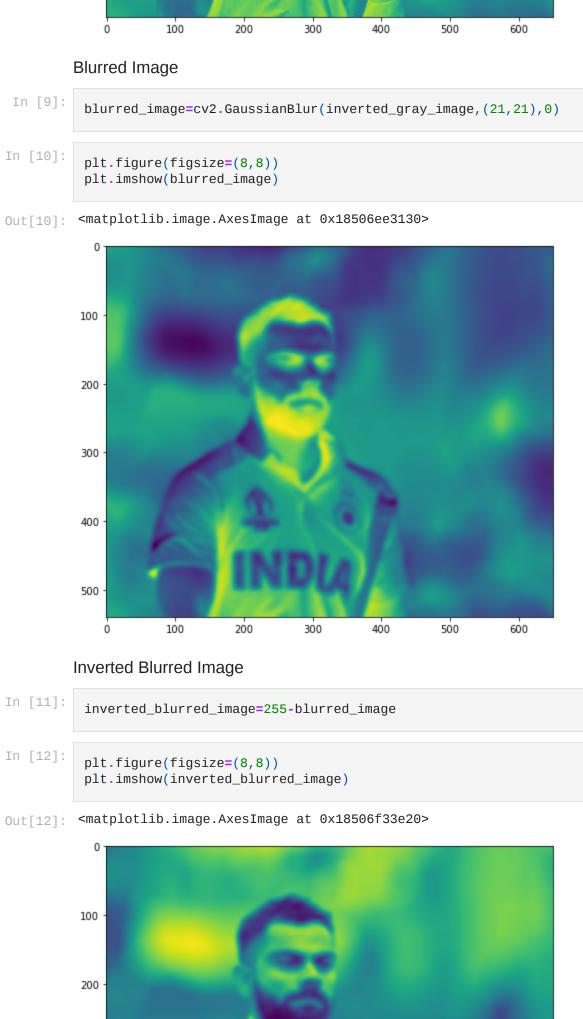
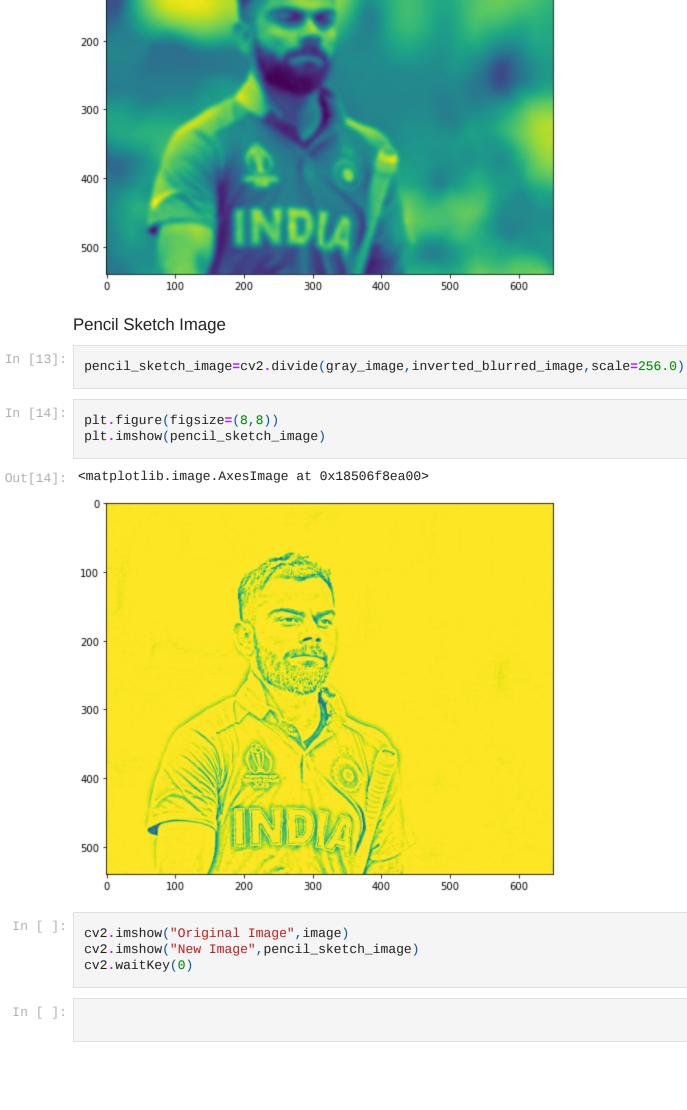
Task 4: Image to Pencil Sketch with Python In [1]: !pip install opencv-python Collecting opency-python Downloading opencv_python-4.5.3.56-cp38-cp38-win_amd64.whl (34.9 MB) Requirement already satisfied: numpy>=1.17.3 in c:\users\smital bhalerao\anaconda3\lib\site-packages (from opencv-python) (1.20.1) Installing collected packages: opencv-python Successfully installed opency-python-4.5.3.56 In [2]: import cv2 import matplotlib.pyplot as plt Original Image image=cv2.imread("C:\\Users\\Smital Bhalerao\\Desktop\\vk.jpg") In [4]: plt.figure(figsize=(8,8)) plt.imshow(image) Out[4]: <matplotlib.image.AxesImage at 0x18506b34340> 100 200 300 400 500 100 200 300 400 500 600 Gray Image In [5]: gray_image=cv2.cvtColor(image,cv2.COLOR_BGR2GRAY) In [6]: plt.figure(figsize=(8,8)) plt.imshow(gray_image) Out[6]: <matplotlib.image.AxesImage at 0x18506e5e1f0> 100 200 300 400 500 100 200 500 600 300 Inverted Gray Image In [7]: ${\tt inverted_gray_image=255-gray_image}$ In [8]: plt.figure(figsize=(8,8)) plt.imshow(inverted_gray_image) Out[8]: <matplotlib.image.AxesImage at 0x18506e854f0> 100 200 300 400 500 500 100 200 300 600 Blurred Image In [9]: blurred_image=cv2.GaussianBlur(inverted_gray_image,(21,21),0) In [10]: plt.figure(figsize=(8,8)) plt.imshow(blurred_image) Out[10]: <matplotlib.image.AxesImage at 0x18506ee3130> 100



Smital Ganesh Bhalerao

Beginner Level Task

Data Science Intern @ LGM Virtual Intrnship 2021 (October)



In [13]:

In [14]:

In []: