



Image Inpainting using GAN

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Abstract

Inpainting, the technique of reconstructing lost or deteriorated parts is an ancient art. It has numerous applications from the restoration of damaged portions to removing an object from the image. The word "Inpaint" means to fill the gap in the image. In the Traditional form of Inpainting, artists used to fill the gap in pixels with pixels that are the same as, or similar to, neighboring pixels. This process was time-consuming and They fail when the image has huge gaps or a significant amount of missing data. In this project, we have used the Deep Learning-based Convolution method for digital inpainting.

Project Outline

- Image Inpainting helps us to recover the lost portion of the old photographs or damaged images
- Users can also remove the unwanted objects from the Image or remove unnecessary persons from the photographs
- User can remove the background to make better use of Image

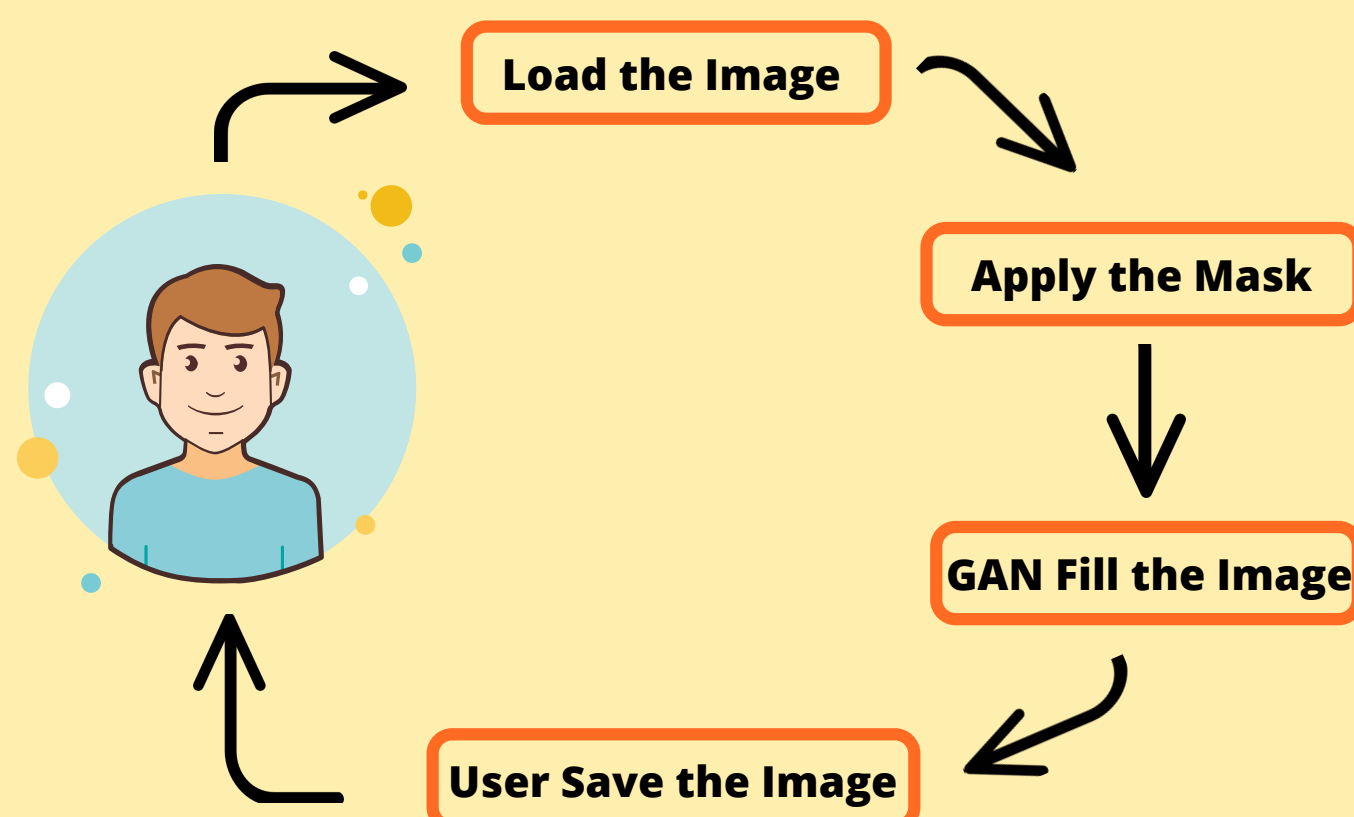
Project Modules

- Image Inpainting
- Background Remover
- Object Remover

Project Applications

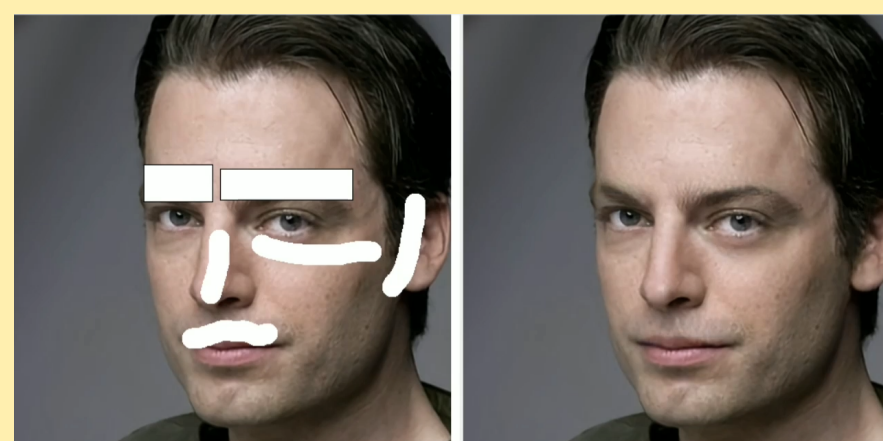
- Restoration of old photographs
- Removal of background
- Removal of object
- Removal of scratches
- Intelligence and Security
- Automatic modifications of images and videos

Project Flow



Results

Image Inpainting



Background Remover



Object Remover



Technologies Used



Project Guides

Asst. Prof. Mahasweta Joshi
Asst. Prof. Pranay Patel

Subject Code: CP442

Subject Name: Project-II
(UDP)

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