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        "To build a CNN based model which can accurately detect melanoma. 
Melanoma is a type of cancer that can be deadly if not detected early. It 
accounts for 75% of skin cancer deaths. A solution which can evaluate 
images and alert the dermatologists about the presence of melanoma has 
the potential to reduce a lot of manual effort needed in diagnosis.\n",
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        "import numpy as np\n",
        "import pandas as pd\n",
```

```
        "import matplotlib.pyplot as plt\n",
        "import pathlib\n",
        "import tensorflow as tf\n",
        "import PIL\n",
        "import os\n",
        "from tensorflow import keras\n",
        "from tensorflow.keras import layers\n",
        "from tensorflow.keras.models import Sequential"
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The International Skin Imaging Collaboration/Train\")\n",
        "data_dir_test  =
pathlib.Path(\"/content/gdrive/MyDrive/CNN_assignment/Skin cancer ISIC
The International Skin Imaging Collaboration/Test\")"
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        "dir_train.sort()\n",
        "dir_train"
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              " 'seborrheic keratosis',\n",
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check the no. of datapoints in each folder\n",
        "image_count_train =
len(list(data_dir_train.glob('*/*.jpg')))\n",
        "print(image_count_train)\n",
        "image_count_test = len(list(data_dir_test.glob('*/*.jpg')))\n",
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        "## Note use seed=123 while creating your dataset using
tf.keras.preprocessing.image_dataset_from_directory\n",
        "## Note, make sure your resize your images to the size
img_height*img_width, while writting the dataset\n",
```

```
        "#Generates a tf.data.Dataset from the image files in the
directory.\n",
        "train_ds = tf.keras.utils.image_dataset_from_directory(\n",
        "            data_dir_train,\n",
        "            batch_size=batch_size,\n",
        "            image_size=(img_height, img_width),\n",
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            "Using 1792 files for training.\n"
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        "## Note use seed=123 while creating your dataset using
tf.keras.preprocessing.image_dataset_from_directory\n",
        "## Note, make sure your resize your images to the size
img_height*img_width, while writting the dataset\n",
        "#Generates a tf.data.Dataset from the image files in the
directory.\n",
        "val_ds = tf.keras.utils.image_dataset_from_directory(\n",
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list.\n",
        "# You can find the class names in the class_names attribute on
these datasets.\n",
        "# These correspond to the directory names in alphabetical
order.\n",
        "class_names = train_ds.class_names\n",
        "print(class_names)"
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        "for i in range(len(class_names)):\n",
        "   filtered_ds = train_ds.filter(lambda x, l:
tf.math.equal(l[0], i))\n",
        "   for image, label in filtered_ds.take(1):\n",
        "   ax = plt.subplot(3, 3, i+1)\n",
        "   plt.imshow(image[i].numpy().astype('uint8'))\n",
        "   plt.title(class_names[label.numpy()[i]])\n",
        "   plt.axis('off')"
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        "The image_batch is a tensor of the shape (32, 180, 180, 3). This is batch of 32 images of shape 180x180x3 (the last dimension refers to color channels RGB). The label_batch is a tensor of the shape (32,), these are corresponding labels to the 32 images.\n"
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        "val_ds = val_ds.cache().prefetch(buffer_size=AUTOTUNE)"
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        "**Create the model**\n",
        " Create a CNN model, which can accurately detect 9 classes present in the dataset. Use layers.experimental.preprocessing.Rescaling

```
to normalize pixel values between (0,1). The RGB channel values are in
the [0, 255] range. This is not ideal for a neural network. Here, it is
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        "#The Keras sequence class helps create a layer cluster that is
linearly stacked into a tf. keras. Model.\n",
        "num_class = 9\n",
        "model = tf.keras.Sequential([\n",
        "    layers.Rescaling(scale = 1./255, input_shape =
(180,180,3)),\n",
        "    layers.Conv2D(16,3,padding='same',activation= 'relu'),\n",
        "    layers.MaxPooling2D(pool_size = 2, strides = 2),\n",
        "    layers.Conv2D(32,3,padding='same',activation= 'relu'),\n",
        "    layers.MaxPooling2D(pool_size = 2, strides = 2),\n",
        "    layers.Conv2D(64,3,padding='same',activation= 'relu'),\n",
        "    layers.MaxPooling2D(pool_size = 2, strides = 2),\n",
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        "    layers.Dense(num_class)\n",
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packages/keras/src/layers/preprocessing/tf_data_layer.py:19: UserWarning:
Do not pass an `input_shape`/`input_dim` argument to a layer. When using
Sequential models, prefer using an `Input(shape)` object as the first
layer in the model instead.\n",
            "  super().__init__(**kwargs)\n"
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```

```
        "Compile the model\n",
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crossentropy loss between labels and predictions.\n",
        "model.compile(optimizer='adam',\n",
        "
loss=tf.keras.losses.SparseCategoricalCrossentropy(from_logits =
True),\n",
        "              metrics=['accuracy'])"
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        "# View the summary of all layers\n",
        "model.summary()"
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```

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\u001b[0m\u001b[1m \u001b[0m┃\u001b[1m \u001b[0m\u001b[1m        Param
#\u001b[0m\u001b[1m \u001b[0m┃\n",
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──────────────┤\n",
            "│ max_pooling2d_2 (\u001b[38;5;33mMaxPooling2D\u001b[0m)
│ (\u001b[38;5;45mNone\u001b[0m, \u001b[38;5;34m22\u001b[0m,
\u001b[38;5;34m22\u001b[0m, \u001b[38;5;34m64\u001b[0m)          │
\u001b[38;5;34m0\u001b[0m │\n",

"├───────────────────────────────────────┼──────────────────────────────┼──
──────────────┤\n",
            "│ flatten (\u001b[38;5;33mFlatten\u001b[0m)
│ (\u001b[38;5;45mNone\u001b[0m, \u001b[38;5;34m30976\u001b[0m)
│               \u001b[38;5;34m0\u001b[0m │\n",

"├───────────────────────────────────────┼──────────────────────────────┼──
──────────────┤\n",
            "│ dense (\u001b[38;5;33mDense\u001b[0m)
│ (\u001b[38;5;45mNone\u001b[0m, \u001b[38;5;34m128\u001b[0m)
│       \u001b[38;5;34m3,965,056\u001b[0m │\n",

"├───────────────────────────────────────┼──────────────────────────────┼──
──────────────┤\n",
            "│ dense_1 (\u001b[38;5;33mDense\u001b[0m)
│ (\u001b[38;5;45mNone\u001b[0m, \u001b[38;5;34m9\u001b[0m)
│           \u001b[38;5;34m1,161\u001b[0m │\n",

"└───────────────────────────────────────┴──────────────────────────────┴──
──────────────┘\n"
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━━━━━━━━━━┳━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━┳━━━━━━━━━━━
━━━━━━━━━━━━━━━━━┓\n",
            "┃<span style=\"font-weight: bold\"> Layer (type)
</span>┃<span style=\"font-weight: bold\"> Output Shape
</span>┃<span style=\"font-weight: bold\">        Param # </span>┃\n",
            "┡━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━
━━━━━━━╇━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━╇━━━━━━━━━━━━━
━━━━━━━━━━━━━━━┩\n",
            "│ rescaling (<span style=\"color: #0087ff; text-
decoration-color: #0087ff\">Rescaling</span>)                 │ (<span
style=\"color: #00d7ff; text-decoration-color: #00d7ff\">None</span>,
<span style=\"color: #00af00; text-decoration-color:
#00af00\">180</span>, <span style=\"color: #00af00; text-decoration-
color: #00af00\">180</span>, <span style=\"color: #00af00; text-
decoration-color: #00af00\">3</span>)        │              <span
style=\"color: #00af00; text-decoration-color: #00af00\">0</span> │\n",
```

```
"├─────────────────────────────────────┼─────────────────────────────┼──
──────────────┤\n",
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color: #0087ff\">Conv2D</span>)                      │ (<span
style=\"color: #00d7ff; text-decoration-color: #00d7ff\">None</span>,
<span style=\"color: #00af00; text-decoration-color:
#00af00\">180</span>, <span style=\"color: #00af00; text-decoration-
color: #00af00\">180</span>, <span style=\"color: #00af00; text-
decoration-color: #00af00\">16</span>)       │             <span
style=\"color: #00af00; text-decoration-color: #00af00\">448</span> │\n",

"├─────────────────────────────────────┼─────────────────────────────┼──
──────────────┤\n",
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decoration-color: #0087ff\">MaxPooling2D</span>)         │ (<span
style=\"color: #00d7ff; text-decoration-color: #00d7ff\">None</span>,
<span style=\"color: #00af00; text-decoration-color: #00af00\">90</span>,
<span style=\"color: #00af00; text-decoration-color: #00af00\">90</span>,
<span style=\"color: #00af00; text-decoration-color: #00af00\">16</span>)
│               <span style=\"color: #00af00; text-decoration-color:
#00af00\">0</span> │\n",

"├─────────────────────────────────────┼─────────────────────────────┼──
──────────────┤\n",
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color: #0087ff\">Conv2D</span>)                    │ (<span
style=\"color: #00d7ff; text-decoration-color: #00d7ff\">None</span>,
<span style=\"color: #00af00; text-decoration-color: #00af00\">90</span>,
<span style=\"color: #00af00; text-decoration-color: #00af00\">90</span>,
<span style=\"color: #00af00; text-decoration-color: #00af00\">32</span>)
│           <span style=\"color: #00af00; text-decoration-color:
#00af00\">4,640</span> │\n",

"├─────────────────────────────────────┼─────────────────────────────┼──
──────────────┤\n",
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decoration-color: #0087ff\">MaxPooling2D</span>)       │ (<span
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<span style=\"color: #00af00; text-decoration-color: #00af00\">45</span>,
<span style=\"color: #00af00; text-decoration-color: #00af00\">45</span>,
<span style=\"color: #00af00; text-decoration-color: #00af00\">32</span>)
│               <span style=\"color: #00af00; text-decoration-color:
#00af00\">0</span> │\n",

"├─────────────────────────────────────┼─────────────────────────────┼──
──────────────┤\n",
              "│ conv2d_2 (<span style=\"color: #0087ff; text-decoration-
color: #0087ff\">Conv2D</span>)                    │ (<span
style=\"color: #00d7ff; text-decoration-color: #00d7ff\">None</span>,
<span style=\"color: #00af00; text-decoration-color: #00af00\">45</span>,
<span style=\"color: #00af00; text-decoration-color: #00af00\">45</span>,
<span style=\"color: #00af00; text-decoration-color: #00af00\">64</span>)
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│           <span style=\"color: #00af00; text-decoration-color:
#00af00\">18,496</span> │\n",

"├─────────────────────────────────────────┼──────────────────────────────┼──
────────────────┤\n",
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decoration-color: #0087ff\">MaxPooling2D</span>)       │ (<span
style=\"color: #00d7ff; text-decoration-color: #00d7ff\">None</span>,
<span style=\"color: #00af00; text-decoration-color: #00af00\">22</span>,
<span style=\"color: #00af00; text-decoration-color: #00af00\">22</span>,
<span style=\"color: #00af00; text-decoration-color: #00af00\">64</span>)
│                <span style=\"color: #00af00; text-decoration-color:
#00af00\">0</span> │\n",

"├─────────────────────────────────────────┼──────────────────────────────┼──
────────────────┤\n",
              "│ flatten (<span style=\"color: #0087ff; text-decoration-
color: #0087ff\">Flatten</span>)                      │ (<span
style=\"color: #00d7ff; text-decoration-color: #00d7ff\">None</span>,
<span style=\"color: #00af00; text-decoration-color:
#00af00\">30976</span>)               │               <span
style=\"color: #00af00; text-decoration-color: #00af00\">0</span> │\n",

"├─────────────────────────────────────────┼──────────────────────────────┼──
────────────────┤\n",
              "│ dense (<span style=\"color: #0087ff; text-decoration-
color: #0087ff\">Dense</span>)                          │ (<span
style=\"color: #00d7ff; text-decoration-color: #00d7ff\">None</span>,
<span style=\"color: #00af00; text-decoration-color:
#00af00\">128</span>)                 │       <span style=\"color:
#00af00; text-decoration-color: #00af00\">3,965,056</span> │\n",

"├─────────────────────────────────────────┼──────────────────────────────┼──
────────────────┤\n",
              "│ dense_1 (<span style=\"color: #0087ff; text-decoration-
color: #0087ff\">Dense</span>)                      │ (<span
style=\"color: #00d7ff; text-decoration-color: #00d7ff\">None</span>,
<span style=\"color: #00af00; text-decoration-color: #00af00\">9</span>)
│            <span style=\"color: #00af00; text-decoration-color:
#00af00\">1,161</span> │\n",

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────────────────┘\n",
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New',monospace\"><span style=\"font-weight: bold\"> Total params:
</span><span style=\"color: #00af00; text-decoration-color:
#00af00\">3,989,801</span> (15.22 MB)\n",
              "</pre>\n"
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            "text/plain": [
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\u001b[0m\u001b[38;5;34m3,989,801\u001b[0m (15.22 MB)\n"
            ],
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height:normal;font-family:Menlo,'DejaVu Sans Mono',consolas,'Courier
New',monospace\"><span style=\"font-weight: bold\"> Trainable params:
</span><span style=\"color: #00af00; text-decoration-color:
#00af00\">3,989,801</span> (15.22 MB)\n",
              "</pre>\n"
            ]
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        {
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          "data": {
            "text/plain": [
              "\u001b[1m Non-trainable params:
\u001b[0m\u001b[38;5;34m0\u001b[0m (0.00 B)\n"
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            "text/html": [
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height:normal;font-family:Menlo,'DejaVu Sans Mono',consolas,'Courier
New',monospace\"><span style=\"font-weight: bold\"> Non-trainable params:
</span><span style=\"color: #00af00; text-decoration-color:
#00af00\">0</span> (0.00 B)\n",
              "</pre>\n"
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        "history = model.fit(\n",
        "  train_ds,\n",
        "  validation_data=val_ds,\n",
        "  epochs=epochs\n",
        ")"
      ],
      "metadata": {
        "colab": {
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        },
        "id": "rVx7JRHfBB0Y",
        "outputId": "5b663871-3ca7-4fde-9f14-21bea6bb3d3f"
      },
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          "text": [
            "Epoch 1/20\n",
            "\u001b[1m56/56\u001b[0m \u001b[32m━━━━━━━━━━━━━━
━━━━━━\u001b[0m\u001b[37m\u001b[0m \u001b[1m272s\u001b[0m 3s/step -
accuracy: 0.2245 - loss: 2.1633 - val_accuracy: 0.3423 - val_loss:
1.9305\n",
            "Epoch 2/20\n",
            "\u001b[1m56/56\u001b[0m \u001b[32m━━━━━━━━━━━━━━
━━━━━━\u001b[0m\u001b[37m\u001b[0m \u001b[1m1s\u001b[0m 19ms/step -
accuracy: 0.3259 - loss: 1.8715 - val_accuracy: 0.4183 - val_loss:
1.6804\n",
            "Epoch 3/20\n",
            "\u001b[1m56/56\u001b[0m \u001b[32m━━━━━━━━━━━━━━
━━━━━━\u001b[0m\u001b[37m\u001b[0m \u001b[1m1s\u001b[0m 18ms/step -
accuracy: 0.4601 - loss: 1.6087 - val_accuracy: 0.4877 - val_loss:
1.5426\n",
            "Epoch 4/20\n",
            "\u001b[1m56/56\u001b[0m \u001b[32m━━━━━━━━━━━━━━
━━━━━━\u001b[0m\u001b[37m\u001b[0m \u001b[1m1s\u001b[0m 18ms/step -
accuracy: 0.4633 - loss: 1.4952 - val_accuracy: 0.4966 - val_loss:
1.4581\n",
            "Epoch 5/20\n",
            "\u001b[1m56/56\u001b[0m \u001b[32m━━━━━━━━━━━━━━
━━━━━━\u001b[0m\u001b[37m\u001b[0m \u001b[1m1s\u001b[0m 20ms/step -
```

```
accuracy: 0.5222 - loss: 1.3453 - val_accuracy: 0.5235 - val_loss:
1.3747\n",
            "Epoch 6/20\n",
            "\u001b[1m56/56\u001b[0m \u001b[32m━━━━━━━━━━━━━━━
━━━━━\u001b[0m\u001b[37m\u001b[0m \u001b[1m1s\u001b[0m 18ms/step -
accuracy: 0.5585 - loss: 1.2497 - val_accuracy: 0.5459 - val_loss:
1.3511\n",
            "Epoch 7/20\n",
            "\u001b[1m56/56\u001b[0m \u001b[32m━━━━━━━━━━━━━━━
━━━━━\u001b[0m\u001b[37m\u001b[0m \u001b[1m1s\u001b[0m 18ms/step -
accuracy: 0.5918 - loss: 1.1572 - val_accuracy: 0.5526 - val_loss:
1.3318\n",
            "Epoch 8/20\n",
            "\u001b[1m56/56\u001b[0m \u001b[32m━━━━━━━━━━━━━━━
━━━━━\u001b[0m\u001b[37m\u001b[0m \u001b[1m1s\u001b[0m 19ms/step -
accuracy: 0.6258 - loss: 1.0594 - val_accuracy: 0.4922 - val_loss:
1.4727\n",
            "Epoch 9/20\n",
            "\u001b[1m56/56\u001b[0m \u001b[32m━━━━━━━━━━━━━━━
━━━━━\u001b[0m\u001b[37m\u001b[0m \u001b[1m1s\u001b[0m 21ms/step -
accuracy: 0.6135 - loss: 1.0626 - val_accuracy: 0.5570 - val_loss:
1.4225\n",
            "Epoch 10/20\n",
            "\u001b[1m56/56\u001b[0m \u001b[32m━━━━━━━━━━━━━━━
━━━━━\u001b[0m\u001b[37m\u001b[0m \u001b[1m1s\u001b[0m 20ms/step -
accuracy: 0.6736 - loss: 0.9102 - val_accuracy: 0.5280 - val_loss:
1.4528\n",
            "Epoch 11/20\n",
            "\u001b[1m56/56\u001b[0m \u001b[32m━━━━━━━━━━━━━━━
━━━━━\u001b[0m\u001b[37m\u001b[0m \u001b[1m1s\u001b[0m 20ms/step -
accuracy: 0.6997 - loss: 0.7972 - val_accuracy: 0.5347 - val_loss:
1.5937\n",
            "Epoch 12/20\n",
            "\u001b[1m56/56\u001b[0m \u001b[32m━━━━━━━━━━━━━━━
━━━━━\u001b[0m\u001b[37m\u001b[0m \u001b[1m1s\u001b[0m 18ms/step -
accuracy: 0.7303 - loss: 0.7385 - val_accuracy: 0.5190 - val_loss:
1.5720\n",
            "Epoch 13/20\n",
            "\u001b[1m56/56\u001b[0m \u001b[32m━━━━━━━━━━━━━━━
━━━━━\u001b[0m\u001b[37m\u001b[0m \u001b[1m1s\u001b[0m 20ms/step -
accuracy: 0.7566 - loss: 0.6918 - val_accuracy: 0.5391 - val_loss:
1.6845\n",
            "Epoch 14/20\n",
            "\u001b[1m56/56\u001b[0m \u001b[32m━━━━━━━━━━━━━━━
━━━━━\u001b[0m\u001b[37m\u001b[0m \u001b[1m1s\u001b[0m 18ms/step -
accuracy: 0.7988 - loss: 0.5597 - val_accuracy: 0.4989 - val_loss:
1.8078\n",
            "Epoch 15/20\n",
            "\u001b[1m56/56\u001b[0m \u001b[32m━━━━━━━━━━━━━━━
━━━━━\u001b[0m\u001b[37m\u001b[0m \u001b[1m1s\u001b[0m 20ms/step -
```

```
accuracy: 0.8088 - loss: 0.5663 - val_accuracy: 0.5548 - val_loss:
1.8722\n",
            "Epoch 16/20\n",
            "\u001b[1m56/56\u001b[0m \u001b[32m━━━━━━━━━━━━━━━━━━━━
\u001b[0m\u001b[37m\u001b[0m \u001b[1m1s\u001b[0m 18ms/step -
accuracy: 0.8396 - loss: 0.4597 - val_accuracy: 0.5056 - val_loss:
2.0008\n",
            "Epoch 17/20\n",
            "\u001b[1m56/56\u001b[0m \u001b[32m━━━━━━━━━━━━━━━━━━━━
\u001b[0m\u001b[37m\u001b[0m \u001b[1m1s\u001b[0m 19ms/step -
accuracy: 0.8460 - loss: 0.4142 - val_accuracy: 0.5369 - val_loss:
2.1951\n",
            "Epoch 18/20\n",
            "\u001b[1m56/56\u001b[0m \u001b[32m━━━━━━━━━━━━━━━━━━━━
\u001b[0m\u001b[37m\u001b[0m \u001b[1m1s\u001b[0m 18ms/step -
accuracy: 0.8722 - loss: 0.3552 - val_accuracy: 0.5034 - val_loss:
2.0820\n",
            "Epoch 19/20\n",
            "\u001b[1m56/56\u001b[0m \u001b[32m━━━━━━━━━━━━━━━━━━━━
\u001b[0m\u001b[37m\u001b[0m \u001b[1m1s\u001b[0m 18ms/step -
accuracy: 0.8752 - loss: 0.3359 - val_accuracy: 0.5302 - val_loss:
2.1694\n",
            "Epoch 20/20\n",
            "\u001b[1m56/56\u001b[0m \u001b[32m━━━━━━━━━━━━━━━━━━━━
\u001b[0m\u001b[37m\u001b[0m \u001b[1m1s\u001b[0m 21ms/step -
accuracy: 0.8894 - loss: 0.3019 - val_accuracy: 0.5213 - val_loss:
2.3684\n"
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        "val_acc = history.history['val_accuracy']\n",
        "\n",
        "loss = history.history['loss']\n",
        "val_loss = history.history['val_loss']\n",
        "\n",
        "epochs_range = range(epochs)\n",
        "\n",
        "plt.figure(figsize=(8, 8))\n",
```

```
        "plt.subplot(1, 2, 1)\n",
        "plt.plot(epochs_range, acc, label='Training Accuracy')\n",
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        "   (2) The loss on the training set decreases after each epoch, but in the case of the validation set, it climbs back again after the 5th epoch.\n",
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        "
plt.imshow(data_augmentation(img)[i].numpy().astype('uint8'))\n",
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overfitting in your findings\n",

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linearly stacked into a tf. keras. Model.\n",
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        "model = Sequential([\n",
        "  data_augmentation,\n",
        "  layers.Rescaling(1./255),\n",
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        "  layers.MaxPooling2D(),\n",
        "  layers.Conv2D(32, 3, padding='same', activation='relu'),\n",
        "  layers.MaxPooling2D(),\n",
        "  layers.Conv2D(64, 3, padding='same', activation='relu'),\n",
        "  layers.MaxPooling2D(),\n",
        "  layers.Dropout(0.3),\n",
        "  layers.Flatten(),\n",
        "  layers.Dense(128, activation='relu'),\n",
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        "  layers.Dense(num_classes)\n",
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loss=tf.keras.losses.SparseCategoricalCrossentropy(from_logits =
True),\n",
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            "Epoch 2/20\n",
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            "Epoch 3/20\n",
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            "Epoch 5/20\n",
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accuracy: 0.4617 - loss: 1.5227 - val_accuracy: 0.4765 - val_loss:
1.5680\n",
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accuracy: 0.4547 - loss: 1.5050 - val_accuracy: 0.4787 - val_loss:
1.4442\n",
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accuracy: 0.4668 - loss: 1.4917 - val_accuracy: 0.4810 - val_loss:
1.4898\n",
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accuracy: 0.4960 - loss: 1.4463 - val_accuracy: 0.5324 - val_loss:
1.3926\n",
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accuracy: 0.5271 - loss: 1.3673 - val_accuracy: 0.4966 - val_loss:
1.4472\n",
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━━━━━\u001b[0m\u001b[37m\u001b[0m \u001b[1m2s\u001b[0m 32ms/step -
accuracy: 0.5224 - loss: 1.3646 - val_accuracy: 0.5123 - val_loss:
1.4072\n",
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accuracy: 0.5288 - loss: 1.3305 - val_accuracy: 0.4676 - val_loss:
1.5248\n",
            "Epoch 12/20\n",
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accuracy: 0.5096 - loss: 1.3914 - val_accuracy: 0.5190 - val_loss:
1.3890\n",
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accuracy: 0.5308 - loss: 1.3372 - val_accuracy: 0.5190 - val_loss:
1.3721\n",
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accuracy: 0.5330 - loss: 1.2736 - val_accuracy: 0.5280 - val_loss:
1.4143\n",
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━━━━━\u001b[0m\u001b[37m\u001b[0m \u001b[1m2s\u001b[0m 33ms/step -
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accuracy: 0.5522 - loss: 1.2717 - val_accuracy: 0.5324 - val_loss:
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━━━━━━━━\u001b[0m\u001b[37m\u001b[0m \u001b[1m2s\u001b[0m 34ms/step -
accuracy: 0.5565 - loss: 1.2269 - val_accuracy: 0.5302 - val_loss:
1.3388\n",
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━━━━━━━━\u001b[0m\u001b[37m\u001b[0m \u001b[1m2s\u001b[0m 33ms/step -
accuracy: 0.5655 - loss: 1.2285 - val_accuracy: 0.5436 - val_loss:
1.3082\n",
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━━━━━━━━\u001b[0m\u001b[37m\u001b[0m \u001b[1m2s\u001b[0m 31ms/step -
accuracy: 0.5557 - loss: 1.2846 - val_accuracy: 0.5190 - val_loss:
1.3519\n",
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━━━━━━━━\u001b[0m\u001b[37m\u001b[0m \u001b[1m2s\u001b[0m 32ms/step -
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        "val_loss = history.history['val_loss']\n",
        "\n",
        "epochs_range = range(epochs)\n",
        "\n",
        "plt.figure(figsize=(8, 8))\n",

```
        "plt.subplot(1, 2, 1)\n",
        "plt.plot(epochs_range, acc, label='Training Accuracy')\n",
        "plt.plot(epochs_range, val_acc, label='Validation Accuracy')\n",
        "plt.legend(loc='lower right')\n",
        "plt.title('Training and Validation Accuracy')\n",
        "\n",
        "plt.subplot(1, 2, 2)\n",
        "plt.plot(epochs_range, loss, label='Training Loss')\n",
        "plt.plot(epochs_range, val_loss, label='Validation Loss')\n",
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        "plt.title('Training and Validation Loss')\n",
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400h160v-160H180v160Zm440 0h160v-160H620v160ZM180-180h160v-
160H180v160Zm440 0h160v-160H620v160Z\"/>\n",
              "  </svg>\n",
              "    </button>\n",
              "\n",
              "  <style>\n",
              "    .colab-df-container {\n",
              "      display:flex;\n",
              "      gap: 12px;\n",
              "    }\n",
              "\n",
              "    .colab-df-convert {\n",
              "      background-color: #E8F0FE;\n",
              "      border: none;\n",
              "      border-radius: 50%;\n",
              "      cursor: pointer;\n",
              "      display: none;\n",
              "      fill: #1967D2;\n",
              "      height: 32px;\n",
              "      padding: 0 0 0 0;\n",
              "      width: 32px;\n",
              "    }\n",
              "\n",
              "    .colab-df-convert:hover {\n",
              "      background-color: #E2EBFA;\n",
              "      box-shadow: 0px 1px 2px rgba(60, 64, 67, 0.3), 0px
1px 3px 1px rgba(60, 64, 67, 0.15);\n",
              "      fill: #174EA6;\n",
              "    }\n",
              "\n",
              "    .colab-df-buttons div {\n",
              "      margin-bottom: 4px;\n",
              "    }\n",
              "\n",
              "    [theme=dark] .colab-df-convert {\n",
              "      background-color: #3B4455;\n",
              "      fill: #D2E3FC;\n",
              "    }\n",
              "\n",
```

```
            "    [theme=dark] .colab-df-convert:hover {\n",
            "      background-color: #434B5C;\n",
            "      box-shadow: 0px 1px 3px 1px rgba(0, 0, 0, 0.15);\n",
            "      filter: drop-shadow(0px 1px 2px rgba(0, 0, 0,
0.3));\n",
            "      fill: #FFFFFF;\n",
            "    }\n",
            "  </style>\n",
            "\n",
            "    <script>\n",
            "      const buttonEl =\n",
            "        document.querySelector('#df-0a58b6be-4bac-440a-
881d-b623fad84f1e button.colab-df-convert');\n",
            "      buttonEl.style.display =\n",
            "        google.colab.kernel.accessAllowed ? 'block' :
'none';\n",
            "\n",
            "      async function convertToInteractive(key) {\n",
            "        const element = document.querySelector('#df-
0a58b6be-4bac-440a-881d-b623fad84f1e');\n",
            "        const dataTable =\n",
            "          await
google.colab.kernel.invokeFunction('convertToInteractive',\n",
            "                                                    [key],
{});\n",
            "        if (!dataTable) return;\n",
            "\n",
            "        const docLinkHtml = 'Like what you see? Visit the
' +\n",
            "          '<a target=\"_blank\"
href=https://colab.research.google.com/notebooks/data_table.ipynb>data
table notebook</a>'\n",
            "          + ' to learn more about interactive
tables.';\n",
            "        element.innerHTML = '';\n",
            "        dataTable['output_type'] = 'display_data';\n",
            "        await google.colab.output.renderOutput(dataTable,
element);\n",
            "        const docLink = document.createElement('div');\n",
            "        docLink.innerHTML = docLinkHtml;\n",
            "        element.appendChild(docLink);\n",
            "      }\n",
            "    </script>\n",
            "  </div>\n",
            "\n",
            "\n",
            "<div id=\"df-86ba6302-eb9e-4c38-a0d0-acc7f18118e0\">\n",
            "  <button class=\"colab-df-quickchart\"
onclick=\"quickchart('df-86ba6302-eb9e-4c38-a0d0-acc7f18118e0')\"\n",
            "          title=\"Suggest charts\"\n",
            "          style=\"display:none;\">\n",
            "\n",
            "<svg xmlns=\"http://www.w3.org/2000/svg\"
height=\"24px\"viewBox=\"0 0 24 24\"\n",
```

```
"     width=\"24px\">\n",
"    <g>\n",
"        <path d=\"M19 3H5c-1.1 0-2 .9-2 2v14c0 1.1.9 2 2
2h14c1.1 0 2-.9 2-2V5c0-1.1-.9-2-2-2zM9 17H7v-7h2v7zm4 0h-2V7h2v10zm4 0h-
2v-4h2v4z\"/>\n",
"    </g>\n",
"</svg>\n",
"  </button>\n",
"\n",
"<style>\n",
"  .colab-df-quickchart {\n",
"      --bg-color: #E8F0FE;\n",
"      --fill-color: #1967D2;\n",
"      --hover-bg-color: #E2EBFA;\n",
"      --hover-fill-color: #174EA6;\n",
"      --disabled-fill-color: #AAA;\n",
"      --disabled-bg-color: #DDD;\n",
"  }\n",
"\n",
"  [theme=dark] .colab-df-quickchart {\n",
"      --bg-color: #3B4455;\n",
"      --fill-color: #D2E3FC;\n",
"      --hover-bg-color: #434B5C;\n",
"      --hover-fill-color: #FFFFFF;\n",
"      --disabled-bg-color: #3B4455;\n",
"      --disabled-fill-color: #666;\n",
"  }\n",
"\n",
"  .colab-df-quickchart {\n",
"    background-color: var(--bg-color);\n",
"    border: none;\n",
"    border-radius: 50%;\n",
"    cursor: pointer;\n",
"    display: none;\n",
"    fill: var(--fill-color);\n",
"    height: 32px;\n",
"    padding: 0;\n",
"    width: 32px;\n",
"  }\n",
"\n",
"  .colab-df-quickchart:hover {\n",
"    background-color: var(--hover-bg-color);\n",
"    box-shadow: 0 1px 2px rgba(60, 64, 67, 0.3), 0 1px 3px
1px rgba(60, 64, 67, 0.15);\n",
"    fill: var(--button-hover-fill-color);\n",
"  }\n",
"\n",
"  .colab-df-quickchart-complete:disabled,\n",
"  .colab-df-quickchart-complete:disabled:hover {\n",
"    background-color: var(--disabled-bg-color);\n",
"    fill: var(--disabled-fill-color);\n",
"    box-shadow: none;\n",
"  }\n",
"\n",
```

```
"  .colab-df-spinner {\n",
"    border: 2px solid var(--fill-color);\n",
"    border-color: transparent;\n",
"    border-bottom-color: var(--fill-color);\n",
"    animation:\n",
"      spin 1s steps(1) infinite;\n",
"  }\n",
"\n",
"  @keyframes spin {\n",
"    0% {\n",
"      border-color: transparent;\n",
"      border-bottom-color: var(--fill-color);\n",
"      border-left-color: var(--fill-color);\n",
"    }\n",
"    20% {\n",
"      border-color: transparent;\n",
"      border-left-color: var(--fill-color);\n",
"      border-top-color: var(--fill-color);\n",
"    }\n",
"    30% {\n",
"      border-color: transparent;\n",
"      border-left-color: var(--fill-color);\n",
"      border-top-color: var(--fill-color);\n",
"      border-right-color: var(--fill-color);\n",
"    }\n",
"    40% {\n",
"      border-color: transparent;\n",
"      border-right-color: var(--fill-color);\n",
"      border-top-color: var(--fill-color);\n",
"    }\n",
"    60% {\n",
"      border-color: transparent;\n",
"      border-right-color: var(--fill-color);\n",
"    }\n",
"    80% {\n",
"      border-color: transparent;\n",
"      border-right-color: var(--fill-color);\n",
"      border-bottom-color: var(--fill-color);\n",
"    }\n",
"    90% {\n",
"      border-color: transparent;\n",
"      border-bottom-color: var(--fill-color);\n",
"    }\n",
"  }\n",
"</style>\n",
"\n",
"  <script>\n",
"    async function quickchart(key) {\n",
"      const quickchartButtonEl =\n",
"        document.querySelector('#' + key + ' button');\n",
"      quickchartButtonEl.disabled = true;  // To prevent
multiple clicks.\n",
"      quickchartButtonEl.classList.add('colab-df-
spinner');\n",
```

```
            "      try {\n",
            "        const charts = await
google.colab.kernel.invokeFunction(\n",
            "            'suggestCharts', [key], {});\n",
            "      } catch (error) {\n",
            "        console.error('Error during call to
suggestCharts:', error);\n",
            "      }\n",
            "      quickchartButtonEl.classList.remove('colab-df-
spinner');\n",
            "      quickchartButtonEl.classList.add('colab-df-
quickchart-complete');\n",
            "    }\n",
            "    (() => {\n",
            "      let quickchartButtonEl =\n",
            "        document.querySelector('#df-86ba6302-eb9e-4c38-
a0d0-acc7f18118e0 button');\n",
            "      quickchartButtonEl.style.display =\n",
            "        google.colab.kernel.accessAllowed ? 'block' :
'none';\n",
            "    })();\n",
            "  </script>\n",
            "</div>\n",
            "\n",
            "  <div id=\"id_f4671d49-6694-4029-9efb-4cb45308bf54\">\n",
            "    <style>\n",
            "      .colab-df-generate {\n",
            "        background-color: #E8F0FE;\n",
            "        border: none;\n",
            "        border-radius: 50%;\n",
            "        cursor: pointer;\n",
            "        display: none;\n",
            "        fill: #1967D2;\n",
            "        height: 32px;\n",
            "        padding: 0 0 0 0;\n",
            "        width: 32px;\n",
            "      }\n",
            "\n",
            "      .colab-df-generate:hover {\n",
            "        background-color: #E2EBFA;\n",
            "        box-shadow: 0px 1px 2px rgba(60, 64, 67, 0.3), 0px
1px 3px 1px rgba(60, 64, 67, 0.15);\n",
            "        fill: #174EA6;\n",
            "      }\n",
            "\n",
            "      [theme=dark] .colab-df-generate {\n",
            "        background-color: #3B4455;\n",
            "        fill: #D2E3FC;\n",
            "      }\n",
            "\n",
            "      [theme=dark] .colab-df-generate:hover {\n",
            "        background-color: #434B5C;\n",
            "        box-shadow: 0px 1px 3px 1px rgba(0, 0, 0,
0.15);\n",
```

```
            "        filter: drop-shadow(0px 1px 2px rgba(0, 0, 0,
0.3));\n",
            "        fill: #FFFFFF;\n",
            "      }\n",
            "    </style>\n",
            "    <button class=\"colab-df-generate\"
onclick=\"generateWithVariable('original_df')\"\n",
            "            title=\"Generate code using this
dataframe.\"\n",
            "            style=\"display:none;\">\n",
            "\n",
            "  <svg xmlns=\"http://www.w3.org/2000/svg\"
height=\"24px\"viewBox=\"0 0 24 24\"\n",
            "       width=\"24px\">\n",
            "    <path
d=\"M7,19H8.4L18.45,9,17,7.55,7,17.6ZM5,21V16.75L18.45,3.32a2,2,0,0,1,2.8
3,0l1.4,1.43a1.91,1.91,0,0,1,.58,1.4,1.91,1.91,0,0,1-
.58,1.4L9.25,21ZM18.45,9,17,7.55Zm-
12,3A5.31,5.31,0,0,0,4.9,8.1,5.31,5.31,0,0,0,1,6.5,5.31,5.31,0,0,0,4.9,4.
9,5.31,5.31,0,0,0,6.5,1,5.31,5.31,0,0,0,8.1,4.9,5.31,5.31,0,0,0,12,6.5,5.
46,5.46,0,0,0,6.5,12Z\"/>\n",
            "  </svg>\n",
            "    </button>\n",
            "    <script>\n",
            "      (() => {\n",
            "      const buttonEl =\n",
            "        document.querySelector('#id_f4671d49-6694-4029-
9efb-4cb45308bf54 button.colab-df-generate');\n",
            "      buttonEl.style.display =\n",
            "        google.colab.kernel.accessAllowed ? 'block' :
'none';\n",
            "\n",
            "      buttonEl.onclick = () => {\n",
            "
google.colab.notebook.generateWithVariable('original_df');\n",
            "      }\n",
            "      })();\n",
            "    </script>\n",
            "  </div>\n",
            "\n",
            "    </div>\n",
            "  </div>\n"
           ],
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            "type": "dataframe",
            "variable_name": "original_df",
            "summary": "{\n  \"name\": \"original_df\",\n  \"rows\":
2239,\n  \"fields\": [\n    {\n      \"column\": \"Path\",\n
\"properties\": {\n        \"dtype\": \"string\",\n
\"num_unique_values\": 2239,\n        \"samples\": [\n
\"/content/gdrive/MyDrive/CNN_assignment/Skin cancer ISIC The
International Skin Imaging Collaboration/Train/pigmented benign
keratosis/ISIC_0025642.jpg\",\n
\"/content/gdrive/MyDrive/CNN_assignment/Skin cancer ISIC The
```

```
International Skin Imaging Collaboration/Train/actinic
keratosis/ISIC_0032422.jpg\",\n
\"/content/gdrive/MyDrive/CNN_assignment/Skin cancer ISIC The
International Skin Imaging Collaboration/Train/squamous cell
carcinoma/ISIC_0025247.jpg\"\n        ],\n        \"semantic_type\":
\"\",\n        \"description\": \"\"\n      }\n    },\n    {\n
\"column\": \"Label\",\n      \"properties\": {\n        \"dtype\":
\"category\",\n        \"num_unique_values\": 9,\n        \"samples\":
[\n          \"squamous cell carcinoma\",\n          \"basal cell
carcinoma\",\n          \"pigmented benign keratosis\"\n        ],\n
\"semantic_type\": \"\",\n        \"description\": \"\"\n      }\n    }\n
]\n}"
            }
          },
          "metadata": {},
          "execution_count": 25
        }
      ]
    },
    {
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      "source": [
        "class_count=[]\n",
        "for i in class_names:\n",
        "
class_count.append(len(list(data_dir_train.glob(i+'/*.jpg'))))\n",
        "plt.figure(figsize=(25,10))\n",
        "plt.bar(class_names,class_count)"
      ],
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          "height": 503
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      },
      "execution_count": 26,
      "outputs": [
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          "output_type": "execute_result",
          "data": {
            "text/plain": [
              "<BarContainer object of 9 artists>"
            ]
          },
          "metadata": {},
          "execution_count": 26
        },
        {
          "output_type": "display_data",
          "data": {
            "text/plain": [
              "<Figure size 2500x1000 with 1 Axes>"
```

],
"image/png":
"iVBORw0KGgoAAAANSUhEUgAAB8kAAAMtCAYAAAAcwECPAAAAOXRFWHRTb2Z0d2FyZQBNYXRw
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Lz1vWYolmWgUVWKueYEWSYlqgdvKbgsWMX85LiJQERy5lAUpHrt/fHz3sHxt
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EA2RHIAAAAAAAAsiGSAwAAAAAAJANkRwAAAAAAACAbIjkAAAAAAAAAGRDJAcAAAAAAAAAgGy
I5AAAAAAAANkQyQEAAAAAAADIhkgOAAAAAAAAQDZEcgAAAAAAAACyIZIDAAAAAAAAkA2RHAA
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AABANkRyAAAAAAAALIhkgMAAAAAAACQDZEcAAAAAAAAgGyI5AAAAAAAAABkQyQHAAAAAAAAI
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AAAABANkRyAAAAAAAALIhkgMAAAAAAACQDZEcAAAAAAAAgGyI5AAAAAAAABkQyQHAAAAAAAA
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ANkRwAAAAAAACAbIjkAAAAAAAAAGRDJAcAAAAAAAAAgGyI5AAAAAAAANkQyQEAAAAAAADIhkg
OAAAAAAAAQDZEcgAAAAAAACyIZIDAAAAAAAAkA2RHAAAAAAAAIBsiOQAAAAAAAAAZEMkBwAA
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ACQDZEcAAAAAAAgGyI5AAAAAAAABkQyQHAAAAAAAAAIBsiOQAAAAAAAADZEMkBAAAAAAAAAyI
ZIDgAAAAAAAEA2RHIAAAAAAAAAsiGSAwAAAAAAAJANkRwAAAAAAACAbIjkAAAAAAAAAGRDJAc
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PWW2+NNm3aFKbX1tbGbbfdFtdee218/OMfjw9/+MMxceLEeOqpp+Ivf/lLRET84Q9/iPnz58fPf/7
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RDJAQAAAAAAAMiGSA4AAAAAAABANkRyAAAAAAAALIhkgMAAAAAAACQDZEcAAAAAAAAgGyI5AAAAA
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AAAAAAADIhkgOAAAAAAAAQDZEcgAAAAAAACyIZIDAAAAAAAAkA2RHAAAAAAAAIBsiOQAAAAAAA
AAZEMkBwAAAAAAACAbIjkAAAAAAAA2RDJAQAAAAAAAMiGSA4AAAAAAABANkRyAAAAAAAALIhk
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        "* pigmented benign\n",
        "* melanoma\n",
        "* basal cell carcinoma\n",
        "* nevus\n",
        "\n",
        "Rectify the class imbalance\n",
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The International Skin Imaging Collaboration/Train\")\n",
      "train_ds =
tf.keras.preprocessing.image_dataset_from_directory(\n",
      "                                           data_dir_train,\n",
      "                                           seed=123,\n",
      "                                           validation_split = 0.2,\n",
      "                                           subset = 'training',## Todo
choose the correct parameter value, so that only training data is refered
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img_width),\n",
      "                                           batch_size=batch_size)"
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tf.keras.preprocessing.image_dataset_from_directory(\n",
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        "                                  seed=123,\n",
        "                                  validation_split = 0.2,\n",
        "                                  subset = 'validation',## Todo 
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        "  layers.MaxPooling2D(),\n",
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        "  layers.Conv2D(64, 3, padding='same', activation='relu'),\n",
        "  layers.MaxPooling2D(),\n",
        "  layers.Dropout(0.3),\n",
        "  layers.Flatten(),\n",
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accuracy: 0.4929 - loss: 1.3355 - val_accuracy: 0.5085 - val_loss:
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accuracy: 0.5147 - loss: 1.2907 - val_accuracy: 0.5026 - val_loss:
1.2572\n",
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accuracy: 0.5287 - loss: 1.2471 - val_accuracy: 0.5152 - val_loss:
1.2049\n",
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accuracy: 0.5135 - loss: 1.2527 - val_accuracy: 0.5063 - val_loss:
1.2596\n",
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accuracy: 0.5258 - loss: 1.2063 - val_accuracy: 0.5226 - val_loss:
1.2161\n",
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accuracy: 0.5392 - loss: 1.1745 - val_accuracy: 0.5204 - val_loss:
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accuracy: 0.5523 - loss: 1.1636 - val_accuracy: 0.5330 - val_loss:
1.1949\n",
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accuracy: 0.5482 - loss: 1.1789 - val_accuracy: 0.5174 - val_loss:
1.2144\n",
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accuracy: 0.5602 - loss: 1.1424 - val_accuracy: 0.5345 - val_loss:
1.1654\n",
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accuracy: 0.5632 - loss: 1.1152 - val_accuracy: 0.5457 - val_loss:
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accuracy: 0.5804 - loss: 1.0821 - val_accuracy: 0.5323 - val_loss: 1.1847\n",
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"Epoch 19/30\n",
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"Epoch 24/30\n",
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"Epoch 25/30\n",
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"Epoch 26/30\n",
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accuracy: 0.6430 - loss: 0.9316 - val_accuracy: 0.5902 - val_loss:
1.0129\n",
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accuracy: 0.6605 - loss: 0.8945 - val_accuracy: 0.6058 - val_loss:
0.9998\n",
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        "img_array = tf.expand_dims(img_array, 0) # Create a batch\n",
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