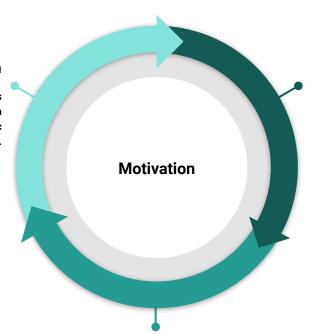
Neural Style Transfer

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Motivation

Artistic Exploration

Users can effortlessly blend iconic styles from renowned artists with their own photographs or designs, fostering artistic innovation.



Enhanced Creativity

Neural style transfer allows for the fusion of artistic styles, enabling users to create visually stunning and imaginative images.

Interactive Art Generation

Neural style transfer provides an interactive platform for users to engage with art

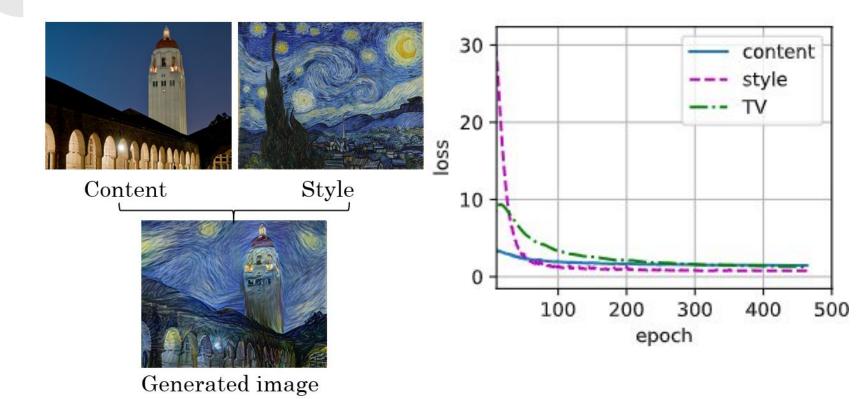
Introduction

- 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



Thank You