

Arbitrary Style Transfer

• • •

Abinash Maharana
Aditya Gupta
Mohsin M. Hafiz
Kartik Agrawal

Contents

- Overview
 - Problems Faced
 - Components
 - Results
 - References
-

Overview

Style transfer is an optimization technique used to take two images—a content image and a style reference image (such as an artwork by a famous painter)—and blend them together so the output image looks like the content image, but “painted” in the style of the style reference image.



- Our paper requires us to encode the content and style images using vgg19 network.
- Then we put a middle AdaIN (Adaptive Instance Normalisation) layer. In this layer we try to change the statistics of content class like mean and variance to that of style images.
- Then we use decoder whose network is opposite of encoder. Now we train our model on COCO dataset and then performed experiments.

Problems Faced

1

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed do eiusmod tempor incididunt ut labore et dolore magna nec. Lorem ipsum dolor sit amet, consectetur adipiscing elit.

2

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed do eiusmod tempor incididunt ut labore et dolore magna nec. Lorem ipsum dolor sit amet, consectetur adipiscing elit.

3

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed do eiusmod tempor incididunt ut labore et dolore magna nec. Lorem ipsum dolor sit amet, consectetur adipiscing elit.

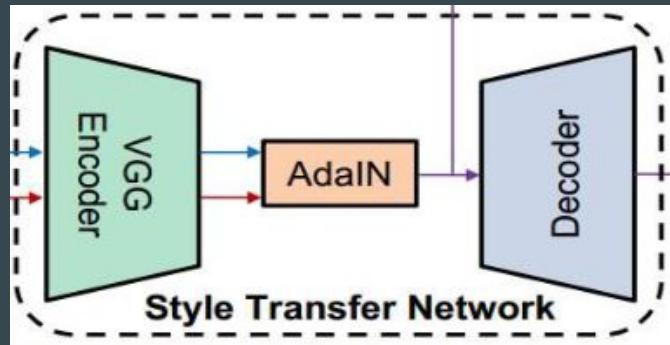
4

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed do eiusmod tempor incididunt ut labore et dolore magna nec. Lorem ipsum dolor sit amet, consectetur adipiscing elit.

Components

Main components of our architecture:

1. Encoder
2. Adaptive Instance Normalization train layer
3. Decoder and other utilities.



Our architecture is then trained on the MS-COCO dataset. After completion, our model would be run to get output to our content and style images.



Project objective

**Lorem ipsum dolor sit amet, consectetur
adipiscing elit, sed do eiusmod tempor
incididunt ut labore et dolore magna
aliqua ipsum dolor sit amet.**

Market trends

02

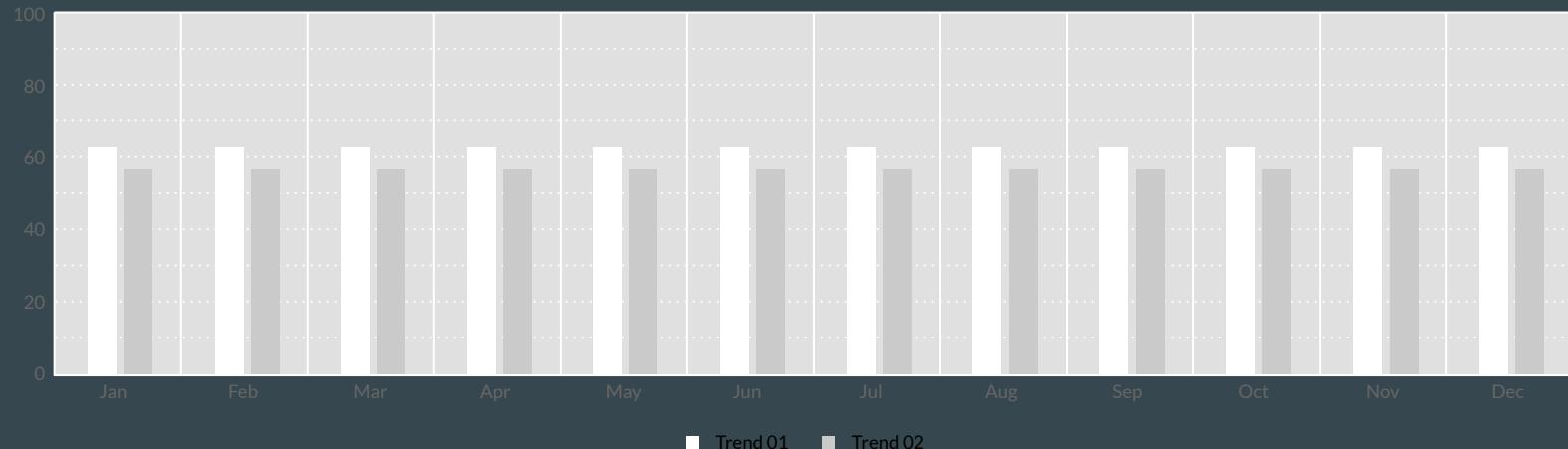
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt labore dolore magna aliqua. Lorem ipsum dolor sit amet, consectetur adipiscing elit.

Client Implications:

Consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Lorem ipsum dolor sit amet, consectetur adipiscing elit tempor incididunt ut labore et dolore magna aliqua.



Trend analysis



Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt labore dolore magna aliqua. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt labore dolore magna aliqua. Lorem ipsum dolor sit amet, consectetur adipiscing elit.



75%

Trend 01

Incidiunt ut labore et dolore sed
do eiusmod tempor incididunt ut
labore et dolore magna aliqua.

53%

Trend 02

Tempor incididunt labore et dolore
sed do eiusmod tempor incididunt
ut labore et dolore magna aliqua.

75%

Trend 01

Incidiunt ut labore et dolore sed
do eiusmod tempor incididunt ut
labore et dolore magna aliqua.

53%

Trend 02

Tempor incididunt labore et dolore
sed do eiusmod tempor incididunt
ut labore et dolore magna aliqua.

75%

Trend 01

Incidiunt ut labore et dolore sed
do eiusmod tempor incididunt ut
labore et dolore magna aliqua.

53%

Trend 02

Tempor incididunt labore et dolore
sed do eiusmod tempor incididunt
ut labore et dolore magna aliqua.

Target audience

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt labore dolore magna aliqua. Lorem ipsum dolor sit amet consectetur adipiscing elit.

- 01 | Consectetur adipiscing elit
- 02 | Sed do eiusmod tempor incididunt ut labore
- 03 | Magna aliqua lorem ipsum dolor sit amet
- 04 | Eiusmod tempor incididunt ut labore et
- 05 | Dolore magna aliqua





Proposed solution

Consectetur adipiscing elit ipsum dolor sit
amet eiusmod tempor, incididunt nec
labore et dolore magna aliqua ipsum dolor
sit amet tempor incididunt .

Process



0
1

Lore ipsum dolor sit

Lore ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor dolor incididunt labore dolore magna aliqua.

Lore ipsum dolor sit

Lore ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor dolor incididunt labore dolore magna aliqua.

0
2



0
3

Lore ipsum dolor sit

Lore ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor dolor incididunt labore dolore magna aliqua.

Deliverables

Consectetur nec labore

45K

*Lorem ipsum dolor sit amet ut
labore et dolore magna*

Adipiscing elit sed

690K

*Tempor incididunt ut labore et
dolore magna aliqua*

Sed eiusmod

100K

*Do eiusmod tempor incididunt
ut labore et dolore magna*

*Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod
tempor incididunt labore dolore magna aliqua. Lorem ipsum dolor sit amet,
consectetur adipiscing elit. Lorem ipsum dolor sit amet, consectetur adipiscing
elit, sed do eiusmod tempor incididunt labore dolore magna aliqua. Lorem
ipsum dolor sit amet, consectetur adipiscing elit.*

Vision

20XX



20XX

20XX

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt labore dolore magna aliqua dolor sit amet, consectetur adipiscing.

20XX



20XX

20XX

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt labore dolore magna aliqua dolor sit amet, consectetur adipiscing.

20XX



20XX

20XX

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt labore dolore magna aliqua dolor sit amet, consectetur adipiscing.

20XX



20XX

20XX

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt labore dolore magna aliqua dolor sit amet, consectetur adipiscing.

20XX



20XX

20XX

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt labore dolore magna aliqua dolor sit amet, consectetur adipiscing.

Team

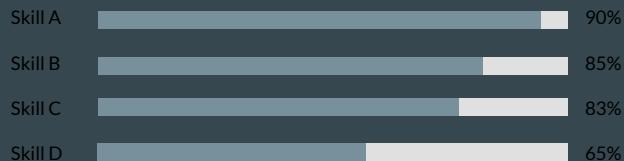
Lore ipsum dolor sit amet,
consectetur adipiscing elit, sed do
eiusmod tempor incididunt labore
dolore magna aliqua. Lore ipsum
dolor sit amet consectetur
adipiscing elit.



CEO

Berry Books

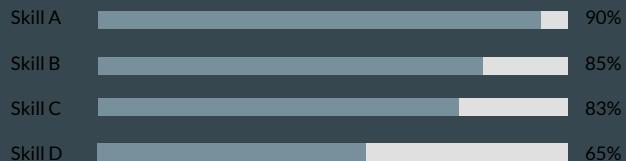
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt labore dolore magna aliqua. Lorem ipsum dolor sit amet, consectetur adipiscing elit.



CFO

Vinny Viewer

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt labore dolore magna aliqua. Lorem ipsum dolor sit amet, consectetur adipiscing elit.



Sales Director

Wendy Writers

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt labore dolore magna aliqua. Lorem ipsum dolor sit amet, consectetur adipiscing elit.





Thank you.

