\n",
        "lr = ReduceLROnPlateau(monitor='val accuracy', \n",
                                  factor=0.2, patience=5, \n",
        **
                                  min lr=0.00001) \n",
        "\n",
        "callback = [early stop,lr]"
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loss: 1.4674 - accuracy: 0.3532 - val loss: 1.2853 - val accuracy:
0.4200\n",
          "Epoch 2/50\n",
          "31/31 [============ ] - 18s 598ms/step -
loss: 1.2396 - accuracy: 0.4580 - val loss: 1.1973 - val accuracy:
0.4942 \n'',
          "Epoch 3/50\n",
          "31/31 [======= ] - 17s 544ms/step -
loss: 1.1910 - accuracy: 0.4825 - val loss: 1.1977 - val accuracy:
0.5004 n'',
          "Epoch 4/50\n",
          "31/31 [========== ] - 20s 628ms/step -
loss: 1.1573 - accuracy: 0.5136 - val loss: 1.1799 - val accuracy:
0.5004 \n'',
          "Epoch 5/50\n",
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loss: 1.1126 - accuracy: 0.5509 - val loss: 1.1133 - val accuracy:
0.5561\n'',
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          "31/31 [=====================] - 19s 626ms/step -
loss: 1.0707 - accuracy: 0.5688 - val loss: 1.0658 - val accuracy:
0.5831\n",
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loss: 1.0441 - accuracy: 0.5890 - val loss: 1.1111 - val accuracy:
0.5615\n'',
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          1.0352 - accuracy: 0.5751 - val loss: 1.1179 - val accuracy: 0.5298\n",
          "Epoch 9/50\n",
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loss: 0.9866 - accuracy: 0.6124 - val loss: 1.0323 - val accuracy:
0.5924 \n'',
          "Epoch 10/50\n",
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loss: 0.9633 - accuracy: 0.6174 - val loss: 0.9636 - val accuracy:
0.6326\n'',
          "Epoch 11/50\n",
          "31/31 [========= ] - 19s 616ms/step -
loss: 0.9307 - accuracy: 0.6329 - val loss: 0.9897 - val_accuracy:
0.6195\n",
          "Epoch 12/50\n",
          "31/31 [=====================] - 18s 594ms/step -
loss: 0.9415 - accuracy: 0.6263 - val loss: 1.0379 - val accuracy:
0.6025\n",
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          "31/31 [============ ] - 18s 596ms/step -
loss: 0.9065 - accuracy: 0.6349 - val loss: 0.9754 - val accuracy:
0.6249\n",
          "Epoch 14/50\n",
          "31/31 [============ ] - 19s 606ms/step -
loss: 0.8950 - accuracy: 0.6478 - val loss: 0.9445 - val accuracy:
0.6326\n'',
          "Epoch 15/50\n",
```

```
"31/31 [============ ] - 19s 621ms/step -
loss: 0.8649 - accuracy: 0.6736 - val loss: 0.9327 - val accuracy:
0.6396\n",
          "Epoch 16/50\n",
          "31/31 [========== ] - 19s 593ms/step -
loss: 0.8388 - accuracy: 0.6673 - val loss: 1.0472 - val accuracy:
0.6048\n",
          "Epoch 17/50\n",
          "31/31 [============ ] - 19s 631ms/step -
loss: 0.8464 - accuracy: 0.6620 - val loss: 0.9201 - val accuracy:
0.6527\n",
          "Epoch 18/50\n",
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loss: 0.8144 - accuracy: 0.6739 - val loss: 0.9701 - val accuracy:
0.6419\n",
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loss: 0.8010 - accuracy: 0.6815 - val_loss: 0.9518 - val_accuracy:
0.6450\n",
          "Epoch 20/50\n",
          "31/31 [============ ] - 20s 656ms/step -
loss: 0.7695 - accuracy: 0.7060 - val loss: 0.9519 - val accuracy:
0.6481\n",
          "Epoch 21/50\n",
          "31/31 [============ ] - 21s 675ms/step -
loss: 0.7618 - accuracy: 0.7054 - val loss: 0.9319 - val accuracy:
0.6636\n",
          "Epoch 22/50\n",
          "31/31 [============ ] - 18s 595ms/step -
loss: 0.7771 - accuracy: 0.6984 - val loss: 0.9386 - val accuracy:
0.6628\n",
          "Epoch 23/50\n",
          "31/31 [=========== ] - 19s 624ms/step -
loss: 0.7676 - accuracy: 0.6968 - val loss: 0.9263 - val accuracy:
0.6620\n'',
          "Epoch 24/50\n",
          "31/31 [=========== ] - 19s 615ms/step -
loss: 0.7089 - accuracy: 0.7189 - val loss: 0.8842 - val accuracy:
0.6713\n",
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          "31/31 [=========== ] - 20s 635ms/step -
loss: 0.7140 - accuracy: 0.7199 - val loss: 0.8939 - val accuracy:
0.6759\n",
          "Epoch 26/50\n",
          "31/31 [========== ] - 20s 655ms/step -
loss: 0.7082 - accuracy: 0.7278 - val loss: 0.8927 - val accuracy:
0.6574\n",
          "Epoch 27/50\n",
          loss: 0.6974 - accuracy: 0.7222 - val loss: 0.9203 - val accuracy:
0.6736\n",
          "Epoch 28/50\n",
          "31/31 [=========== ] - 17s 554ms/step -
loss: 0.6858 - accuracy: 0.7288 - val loss: 0.9126 - val accuracy:
0.6636\n",
          "Epoch 29/50\n",
```

```
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loss: 0.6888 - accuracy: 0.7345 - val loss: 0.8747 - val accuracy:
0.6690\n",
          "Epoch 30/50\n",
          "31/31 [========== ] - 20s 629ms/step -
loss: 0.6781 - accuracy: 0.7431 - val loss: 0.9334 - val accuracy:
0.6512\n'',
          "Epoch 31/50\n",
          "31/31 [============ ] - 19s 616ms/step -
loss: 0.6553 - accuracy: 0.7427 - val loss: 0.9128 - val accuracy:
0.6690\n",
          "Epoch 32/50\n",
          "31/31 [========== ] - 19s 597ms/step -
loss: 0.6629 - accuracy: 0.7391 - val loss: 0.9904 - val accuracy:
0.6458\n",
          "Epoch 33/50\n",
          "31/31 [======= ] - 19s 613ms/step -
loss: 0.6481 - accuracy: 0.7414 - val_loss: 0.9626 - val_accuracy:
0.6381\n",
          "Epoch 34/50\n",
          "31/31 [============ ] - 21s 660ms/step -
loss: 0.6615 - accuracy: 0.7341 - val loss: 0.9099 - val accuracy:
0.6667\n",
          "Epoch 35/50\n",
          "31/31 [============ ] - 19s 626ms/step -
loss: 0.6218 - accuracy: 0.7566 - val loss: 0.8818 - val accuracy:
0.6713\n'',
          "Epoch 36/50\n",
          "31/31 [============ ] - 18s 593ms/step -
loss: 0.6110 - accuracy: 0.7665 - val loss: 0.8745 - val accuracy:
0.6744\n",
          "Epoch 37/50\n",
          "31/31 [=========== ] - 19s 615ms/step -
loss: 0.6063 - accuracy: 0.7639 - val loss: 0.8847 - val accuracy:
0.6814\n",
          "Epoch 38/50\n",
          "31/31 [=========== ] - 19s 632ms/step -
loss: 0.5810 - accuracy: 0.7662 - val loss: 0.9403 - val accuracy:
0.6705\n",
          "Epoch 39/50\n",
          "31/31 [============ ] - 21s 659ms/step -
loss: 0.5647 - accuracy: 0.7748 - val loss: 0.8768 - val accuracy:
0.6875\n",
          "Epoch 40/50\n",
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loss: 0.5656 - accuracy: 0.7804 - val loss: 0.8909 - val accuracy:
0.6968\n",
          "Epoch 41/50\n",
          loss: 0.5622 - accuracy: 0.7705 - val loss: 0.9996 - val accuracy:
0.6527\n",
          "Epoch 42/50\n",
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loss: 0.5627 - accuracy: 0.7877 - val loss: 0.8922 - val accuracy:
0.6945\n",
          "Epoch 43/50\n",
```

```
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loss: 0.5462 - accuracy: 0.7874 - val loss: 0.9363 - val accuracy:
0.6613\n",
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loss: 0.5266 - accuracy: 0.7854 - val loss: 1.0029 - val accuracy:
0.6821\n",
          "Epoch 45/50\n",
          loss: 0.5482 - accuracy: 0.7857 - val loss: 0.9348 - val accuracy:
0.6759\n",
          "Epoch 46/50\n",
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loss: 0.5440 - accuracy: 0.7930 - val loss: 0.9796 - val accuracy:
0.6721\n'',
          "Epoch 47/50\n",
          loss: 0.5768 - accuracy: 0.7798 - val_loss: 0.9920 - val accuracy:
0.6682\n",
          "Epoch 48/50\n",
          "31/31 [============ ] - 20s 625ms/step -
loss: 0.5214 - accuracy: 0.7960 - val loss: 0.8894 - val accuracy:
0.6845\n",
          "Epoch 49/50\n",
          "31/31 [======== ] - 18s 561ms/step -
loss: 0.5127 - accuracy: 0.7999 - val loss: 0.9061 - val accuracy:
0.6790\n",
          "Epoch 50/50\n",
          "31/31 [============ ] - 20s 658ms/step -
loss: 0.5015 - accuracy: 0.8079 - val loss: 0.9536 - val accuracy:
0.6883\n"
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        "testing('flower5.jpg')"
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        "* The dataset has about 4317 images from 5 different
classes.\n",
```

```
"* Each classes have more than 500 images for training the
data.\n",
        "* 30% of the data taken for validation.\n",
        "* The accuracy of the model is around 80%.\n",
        "* The validation accuracy is around 70%.\n",
        "* The model is built with 2 layered convolutional network
considering 1344 trainable parameters.\n",
        "* Testing the model with unknown images gives 95% accuracy."
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