DATA COLLECTION

Deep Learning Fundus Image Analysis for Early Detection of Diabetic Retinopathy

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In our project, we are not going to upload the dataset on colab. We are going to clone the kaggle dataset on colab.

Clone kaggle in google colab.

```
! pip install kaggle
```
```
Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-wheels/public/simple/
Requirement already satisfied: kaggle in /usr/local/lib/python3.7/dist-packages (1.5.12)
Requirement already satisfied: tqdm in /usr/local/lib/python3.7/dist-packages (from kaggle) (4.64.1)
Requirement already satisfied: six>=1.10 in /usr/local/lib/python3.7/dist-packages (from kaggle) (1.15.0)
Requirement already satisfied: urllib3 in /usr/local/lib/python3.7/dist-packages (from kaggle) (1.24.3)
Requirement already satisfied: python-dateutil in /usr/local/lib/python3.7/dist-packages (from kaggle) (2.8.2)
Requirement already satisfied: certifi in /usr/local/lib/python3.7/dist-packages (from kaggle) (2022.9.24)
Requirement already satisfied: requests in /usr/local/lib/python3.7/dist-packages (from kaggle) (2.23.0)
Requirement already satisfied: python-slugify in /usr/local/lib/python3.7/dist-packages (from kaggle) (6.1.2)
Requirement already satisfied: text-unidecode>=1.3 in /usr/local/lib/python3.7/dist-packages (from python-slugify->kaggle) (1.3)
Requirement already satisfied: chardet<4,>=3.0.2 in /usr/local/lib/python3.7/dist-packages (from requests->kaggle) (3.0.4)
Requirement already satisfied: idna<3,>=2.5 in /usr/local/lib/python3.7/dist-packages (from requests->kaggle) (2.10)
```

```
! mkdir ~/.kaggle
```

```
! cp kaggle.json ~/.kaggle/
```

```
! chmod 600 ~/.kaggle/kaggle.json
```

```
! kaggle datasets download -d arbethi/diabetic-retinopathy-level-detection
```

```
! kaggle datasets download -d arbethi/diabetic-retinopathy-level-detection
```
```
Downloading diabetic-retinopathy-level-detection.zip to /content
100% 9.63G/9.66G [01:01<00:00, 188MB/s]
100% 9.66G/9.66G [01:01<00:00, 169MB/s]
```

```
!unzip '/content/diabetic-retinopathy-level-detection.zip'
```
```
Archive:  /content/diabetic-retinopathy-level-detection.zip
  inflating: inception-diabetic.h5
  inflating: preprocessed dataset/preprocessed dataset/testing/0/cfb17a7cc8d4.png
  inflating: preprocessed dataset/preprocessed dataset/testing/0/cfdbaef73a8b.png
  inflating: preprocessed dataset/preprocessed dataset/testing/0/cfed7c1172ec.png
  inflating: preprocessed dataset/preprocessed dataset/testing/0/cff262ed8f4c.png
  inflating: preprocessed dataset/preprocessed dataset/testing/0/cffc50047828.png
  inflating: preprocessed dataset/preprocessed dataset/testing/0/d02b79fc3200.png
  inflating: preprocessed dataset/preprocessed dataset/testing/0/d0926ed2c8e5.png
  inflating: preprocessed dataset/preprocessed dataset/testing/0/d160ebef4117.png
  inflating: preprocessed dataset/preprocessed dataset/testing/0/d16e39b9d6f0.png
  inflating: preprocessed dataset/preprocessed dataset/testing/0/d16e59a2b33a.png
  inflating: preprocessed dataset/preprocessed dataset/testing/0/d18f6431ebce.png
  inflating: preprocessed dataset/preprocessed dataset/testing/0/d1a60c3b9fe5.png
  inflating: preprocessed dataset/preprocessed dataset/testing/0/d1afdb8cf70d.png
  inflating: preprocessed dataset/preprocessed dataset/testing/0/d1b279cc02ae.png
  inflating: preprocessed dataset/preprocessed dataset/testing/0/d1ca85af57c9.png
  inflating: preprocessed dataset/preprocessed dataset/testing/0/d1cf31577a59.png
  inflating: preprocessed dataset/preprocessed dataset/testing/0/d1f7ea924a01.png
  inflating: preprocessed dataset/preprocessed dataset/testing/0/d1fa0f744620.png
```