

Neural Style Transfer



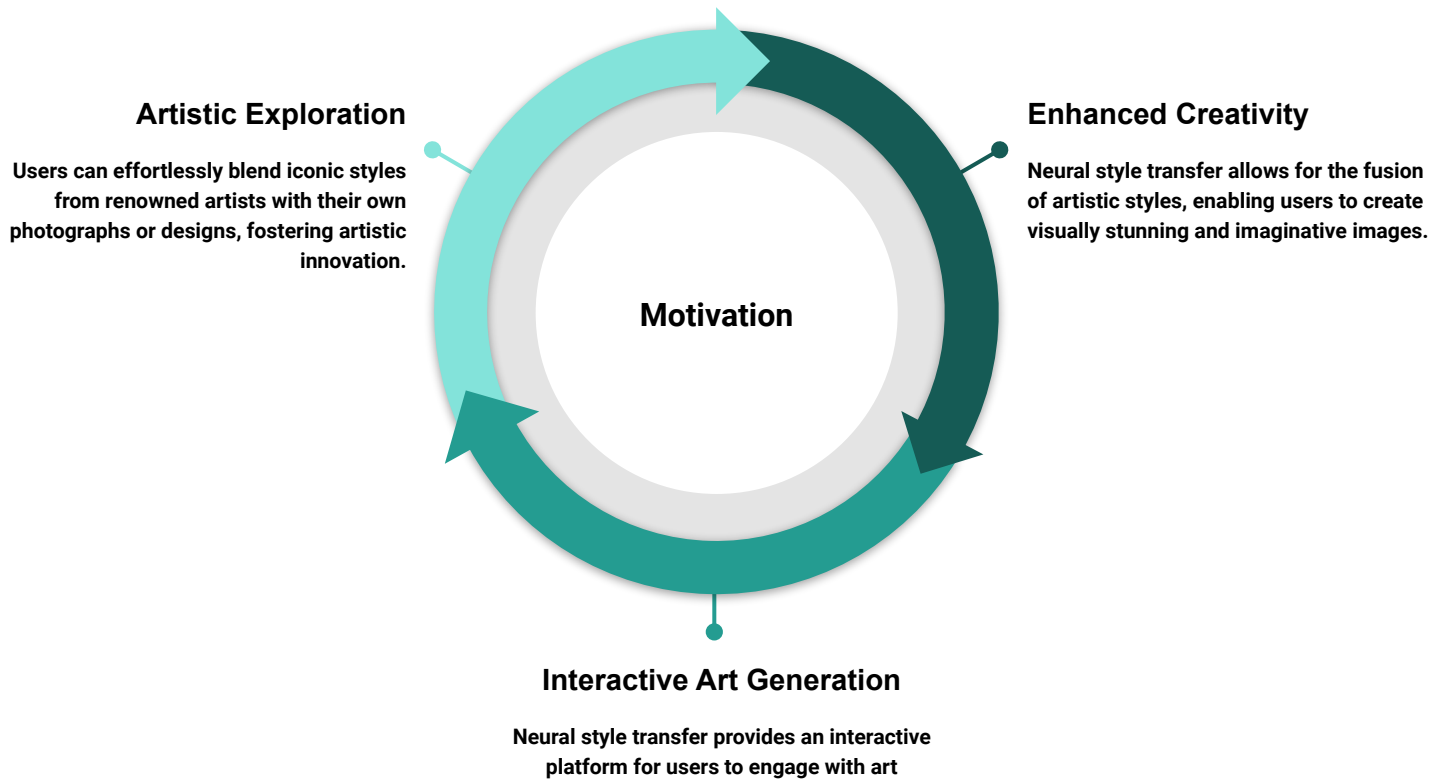
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Motivation





Introduction

- Neural style transfer is a fascinating technique in the realm of artificial intelligence and computer vision that merges the content of one image with the style of another.
- It leverages deep neural networks to extract and combine the content and style features of input images, resulting in visually appealing artistic transformations.



Solution Overview

- Introduces a novel algorithm that utilizes the deep layer representations of CNNs(VGG-19) to define content and style representations.
- Starts with a noise image,iteratively refining it to match the contents of the content image and artistic style of the style image.
- Defines a loss function that has two contents-content loss and style loss.
- The algorithm,in each iteration updates the generated image to minimize the loss.

Result



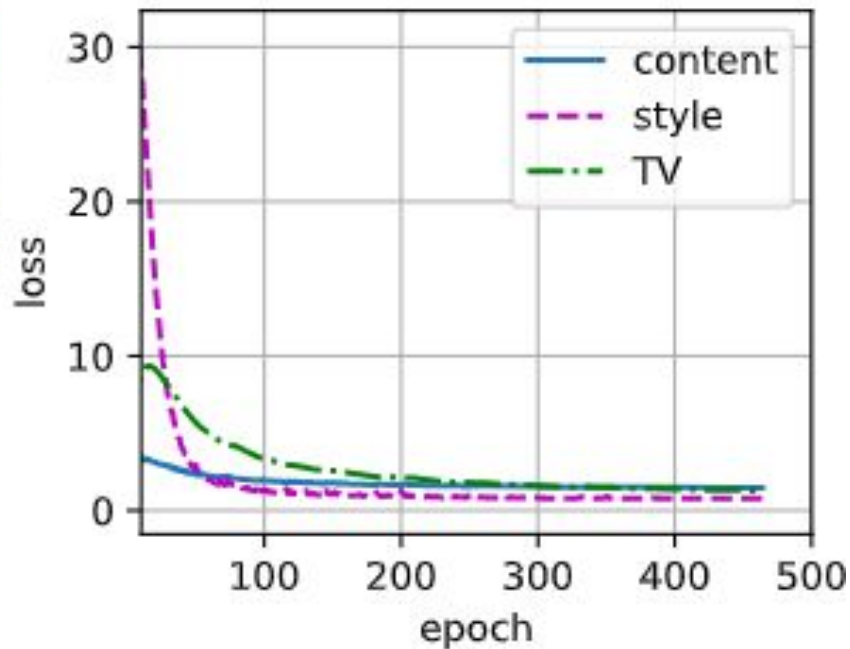
Content



Style



Generated image



Thank You