Sketch.py

import streamlit as st

st.title("Sketchers")

st.write("Do you want to convert your pictures to realistic pencil sketches?Hurray! You are at the right destination then!")

import cv2

import matplotlib.pyplot as plt

def show\_image(title, img, is\_gray=False):

plt.figure(figsize=(6, 6))

if is\_gray:

plt.imshow(img, cmap='gray')

else:

img = cv2.cvtColor(img, cv2.COLOR\_BGR2RGB)

plt.imshow(img)

plt.title(title)

plt.axis('off')

plt.show()

def dodgeV2(x, y):

return cv2.divide(x, 255 - y, scale=256)

def pencilsketch(inp\_img):

img\_gray = cv2.cvtColor(inp\_img, cv2.COLOR\_BGR2GRAY)

img\_invert = cv2.bitwise\_not(img\_gray)

img\_smoothing = cv2.GaussianBlur(img\_invert, (21, 21), sigmaX=0, sigmaY=0)

final\_img=dodgeV2(img\_gray,img\_smoothing)

show\_image("Final Sketch", final\_img, is\_gray=True)

file\_image=st.sidebar.file\_uploader("Upload your image",type=['jpeg','jpg','png'])

if file\_image is None:

st.write("You haven't uploaded any image yet!")

else:

st.write("\*\*Input Photo\*\*")

st.image(file\_image)

st.write("\*\*Output Photo\*\*")

st.image(file\_image)

import streamlit as st

import cv2

import numpy as np

from PIL import Image

st.title("Sketchers ✏️")

st.write("Do you want to convert your pictures to realistic pencil sketches? Hurray! You are at the right destination then!")

def dodgeV2(x, y):

    return cv2.divide(x, 255 - y, scale=256)

def pencilsketch(inp\_img):

    img\_gray = cv2.cvtColor(inp\_img, cv2.COLOR\_BGR2GRAY)

    img\_invert = cv2.bitwise\_not(img\_gray)

    img\_smoothing = cv2.GaussianBlur(img\_invert, (21, 21), sigmaX=0, sigmaY=0)

    final\_img = dodgeV2(img\_gray, img\_smoothing)

    return final\_img

file\_image = st.sidebar.file\_uploader("Upload your image", type=['jpeg', 'jpg', 'png'])

if file\_image is None:

    st.write("You haven't uploaded any image yet!")

else:

    image = Image.open(file\_image)

    img\_array = np.array(image.convert('RGB'))  # Convert PIL Image to RGB then to NumPy array

    img\_array = cv2.cvtColor(img\_array, cv2.COLOR\_RGB2BGR)  # Convert RGB to BGR for OpenCV

    st.write("\*\*Input Photo\*\*")

    st.image(image, use\_column\_width=True)

    sketch = pencilsketch(img\_array)

    st.write("\*\*Output Sketch\*\*")

    st.image(sketch, use\_column\_width=True, clamp=True)