

```

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        "import pandas as pd\n",
        "import matplotlib.pyplot as plt\n",
        "import glob\n",
        "from PIL import Image\n",
        "import os\n",
        "from os import listdir\n",
        "import tensorflow as tf\n",
        "import keras\n",
        "import keras.backend as K\n",
        "\n",
        "from keras.optimizers import SGD, Adam, Adagrad, RMSprop\n",
        "from keras.applications import *\n",
        "from keras.preprocessing import *\n",
        "from keras.applications.resnet50 import ResNet50\n",
        "from keras.applications.vgg19 import VGG19\n",
        "from keras.preprocessing.image import ImageDataGenerator, array_to_img, img_to_array,\nload_img\n",
        "from keras.callbacks import EarlyStopping, ReduceLROnPlateau\n",
        "from keras.models import Sequential\n",
        "from keras.layers import Dense, Conv2D, MaxPool2D, MaxPooling2D, Flatten,\nBatchNormalization, Dropout, Activation\n",
        "from keras.utils.np_utils import to_categorical\n",
        "from sklearn.model_selection import train_test_split"
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}

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]
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    "directory = r\"C:\\Users\\GUITA\\Desktop\\Stuff\\Notes\\Digital\naturalist\\Implementation\\Digital Naturalist Dataset\\\"\n",
    "\ntf.keras.preprocessing.image_dataset_from_directory(\n",
    "    directory,\n",
    "    labels=\"inferred\",
  
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" label_mode=\"int\",\\n",
" class_names=None,\\n",
" color_mode=\"rgb\",\\n",
" batch_size=32,\\n",
" image_size=(256, 256),\\n",
" shuffle=True,\\n",
" seed=None,\\n",
" validation_split=None,\\n",
" subset=None,\\n",
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")"
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Naturalist\\\\\\\\Implementation\\\\\\\\Digital Naturalist Dataset\\\\\\\\Bird\\\\\\\\Great Indian Bustard Bird',\\n",
"C:\\\\Users\\\\\\\\GUITA\\\\\\\\Desktop\\\\\\\\Stuff\\\\\\\\Notes\\\\\\\\Digital
Naturalist\\\\\\\\Implementation\\\\\\\\Digital Naturalist Dataset\\\\\\\\Bird\\\\\\\\Spoon Billed Sandpiper
Bird',\\n",
"C:\\\\Users\\\\\\\\GUITA\\\\\\\\Desktop\\\\\\\\Stuff\\\\\\\\Notes\\\\\\\\Digital
Naturalist\\\\\\\\Implementation\\\\\\\\Digital Naturalist Dataset\\\\\\\\Flower\\\\\\\\Corpse Flower',\\n",
"C:\\\\Users\\\\\\\\GUITA\\\\\\\\Desktop\\\\\\\\Stuff\\\\\\\\Notes\\\\\\\\Digital
Naturalist\\\\\\\\Implementation\\\\\\\\Digital Naturalist Dataset\\\\\\\\Flower\\\\\\\\Lady Slipper Orchid
Flower',\\n",

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        " 'C:\\\\Users\\\\\\GUITA\\\\\\Desktop\\\\\\Stuff\\\\\\Notes\\\\\\Digital
Naturalist\\\\\\Implementation\\\\\\Digital Naturalist Dataset\\\\\\Mammal\\\\\\Pangolin Mammal',\n",

        " 'C:\\\\Users\\\\\\GUITA\\\\\\Desktop\\\\\\Stuff\\\\\\Notes\\\\\\Digital
Naturalist\\\\\\Implementation\\\\\\Digital Naturalist Dataset\\\\\\Mammal\\\\\\Senenca White Deer
Mammal']"

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    "directory = r\"C:\\Users\\GUITA\\Desktop\\Stuff\\Notes\\Digital
Naturalist\\Implementation\\Digital Naturalist Dataset\\\"\n",

    "folders=lstidir(directory) \n",

    "def getListOfFiles (directory) :\n",

    "    listOfFile = os.listdir (directory)\n",

    "    allFiles = list()\n",

    "    for fol_name in listOfFile:\n",

    "        fullPath = os.path.join(directory,fol_name)\n",

    "        allFiles.append(fullPath)\n",

    "    return allFiles\n",

    "Folders = getListOfFiles(directory)\n",

    "len(Folders)\n",

    "subfolders = []\n",

    "for num in range (len (Folders)):\n",

    "    sub_fols = getListOfFiles (Folders [num])\n",

    "    subfolders+=sub_fols\n",

    "subfolders"

]

},

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    "Y_data=[]\n",
    "id_no=0\n",
    "found=[]\n",
    "for paths in subfolders:\n",
    "    files=glob.glob(paths+\"/*.jpg\")\n",
    "    found.append((paths.split('\\\\\\\\')[-2],paths.split('\\\\\\\\')[-1]))\n",
    "    for myFile in files:\n",
    "        img=Image.open(myFile)\n",
    "        img=img.resize((256,256),Image.ANTIALIAS)\n",
    "        img=np.array(img)\n",
    "        if img.shape==(256,256,3):\n",
    "            X_data.append(img)\n",
    "            Y_data.append(id_no)\n",
    "            id_no+=1"
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"text": [
  "The model has 110 inputs\n"
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  "#print (X_data)\n",
  "#print (Y_data)\n",
  "X = np.array(X_data)\n",
  "Y = np.array(Y_data)\n",
  "#print(\"x-shape\", X.shape, \"y shape\", Y.shape)\n",
  "X = X.astype('float32')/255.0\n",
  "y_cat = to_categorical (Y_data, len (subfolders)) \n",
  "#print(\"X shape\",X, \"y_cat_shape\", y_cat) \n",
  "#print(\"X shape\", X.shape, \"y_cat shape\", y_cat.shape)\n",
  "X_train, X_test, y_train, y_test = train_test_split (X, y_cat, test_size=0.2) \n",
  "print(\"The model has \" + str(len(X_train)) + \" inputs\")"
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applications/inception_v3/inception_v3_weights_tf_dim_ordering_tf_kernels_notop.h5\n",
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}

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    ]
}
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    "inception = InceptionV3(input_shape=IMAGE_SIZE+[3],weights='imagenet',include_top=False)"
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        "for layer in inception.layers:\n",
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        "    \n",
        "for layer in inception.layers[250:]:\n",
        "    layer.trainable = True"
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        "def load_CNN (output_size):\n",
        "    model = Sequential()\n",
        "    model.add(inception)\n",
        "    model.add(Flatten())\n",

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" model.add(Dense(output_size, activation = 'softmax'))\n",
" return model"
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"learning_rate = ReduceLROnPlateau(monitor='val_accuracy', factor=0.2,patience=5,
min_lr=0.00001) \n",
"model_callbacks = [early_stop_loss, learning_rate ]"
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"def load_CNN (output_size):\n",
" K.clear_session()\n",
" model=Sequential() \n",
" model.add(Dropout (0.4, input_shape=(224, 224, 3)))\n",
" \n",
" model.add(Conv2D (256, (5, 5), input_shape=(224, 224, 3), activation='relu')) \n",
" model.add(MaxPool2D (pool_size=(2, 2)))\n",
" model.add(BatchNormalization())\n",
" \n",

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" model.add(Conv2D (128, (3, 3), activation='relu'))\n",
" model.add(MaxPool2D (pool_size=(2, 2)))\n",
" model.add(BatchNormalization())\n",
" \n",
" model.add(Conv2D (64, (3, 3), activation='relu')) \n",
" model.add(MaxPool2D (pool_size=(2, 2)))\n",
" model.add(BatchNormalization())\n",
" \n",
" model.add(Flatten())\n",
" model.add(Dense (512, activation='relu'))\n",
" model.add(Dropout (0.3))\n",
" model.add(Dense (256, activation='relu'))\n",
" model.add(Dropout (0.3))\n",
" model.add(Dense (128, activation='relu'))\n",
" model.add(Dropout (0.3))\n",
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" model.add(Dense(output_size, activation='softmax'))\n",
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" return model"
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"    model = Sequential()\n",
"    model.add(Conv2D (32, kernel_size=(3,3), activation= 'relu', input_shape=(224,224,3)))\n",

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" model.add(Conv2D (64, (3,3), activation= 'relu')) \n",
" model.add(MaxPooling2D (pool_size=(2,2)))\n",
" model.add(Dropout (0.25))\n",
" model.add(Conv2D (64, (3,3), activation='relu'))\n",
" model.add(MaxPooling2D (pool_size=(2,2)))\n",
" model.add(Dropout (0.25))\n",
" model.add(Conv2D (128, (3,3), activation='relu'))\n",
" model.add(MaxPooling2D (pool_size=(2,2)))\n",
" model.add(Dropout (0.25))\n",
" model.add(Flatten())\n",
" model.add(Dense (64, activation='relu'))\n",
" model.add(Dropout (0.5))\n",
" model.add(Dense (output_size, activation='sigmoid'))\n",
" return model\n",
" "
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"Layer (type)          Output Shape          Param #   \n",
"===== \n",
"inception_v3 (Functional) (None, 6, 6, 2048)    21802784 \n",

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"_____ \n",
"flatten (Flatten)      (None, 73728)      0      \n",
"_____ \n",
"dense (Dense)          (None, 6)          442374 \n",
"===== \n",
"Total params: 22,245,158 \n",
"Trainable params: 10,983,814 \n",
"Non-trainable params: 11,261,344 \n",
"_____ \n"
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"model = load_CNN(6) \n",
"model.compile(loss='categorical_crossentropy', \n",
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"               metrics=['accuracy']) \n",
"model.summary() \n",
"weights = model.get_weights()"
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```

"7/7 [=====] - 10s 878ms/step - loss: 9.4521 - accuracy: 0.3704 -
val_loss: 3.8182 - val_accuracy: 0.8214\n",
"Epoch 2/50\n",
"7/7 [=====] - 5s 701ms/step - loss: 1.1433 - accuracy: 0.8484 -
val_loss: 12.2828 - val_accuracy: 0.8214\n",
"Epoch 3/50\n",
"7/7 [=====] - 5s 704ms/step - loss: 0.1744 - accuracy: 0.9682 -
val_loss: 64.8471 - val_accuracy: 0.6429\n",
"Epoch 4/50\n",
"7/7 [=====] - 5s 706ms/step - loss: 0.1055 - accuracy: 0.9903 -
val_loss: 172.2299 - val_accuracy: 0.4286\n",
"Epoch 5/50\n",
"7/7 [=====] - 5s 774ms/step - loss: 0.0720 - accuracy: 0.9919 -
val_loss: 131.0648 - val_accuracy: 0.4643\n",
"Epoch 6/50\n",
"7/7 [=====] - 6s 805ms/step - loss: 0.0276 - accuracy: 0.9878 -
val_loss: 9.7720 - val_accuracy: 0.8571\n",
"Epoch 7/50\n",
"7/7 [=====] - 6s 807ms/step - loss: 0.2956 - accuracy: 0.9748 -
val_loss: 1.1392 - val_accuracy: 0.9643\n",
"Epoch 8/50\n",
"7/7 [=====] - 5s 801ms/step - loss: 0.1084 - accuracy: 0.9861 -
val_loss: 2.0968e-04 - val_accuracy: 1.0000\n",
"Epoch 9/50\n",
"7/7 [=====] - 6s 813ms/step - loss: 2.4428e-04 - accuracy: 1.0000
- val_loss: 1.7279e-04 - val_accuracy: 1.0000\n",
"Epoch 10/50\n",
"7/7 [=====] - 6s 814ms/step - loss: 0.0272 - accuracy: 0.9877 -
val_loss: 1.0157e-05 - val_accuracy: 1.0000\n",
"Epoch 11/50\n",
"7/7 [=====] - 6s 829ms/step - loss: 0.0187 - accuracy: 0.9903 -
val_loss: 0.2810 - val_accuracy: 0.9643\n",
"Epoch 12/50\n",
"7/7 [=====] - 6s 830ms/step - loss: 9.0752e-04 - accuracy: 1.0000
- val_loss: 2.8620 - val_accuracy: 0.9286\n",

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    "Epoch 13/50\n",
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val_loss: 1.7632 - val_accuracy: 0.9286\n",
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    "model.set_weights(weights)\n",
    "h=model.fit(X_train, y_train,\n",
    "batch_size=16,\n",
    "epochs=50,\n",
    "verbose=1,\n",
    "callbacks=[early_stop_loss],\n",
    "shuffle=True,\n",
    "validation_data= (X_test, y_test))"
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    " 1.76318395e+00]]\n"
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}
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    "histories_loss.append(h.history['loss'])\n",
    "histories_val_loss.append(h.history['val_loss'])\n",
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    "histories_val_acc = np.array(histories_val_acc) \n",
    "histories_loss = np.array(histories_loss) \n",
    "histories_val_loss = np.array(histories_val_loss)\n",
    "\n",
    "print('histories_acc',histories_acc,\n",
    "'histories_loss', histories_loss,\n",

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    "'histories_val_loss', histories_val_loss)"
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`model.predict_classes()` is deprecated and will be removed after 2021-01-01. Please use instead:*
`np.argmax(model.predict(x), axis=-1)`, if your model does multi-class classification (e.g. if it uses a
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