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        "import cv2\n",
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        "import pandas as pd\n",
        "import os\n",
        "import PIL\n",
        "import random\n",
        "import cv2\n",
        "from tensorflow.keras import layers, models\n",
        "import tensorflow as tf\n",
        "import pandas as pd\n",
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},
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        "\\n",
        "CLASS_NAMES = np.array([str(tf.strings.split(item,
os.path.sep)[-1].numpy())[2:-1]\\n",
        "                                for item in
tf.io.gfile.glob(str(GCS_PATH + \"*/*\")]))\\n",
        "CLASS_NAMES"
    ],
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```

```

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    "    folder_path = os.path.join(GCS_PATH, f)\n",
    "    for path in os.listdir(os.path.join(folder_path)):\n",
    "        files_count.append(['{}/{}'.format(folder_path,path), f,
i]))\n",
    "flowers_df = pd.DataFrame(files_count, columns=['filepath',
'class_name', 'label'])\n",
    "flowers_df.head()"
  ],
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          "
                                filepath
class_name  label\n",
daisy      0\n",
            "1  /content/drive/MyDrive/Flowers-Dataset/flowers...
daisy      0\n",
            "2  /content/drive/MyDrive/Flowers-Dataset/flowers...
daisy      0\n",
            "3  /content/drive/MyDrive/Flowers-Dataset/flowers...
daisy      0\n",
            "4  /content/drive/MyDrive/Flowers-Dataset/flowers...
daisy      0"
        ],
        "text/html": [
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          "  <div class=\"colab-df-container\">\n",
          "    <div>\n",
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          "        .dataframe tbody tr th:only-of-type {\n",
          "          vertical-align: middle;\n",
          "        }\n",
          "      \n",
          "      .dataframe tbody tr th {\n",
          "        vertical-align: top;\n",
          "      }\n",
          "      \n",
          "      .dataframe thead th {\n",
          "        text-align: right;\n",
          "      }\n",

```

```

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"      <th>label</th>\n",
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"  </thead>\n",
"  <tbody>\n",
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Dataset/flowers...</td>\n",
"      <td>daisy</td>\n",
"      <td>0</td>\n",
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"      <td>0</td>\n",
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"      <th>2</th>\n",
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Dataset/flowers...</td>\n",
"      <td>daisy</td>\n",
"      <td>0</td>\n",
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"    <tr>\n",
"      <th>4</th>\n",
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"      <td>daisy</td>\n",
"      <td>0</td>\n",
"    </tr>\n",
"  </tbody>\n",
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interactive table.\"",
"    style=\"display:none;\"",
"  </button>\n",
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height=\"24px\"viewBox=\"0 0 24 24\">

```

```

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.94L8.5 2.5l-.94 2.06-2.06.94zm10 10l1.94 2.06.94-2.06 2.06-.94-2.06-
.94-2.06-.94 2.06-2.06.94z\"/><path d=\"M17.41 7.96l-1.37-1.37c-.4-.4-
.92-.59-1.43-.59-.52 0-1.04.2-1.43.59L10.3 9.45l-7.72 7.72c-.78.78-.78
2.05 0 2.83L4 21.41c.39.39.9.59 1.41.59.51 0 1.02-.2 1.41-.59l7.78-7.78
2.81-2.81c.8-.78.8-2.07 0-2.86zM5.41 20L4 18.59l7.72-7.72 1.47 1.35L5.41
20z\"/>\n",
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"        }\n",
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1px 3px 1px rgba(60, 64, 67, 0.15);\n",
"            fill: #174EA6;\n",
"        }\n",
"    \n",
"        [theme=dark] .colab-df-convert {\n",
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"        [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",
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"        const buttonEl =\n",
"        document.querySelector('#df-9dad837-ab28-443c-
85f1-9b23b5bf4543 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-
9dad837-ab28-443c-85f1-9b23b5bf4543');\n",
        "                    const dataTable =\n",
        "                        await
google.colab.kernel.invokeFunction('convertToInteractive',\n",
        "                                [\n",
        "                                    key, {}]);\n",
        "                    if (!dataTable) return;\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",
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```



```

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        "tulip          984\n",
        "rose           784\n",
        "daisy          764\n",
        "sunflower      733\n",
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]
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i][:quantidade_por_class] for i in CLASS_NAMES])"
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                    "rose      500\n",
                    "dandelion  500\n",
                    "sunflower  500\n",
                    "tulip      500\n",
                    "Name: class_name, dtype: int64"
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            },
            "metadata": {},
            "execution_count": 14
        }
    ]
},
],
},
{

```

```

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    "imgplot = plt.imshow(image)\n",
    "plt.show()"
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        "    return image, label\n",
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