



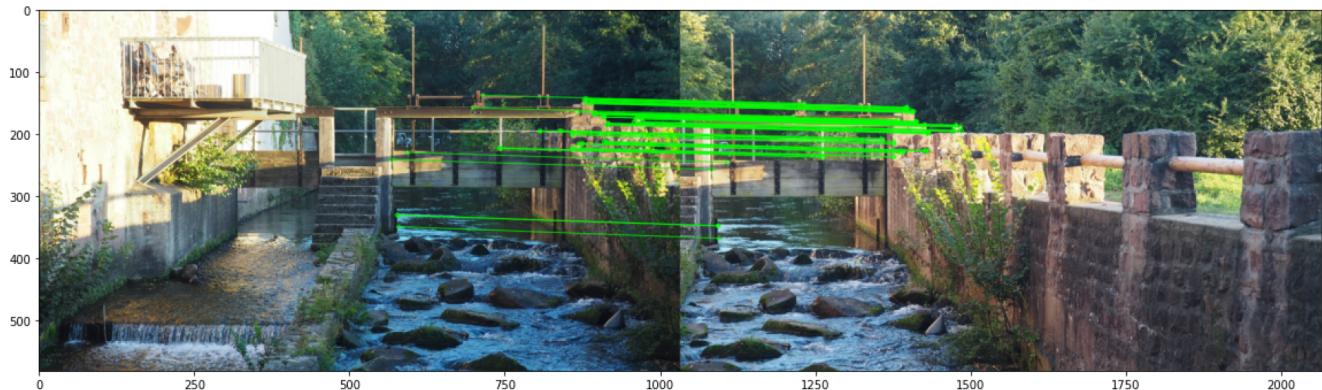
Super Res PhotoMosaic



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INTRODUCTION

This project aims to enhance the images by super resolution and image stitching. It delivers the purpose of creating a mosaic or a collection of photographs which are almost in line to become a single image.



METHODOLOGY

- The pipeline developed consists of converting smaller fragments of images combining into one.
- The pipeline involves multi models for each process and has been fine-tuned for each task. These models are mainly Stable Diffusion and Image Stitcher.
- The Images given by the user are collected as low resolution images which is further converted in high resolution and then stitched together to a photographic mosaic.

RESULTS

The multi-model setup has been tested for various domains. It has been fine-tuned at the upscaling step in order to work effectively for pdf, satellite, panorama and drone images. This serve the purpose to be effective for various purposes for industrial and well as everyday needs.

PROCEDURE

- The image gets generated by following the pipeline when uploading set of similar images consisting of passing a certain threshold.
- The user has to upload few resolution images on which the pipeline performs to build better mosaics.

FUTURE GOALS

We propose this pipeline to work on making more application based products specially for the space and aeronautical industries like satellite and drone images. Making special arrangement for its usage for High Definition Panorama shots for the Photographic industry.

