

README

Image Sketcher

Image Sketcher is a lightweight Python project that transforms regular images into pencil sketch-style portraits using OpenCV. It's a simple demonstration of image processing concepts like grayscale conversion, Gaussian blur, and image division.

Features

- Converts any image into a realistic pencil sketch
- Uses efficient OpenCV operations for fast results
- Displays both the original and sketched images
- Saves the final sketch automatically to your chosen output path

How It Works

1. Grayscale Conversion – removes color to focus on light and shadow.
2. Gaussian Blur – softens details and highlights the main edges.
3. Image Division – divides the grayscale image by the blurred version to emphasize contrast, creating the pencil sketch effect.

Requirements

- Python 3
- OpenCV (opencv-python)

Installation

1. Clone the repository:

```
git clone https://github.com/yourusername/Image-Sketcher.git  
cd Image-Sketcher
```

2. Install the required dependency:

```
pip install opencv-python
```

3. Add your input image (e.g., landscape.jpg) to the project folder.

Usage

Run the script using:

```
python sketcher.py
```

By default, the script reads:

```
input_path = 'landscape.jpg'  
output_path = 'sketch.jpg'
```

You can replace these paths in the file to use your own images.

The program will:

- Display the original image
 - Display the generated sketch
 - Save the result to your output path
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Example Output

Original



Sketched

