

Neural Style Transfer

NeuralArt - Stylize your Image

Avishi, Vaseem Naazleen, Shivangi Tomar

June 2020

Overview

Our project aims to stylize image by implementing A Neural Algorithm of Artistic Style paper by Leon A.Gatys, Alexander S.Ecker and Mathias Bethge.

<https://arxiv.org/pdf/1508.06576.pdf>

What is Neural Style Transfer?

- Neural Style Transfer is a technique used to generate image in the style of another image.
- It takes a content image, a style image, and returns the content image as if it were painted using the artistic style of image.



Key Finding

The representation of content and style in the Convolutional Neural Network are separable.

Modules

- Keras (TensorFlow backend)
- NumPy
- SciPy
- Flutter

Status

- Read the research paper.
- Working on the code implementations.

Learnings and Difficulties

- Learned to work with github conveniently.
- Learned to make presentation using Beamer.
- Studied about CNN.

Difficulties

- The program is taking lot of time to output stylized image.(Working on it)

Thank You :)