## DTSA 5511 Introduction to Deep Learning - Mini Project 3

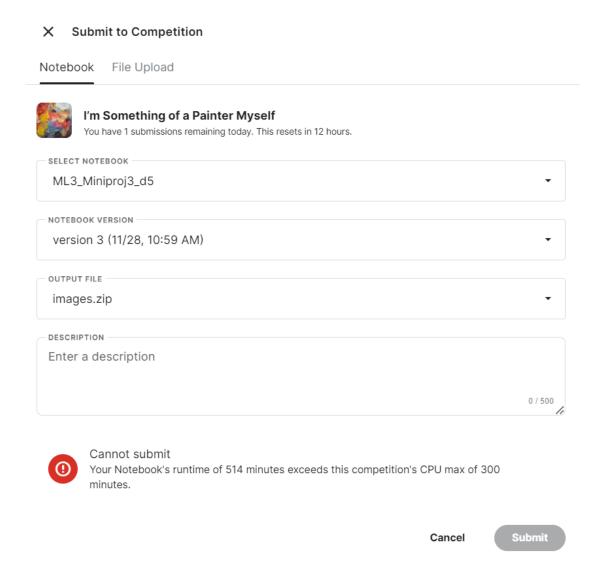
## Tsai-Yun Li, 2023 Dec 4

## **Output Results**

This file serves the purpose of making up for the Kaggle submission problem (reasons mentioned in section 6 of the jupyter notebook for this project).

GitHub Repository Link: https://github.com/TsaiYunLi/ML3\_Miniporj3\_TsaiYunLi

Here is the proof of my notebook running out of the 5-hour limit; however, having completed the task and got the ouput 'images.zip' file ready for submission:



Here is a screenshot of this project's Kaggle notebook running log, also serving as a proof of completing the task:







## ML3\_Miniproj3\_d5

Python · <u>I'm Something of a Painter Myself</u>

Notebook Input Output Logs Comments (0) Settings

Logs & Download Logs

Successfully ran in 30859.5s

Accelerator Environment Output

None Latest Container Image \$\infty\$ 551.37 MB

Time	#	Log Message
8.5s	1	Requirement already satisfied: tensorflow in /opt/conda/lib/python3.10/site-packages (2.13.0)
8.5s	2	Requirement already satisfied: absl-py>=1.0.0 in /opt/conda/lib/python3.10/site-packages (from tensorflow) (1.4.0)
8.5s	3	Requirement already satisfied: astunparse>=1.6.0 in /opt/conda/lib/python3.10/site-packages (from tensorflow) (1.6.3)
8.5s	4	Requirement already satisfied: flatbuffers>=23.1.21 in /opt/conda/lib/python3.10/site-packages (from tensorflow) (23.5.26)
8.5s	5	Requirement already satisfied: gast<=0.4.0,>=0.2.1 in /opt/conda/lib/python3.10/site-packages (from tensorflow) $(0.4.0)$
8.5s	6	Requirement already satisfied: google-pasta>=0.1.1 in /opt/conda/lib/python3.10/site-packages (from tensorflow) (0.2.0)
8.5s	7	Requirement already satisfied: grpcio<2.0,>=1.24.3 in /opt/conda/lib/python3.10/site-packages (from tensorflow) (1.57.0)
8.5s	8	Requirement already satisfied: h5py>=2.9.0 in /opt/conda/lib/python3.10/site-packages (from tensorflow) (3.9.0)
8.5s	9	Requirement already satisfied: keras<2.14,>=2.13.1 in /opt/conda/lib/python3.10/site-packages (from tensorflow) (2.13.1)
8.5s	10	Requirement already satisfied: libclang>=13.0.0 in /opt/conda/lib/python3.10/site-packages (from tensorflow) (16.0.6)
8.5s	11	Requirement already satisfied: numpy<=1.24.3,>=1.22 in /opt/conda/lib/python3.10/site-packages (from tensorflow) (1.24.3)
8.5s	12	Requirement already satisfied: opt-einsum>=2.3.2 in /opt/conda/lib/python3.10/site-packages (from tensorflow) (3.3.0)
8.5s	13	Requirement already satisfied: packaging in /opt/conda/lib/python3.10/site-packages (from tensorflow) (21.3)
8.5s	14	Requirement already satisfied: protobuf!=4.21.0,!=4.21.1,!=4.21.2,!=4.21.3,!=4.21.4,!=4.21.5,<5.0.0dev,>=3.20.3 in /opt/conda/lib/python3.10/site-packages (from tensorflow) (3.20.3)
8.5s	15	Requirement already satisfied: setuptools in /opt/conda/lib/python3.10/site-packages (from tensorflow) (68.1.2)
8.5s	16	Requirement already satisfied: six>=1.12.0 in /opt/conda/lib/python3.10/site-packages (from tensorflow) (1.16.0)
8.5s	17	Requirement already satisfied: tensorboard<2.14,>=2.13 in /opt/conda/lib/python3.10/site-packages (from tensorflow) (2.13.0)
8.5s	18	Requirement already satisfied: tensorflow-estimator<2.14,>=2.13.0 in /opt/conda/lib/python3.10/site-packages (from tensorflow) (2.13.0)
8.5s	19	Requirement already satisfied: termcolor>=1.1.0 in /opt/conda/lib/python3.10/site-packages (from tensorflow) (2.3.0)
8.5s	20	Requirement already satisfied: typing-extensions<4.6.0,>=3.6.6 in /opt/conda/lib/python3.10/site-packages (from tensorflow) $(4.5.0)$
8.5s	21	Requirement already satisfied: wrapt>=1.11.0 in /opt/conda/lib/python3.10/site-packages (from tensorflow) (1.15.0)
8.6s	22	Requirement already satisfied: tensorflow-io-gcs-filesystem>=0.23.1 in /opt/conda/lib/python3.10/site-packages (from tensorflow) (0.34.0)
8.6s	23	Requirement already satisfied: wheel<1.0,>=0.23.0 in /opt/conda/lib/python3.10/site-packages (from astunparse>=1.6.0->tensorflow) (0.41.2)
8.6s	24	Requirement already satisfied: google-auth<3,>=1.6.3 in /opt/conda/lib/python3.10/site-packages (from tensorboard<2.14,>=2.13->tensorflow) (2.22.0)
8.6s	25	Requirement already satisfied: google-auth-oauthlib<1.1,>=0.5 in /opt/conda/lib/python3.10/site-packages (from tensorboard<2.14,>=2.13->tensorflow) (1.0.0)
8.6s	26	Requirement already satisfied: markdown>=2.6.8 in /opt/conda/lib/python3.10/site-packages (from tensorboard<2.14,>=2.13->tensorflow) (3.4.4)
8.6s	27	Requirement already satisfied: requests<3,>=2.21.0 in /opt/conda/lib/python3.10/site-packages (from tensorboard<2.14,>=2.13->tensorflow) (2.31.0)
8.6s	28	Requirement already satisfied: tensorboard-data-server<0.8.0,>=0.7.0 in /opt/conda/lib/python3.10/site-packages (from tensorboard<2.14,>=2.13->tensorflow) $(0.7.1)$
8.6s	29	Requirement already satisfied: werkzeug>=1.0.1 in /opt/conda/lib/python3.10/site-packages (from tensorboard<2.14,>=2.13->tensorflow) $(3.0.1)$
8.7s	30	Requirement already satisfied: pyparsing!=3.0.5,>=2.0.2 in /opt/conda/lib/python3.10/site-packages (from packaging->tensorflow) (3.0.9)

```
auth<3,>=1.6.3->tensorboard<2.14,>=2.13->tensorflow) (4.2.4)
                                         Requirement already satisfied: pyasn1-modules>=0.2.1 in /opt/conda/lib/python3.10/site-packages (from google-
8.7s
                           32
                                         auth<3,>=1.6.3->tensorboard<2.14,>=2.13->tensorflow) (0.2.7)
                                         Requirement \ already \ satisfied: \ rsa<5,>=3.1.4 \ in \ /opt/conda/lib/python3.10/site-packages \ (from \ google-auth<3,>=1.6.3-packages) \ (from \ google-auth) \ (
8.7s
                           33
                                          >tensorboard<2.14,>=2.13->tensorflow) (4.9)
                                         Requirement already \ satisfied: \ urllib3<2.0 \ in \ /opt/conda/lib/python3.10/site-packages \ (from \ google-auth<3.>=1.6.3-packages)
8.7s
                           34
                                         >tensorboard<2.14,>=2.13->tensorflow) (1.26.15)
                                         Requirement already satisfied: requests-oauthlib>=0.7.0 in /opt/conda/lib/python3.10/site-packages (from google-auth-
8.8s
                           35
                                         oauthlib<1.1.>=0.5->tensorboard<2.14.>=2.13->tensorflow) (1.3.1)
                                         Requirement already satisfied: charset-normalizer<4,>=2 in /opt/conda/lib/python3.10/site-packages (from
                           36
8.8s
                                         requests<3, >=2.21.0->tensorboard<2.14, >=2.13->tensorflow) (3.2.0)
                                         Requirement already satisfied: idna<4,>=2.5 in /opt/conda/lib/python3.10/site-packages (from requests<3,>=2.21.0-
                                         >tensorboard<2.14,>=2.13->tensorflow) (3.4)
                                         Requirement already satisfied: certifi>=2017.4.17 in /opt/conda/lib/python3.10/site-packages (from
                                         requests<3,>=2.21.0->tensorboard<2.14,>=2.13->tensorflow) (2023.7.22)
                                         Requirement\ already\ satisfied:\ MarkupSafe>=2.1.1\ in\ /opt/conda/lib/python3.10/site-packages\ (from\ werkzeug>=1.0.1-python3.10/site-packages\ (from\ werkzeug>=1.0.1-python3.10/s
                                         >tensorboard<2.14,>=2.13->tensorflow) (2.1.3)
                                         Requirement already satisfied: pyasn1<0.5.0,>=0.4.6 in /opt/conda/lib/python3.10/site-packages (from pyasn1-modules>=0.2.1->google-auth<3,>=1.6.3->tensorboard<2.14,>=2.13->tensorflow) (0.4.8)
                                         Requirement already satisfied: oauthlib>=3.0.0 in /opt/conda/lib/python3.10/site-packages (from requests-
                            41
                                         oauthlib>=0.7.0-ygoogle-auth-oauthlib<1.1,>=0.5->tensorboard<2.14,>=2.13->tensorflow) (3.2.2)
42.28
                           42
                                         The monet_dataset contains 300 paintings in jpg format.
                                         The photo_dataset contains 7038 photos in jpg format
 42.4s
                             44
                                           6 random Monet paintings from the monet_dataset:
  43.2s
                              45
                                           6 random photos from the photo_dataset:
  64.9s
                             46
                                           monet_dataset shape analysis:
  64.9s
                             47
                                           all images have the same shape: (256, 256, 3)
  64.9s
                             48
                                           photo_dataset shape analysis:
  64.98
                             49
                                           all images have the same shape: (256, 256, 3)
  111.9s
  113.6s
                             51
                                           num_batches_x = 10
  113.6s
                              52
                                           num_batches_y = 220
  115.9s
                             53
                                           Requirement already satisfied: tensorflow-addons in /opt/conda/lib/python3.10/site-packages (0.22.0)
                                           Requirement \ already \ satisfied: \ packaging \ in \ /opt/conda/lib/python3.10/site-packages \ (from \ tensorflow-addons) \ (21.3)
  115.9s
                                           Requirement already satisfied: typequard<3.0.0, >= 2.7 in /opt/conda/lib/python3.10/site-packages (from tensorflow-
  115.9s
                              55
                                           Requirement already satisfied: pyparsing!=3.0.5,>=2.0.2 in /opt/conda/lib/python3.10/site-packages (from packaging-
  115.9s
                             56
                                            >tensorflow-addons) (3.0.9)
  129.0s
                                           /opt/conda/lib/pvthon3.10/site-packages/tensorflow_addons/utils/tfa_eol_msg.pv:23: UserWarning:
  129. As
                             58
  129.0s
                                           TensorFlow Addons (TFA) has ended development and introduction of new features.
  129.0s
                             60
                                           TFA has entered a minimal maintenance and release mode until a planned end of life in May 2024.
                                           Please modify downstream libraries to take dependencies from other repositories in our TensorFlow community (e.g. \frac{1}{2})
  129.0s
                                           Keras, Keras-CV, and Keras-NLP).
  129.0s
                             62
129.0s
                                       For more information see: https://github.com/tensorflow/addons/issues/2807
                          63
129 As
                          64
                          65
129 As
                                              warnings.warn(
136.3s
                                         Requirement already satisfied: tqdm in /opt/conda/lib/python3.10/site-packages (4.66.1)
                          66
                                                                                                  | 0/220 [00:00<?, ?batch/s]Epoch 1/1: 0%|
                                                                                                                                                                                                                                      | 1/220 [03:12<11:41:44,
                                        | 9/226 [06:0047, 70atcn/s]epoch 1/1: 0%| | 1/226 [06:12411:41:44, | 192.26s/batch]Epoch 1/1: 1%| | 2/220 [05:2149:23:33, 155.11s/batch] | Epoch 1/1: 1%| | 3/220 [07:31+8:39:47, 143.72s/batch]Epoch 1/1: 2%| | 4/220 [09:40+8:16:12, 137.84s/batch]Epoch 1/1: 2%| | 5/220 [11:48+8:01:27, 134.36s/batch]Epoch 1/1: 3%| | 6/220 [13:59+7:54:50, 133.13s/batch]Epoch 1/1: 3%| | 7/220 [16:09+7:49:19, 132.21s/batch]Epoch 1/1: 4%| | 8/220 [18:18+7:43:29, 133.13s/batch]Epoch 1/1: 4%| | 18/220 [18:18+7:43:29, 133.13s/batch]Epoch 1/1: 4%| | 18/220
                                        | 131.18s/batch|Epoch 1/1: 4%| | 9/220 [20:28<7:40:27, 130.93$/sbtch|Epoch 1/1: 5%| | 10/220 [22:23<7:20:55, 125.98s/batch]Epoch 1/1: 5%| | 11/220 [24:34<7:24:61, 127.47s/batch]Epoch 1/1: 5%| | 12/220 [26:46<7:25:56, 128.64s/batch]Epoch 1/1: 6%| | 13/220 [28:54<7:24:04, 128.72s/batch]Epoch 1/1: 6%| | 15/220 [33:13<7:20:30,
                                        | 43/220 [1:31:32<6:08:23, 124.88s/batch]Epoch 1/1: 20%|
                                                                                                                                                                                                                                    | 44/220 [1:33:41<6:10:25,
```

 $Requirement \ already \ satisfied: \ cachetools < 6.0, >= 2.0.0 \ in \ /opt/conda/lib/python 3.10/site-packages \ (from \ google-packages) \ (from \ googl$ 

8.7s

31

```
103/220 [3:42:01<4:03:07, 124.68s/batch]Epoch 1/1: 47%
     | 185.76s/batch|Epoch 1/1: 48%||| | 185/220 [3:46:1844:02:34, 126.56s/batch|Epoch 1/1: 48%||| | 186/220 [3:48:2544:01:12, 126.95s/batch|Epoch 1/1: 49%|| | 187/220 [3:51:0044:14:32, 135.15s/batch|Epoch 1/1: 49%|| | 187/220 [3:51:0044:14:32, 135.15s/batch|Epoch 1/1: 49%|| | 187/220 [3:51:0044:14:32]
1/1: 49% | 188/220 [3:53:88-4:98:40, 133.22s/batch]Epoch 1/1: 50% | 199/220 [3:55:22-4:96:53, 133.45s/batch]Epoch 1/1: 50% | 110/220 [3:55:56-3:39:17, 119.62s/batch]Epoch 1/1: 50% | 111/220 [3:55:94-3:45:14, 123.99s/batch]Epoch 1/1: 51% | 112/220 [4:03:56-3:59:965, 134.07s/batch]Epoch 1/1: 52% | 114/220 [4:08:69-93:55:04, 133.63s/batch]Epoch 1/1: 52% | 115/220 [4:08:21-3:53:09, 133.23s/batch]Epoch 1/1: 53% | 116/220 [4:16:58-4:03:25, 140.43s/batch]Epoch 1/1: 53% | 117/220 [4:13:12-3:57:41, 138.46s/batch]Epoch 1/1: 55% | 118/220 [4:15:26-3:53:02, 137.08s/batch]Epoch 1/1: 55% | 119/220 [4:17:38-3:48:09, 135.54s/batch]Epoch 1/1: 55% | 120/220 [4:19:13-3:25:29, 123.30s/batch]Epoch 1/1: 55% | 120/220 [4:21:26-3:28:16, 126.23s/batch]Epoch 1/1: 55% | 120/220 [4:23:29-3:26:08, 131.58s/batch]Epoch 1/1: 58% | 120/220 [4:34:42-3:24:36, 132.00s/batch]Epoch 1/1: 57% | 120/220 [4:32:29-3:26:08, 131.58s/batch]Epoch 1/1: 58% | 120/220 [4:34:42-3:24:36, 132.00s/batch]Epoch 1/1: 58% | 120/220 [4:34:34-3-3:29:24, 130.27s/batch]Epoch 1/1: 59% | 129/220 [4:34:42-3:24:36, 132.00s/batch]Epoch 1/1: 58% | 120/220 [4:42:48-3:02:32, 123.00s/batch]Epoch 1/1: 59% | 129/220 [4:43:39-6-3:20:12, 130.20s/batch]Epoch 1/1: 59% | 129/220 [4:45:08-3:02:39, 135.91s/batch]Epoch 1/1: 59% | 129/220 [4:45:08-3:02:39, 125.91s/batch]Epoch 1/1: 59% | 129/220 [4:45:08-3:02:39, 125.91s/batch]Epoch 1/1: 50% | 129/220 [4:45:08-3:02:39, 125.9
 1/1: 58% | 128/228 [4:36:55-3:22:48, 132.17s/batch]Epoch 1/1: 59% | 129/228 [4:39:06<3:20:12, 132.08s/batch]Epoch 1/1: 59% | 130/228 [4:46:36<2:58:48, 119.21s/batch]Epoch 1/1: 60% | 131/228 [4:42:48<3:82:32, 123.06s/batch]Epoch 1/1: 60% | 133/228 [4:47:10-60%] | 133/228 [4:47:10-60%] | 134/228 [4:47:10-60%] | 134/228 [4:47:11-3:94:40, 127.36s/batch]Epoch 1/1: 61% | 134/228 [4:49:22-3:04:03, 128.41s/batch]Epoch 1/1: 61% | 135/228 [4:51:36<3:04:27, 138.21s/batch]Epoch 1/1: 62% | 138/228 [4:55:48<3:02:57, 138.69s/batch]Epoch 1/1: 62% | 137/228 [4:55:36-3:04:27, 138.21s/batch]Epoch 1/1: 63% | 139/228 [5:06:22-2:57:03, 131.16s/batch]Epoch 1/1: 64% | 139/228 [5:06:22-2:57:03, 131.16s/batch]Epoch 1/1: 64% | 140/228 [5:06:35-22:38:14, 118.68s/batch]Epoch 1/1: 64% | 140/228 [5:06:35-22:48:26, 129.57s/batch]Epoch 1/1: 65% | 143/228 [5:06:35-22:48:26, 129.57s/batch]Epoch 1/1: 65% | 143/228 [5:06:35-22:48:26, 129.57s/batch]Epoch 1/1: 65% | 144/228 [5:06:35-22:48:26, 129.57s/batch]Epoch 1/1: 65% | 145/228 [5:06:35-22:48:26, 129.57s/batch]Epoch 1/1: 65% | 14
                                                                                                                                                           | 148/220 [5:20:16<2:43:21, 136.14s/batch]Epoch 1/1: 68%| | 149/220 [5:22:26<2:38:58,
       | 148/220 [5:20:16<2:43:21, 136.14s/batch]Epoch 1/1: 68%| | 149/220 [5:22:26<2:38:58, 134.35s/batch]Epoch 1/1: 68%| | 159/220 [5:23:54<2:20:39, 120.56s/batch]Epoch 1/1: 69%| | 159/220 [5:26:42*21:52, 123.38s/batch]Epoch 1/1: 69%| | 152/220 [5:26:47*2:22:59, 126.69s/batch]Epoch 1/1: 70%| | 153/220 [5:30:45<2:28:17, 132.80s/batch]Epoch 1/1: 70%| | 154/220 [5:32:57<2:25:46, 132.53s/batch]Epoch 1/1: 70%| | 155/220 [5:35:67<2:22:48, 131.82s/batch]Epoch 1/1: 71%| | 155/220 [5:37:17<2:19:58, 131.22s/batch]Epoch 1/1: 71%| | 155/220 [5:37:17<2:19:58, 131.22s/batch]Epoch 1/1: 73%| | 169/220 [5:41:37<2:15:91, 139.68s/batch]Epoch 1/1: 72%| | 159/220 [5:41:37<2:15:91, 139.68s/batch]Epoch 1/1: 72%| | 169/220 [5:41:37<2:17:29, 139.32s/batch]Epoch 1/1: 73%| | 169/220 [5:47:35<2:08:55, 120.92s/batch]Epoch 1/1: 73%| | 169/220 [5:47:35<2:08:55] | 169/220 [5:47:35<2:08:55] | 169/220 [5:47:35<2:08:55] | 169/220 [5:47:35<2:08:55] | 169/220 [5:47:35<2:08:55] | 169/220 [5:47:35<2:08:55] | 169/220 [5:47:35<2:08:55] | 169/220 [5:47:35<2:08:55] | 169/220 [5:47:35<2:08:55] | 169/220 [5:47:35<2:08:55] | 169/220 [5:47:35<2:08:55] | 169/220 [5:47:35<2:08:55] | 169/220 [5:47:35<2:08:55] | 169/220 [5:47:35<2:08:55] | 169/220 [5:47:35<2:08:55] | 169/220 [5:47:35<2:08:55] | 169/220 [5:47:35<2:08:55] | 169/220 [5:47:35<2:08:55] | 169/220 [5:47:35<2:08:55] | 169/220 [5:47:35<2:08:55] | 169/220 [5:47:35<2:08:55] | 169/220 [5:47:35<2:08:55] | 169/220 [5:47:35<2:08:55] | 169/220 [5:47:35<2:08:55] | 169/220 [5:47:35<2:08:55] | 169/220 [5:47:35<2:08:55] | 169/220 [5:47:35<2:08:55] | 169/220 [5:47:35<2:08:55] | 169/220 [5:47:35<2:08:55] | 169/220 [5:47:35<2:08:55] | 169/220 [5:47:35<2:08:55] | 169/220 [5:47:35<2
           | 161/220 [5:47:35<2:01:22, 123.44s/batch]Epoch 1/1: 74%| | 162/220 [5:49:45<2:01:20, 125.53s/batch]Epoch 1/1: 74%| | 163/220 [5:51:55<2:00:15, 126.59s/batch]Epoch 1/1: 75%| | 164/220 [5:55:55<2:00:15, 126.59s/batch]Epoch 1/1: 75%| | 164/220 [5:55:25:00:15, 126.59s/batch]Epoch 1/1: 75%| | 164/220 [5:55:25:25:25:25:25] | 165/220 [5:56:13<1:57:19, 127.98s/batch]Epoch 1/1: 75%| | 166/220 [5:58:23<1:55:40, 128.53s/batch]Epoch 1/1: 76%| | 166/220 [5:58:23<1:55:40, 128.53s/batch]Epoch 1/1: 76%|
       [5:58:23<1:55:40, 128.53s/batch]Epoch 1/1: 76%| | 167/220 [6:00:33-1:54:01, 129.08s/batch]Epoch 1/1: 76%| | 168/220 [6:02:42<1:51:50, 129.05s/batch]Epoch 1/1: 77%| | 169/220 [6:04:53-1:50:09, 129.06s/batch]Epoch 1/1: 77%| | 170/220 [6:06:21-1:37:27, 116.94s/batch]Epoch 1/1: 78%| | 170/220 [6:06:21-1:37:27, 116.94s/batch]Epoch 1/1: 78%| | 170/220 [6:08:30-1:38:39, 120.80s/batch]Epoch 1/1: 78%| | 170/220 [6:08:30-1:38:39, 120.80s/batch]Epoch 1/1: 79%| | 170/220 [6:08:30-1:38:41, 123.37s/batch]Epoch 1/1: 79%| | 170/220 [6:10:40-1:38:41, 123.37s/batch]Epoch 1/1: 79%| | 170/220 [6:10:40-1:38:41, 123.37s/batch]Epoch 1/1: 80%| | 170/220 [6:17:08-1:35:29, 127.33s/batch]Epoch 1/1: 80%| | 170/220 [6:14:59-1:37:01, 120.05]| | 170/220 [6:10:127-1:32:05, 128.49s/batch]Epoch 1/1: 81%| | 170/220 [6:21:27-1:32:05, 128.49s/batch]Epoch 1/1: 81%| | 170/220 [6:25:49-1:28:38, 129.73s/batch]Epoch 1/1: 82%| | 180/220 [6:27:17-1:18:08, 117.21s/batch]Epoch 1/1: 82%| | 180/220 [6:27:17-1:18:08]| | 170/220 [6:27:17-1:18:08]| | 170/220 [6:27:17-1:18:08]| | 170/220 [6:27:17-1:18:08]| | 170/220 [6:27:17-1:18:08]| | 170/220 [6:27:17-1:18:08]| | 170/220 [6:27:17-1:18:08]| | 170/220 [6:27:17-1:18:08]| | 170/220 [6:27:17-1:18:08]| | 170/220 [6:27:17-1:18:08]| | 170/220 [6:27:17-1:18:08]| | 170/220 [6:27:17-1:18:08]| | 170/220 [6:27:17-1:18:08]| | 170/220 [6:27:17-1:18:08]| | 170/220 [6:27:17-1:18:08]| | 170/220 [6:27:17-1:18:08]| | 170/220 [6:27:17-1:18:08]| | 170/220 [6:27:17-1:18:08]| | 170/220 [6:27:17-1:18:08]| | 170/220 [6:27:1
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| 283/226 [7:16:11
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| 284/226 [7:18:44<86:87] | 284/226 [7:18:44<86:87] | 284/226 [7:18:44<86:87] | 284/226 [7:26:13</p>
| 35.46s/batch]Epoch 1/1: 94%| | 284/226 [7:26:32
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                                           139.52s/batch|Epoch 1/1: 95%| | 219/220 [7:33:37<29:41, 124.18s/batch|Epoch 1/1: 96%| | 211/220 [7:33:47<29:41, 124.18s/batch|Epoch 1/1: 96%| | 211/220 [7:33:47<29:41, 124.18s/batch|Epoch 1/1: 97%| | 211/220 [7:33:48-64]
| 213/220 [7:38:86<14:53, 127.67s/batch|Epoch 1/1: 97%| | 214/220 [7:40:15<12:50, 128.35s/batch|Epoch 1/1: 98%| | 215/220 [7:42:26<18:44, 128.95s/batch|Epoch 1/1: 98%| | 215/220 [7:42:26<18:44, 128.95s/batch|Epoch 1/1: 98%| | 215/220 [7:42:26<18:44, 128.95s/batch|Epoch 1/1: 98%| | 215/220 [7:48:54<184] | 215/220 [7:48:54<184] | 215/220 [7:48:54<184] | 215/220 [7:48:54<184] | 215/220 [7:48:54<184] | 215/220 [7:48:54<184] | 215/220 [7:48:54<184] | 215/220 [7:48:54<184] | 215/220 [7:48:54<184] | 215/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220 [7:51:02<185] | 225/220
                                           [7:52:57<00:00, 128.99s/batch]
                                           /opt/conda/lib/python3.10/site-packages/keras/src/engine/training.py:3000: UserWarning: You are saving your model as
                                           an HDF5 file via `model.save()`. This file format is considered legacy. We recommend using instead the native Keras format, e.g. `model.save('my_model.keras')`.
28526.8s 68
28526.8s 69
                                              saving_api.save_model(
28526.8s
                          70 Epoch 1/1 completed in 28377.32 sec
28527.0s
                          71
                                          Final models saved at epoch 1
30848.0s
                                           Created zip file with monetified images at /kaggle/working/images.zip
                                           /opt/conda/lib/python3.10/site-packages/traitlets/traitlets.py:2930: FutureWarning: --Exporter.preprocessors=
                                           ["remove_papermill_header.RemovePapermillHeader"] for containers is deprecated in traitlets 5.0. You can pass `--
Exporter.preprocessors item` ... multiple times to add items to a list.
30854.7s 73
30854.7s
30854.7s 75
                                          [NbConvertApp] WARNING | Config option `kernel spec manager class` not recognized by `NbConvertApp`.
30854.8s 76
                                          [NbConvertApp] Converting notebook __notebook__.ipynb to notebook
30855.4s
                                           [NbConvertApp] Writing 595320 bytes to __notebook__.ipynb
                                           /opt/conda/lib/python3.10/site-packages/traitlets/traitlets.py:2930: FutureWarning: --Exporter.preprocessors=
30857.7s 78
                                              ["nbconvert.preprocessors.ExtractOutputPreprocessor"] for containers is deprecated in traitlets 5.0. You can pass `--
                                           Exporter preprocessors item \check{\ } ... multiple times to add items to a list.
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                          80 [NbConvertApp] WARNING | Config option `kernel_spec_manager_class` not recognized by `NbConvertApp`.
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                                           [{\tt NbConvertApp}] \ {\tt Converting \ notebook} \ \_{\tt notebook}\_.{\tt ipynb} \ {\tt to} \ {\tt html}
30857.7s 81
30859.2s
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                                          [NbConvertApp] Support files will be in __results___files/
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                            83
                                           [NbConvertApp] Making directory __results___files
30859.2s 84 [NbConvertApp] Making directory __results___files
30859.2s 85 [NbConvertApp] Making directory __results___files
30859.2s
                          86 [NbConvertApp] Making directory __results___files
```

[NbConvertApp] Writing 417595 bytes to \_\_results\_\_.html

30859.2s 87

Here is a screenshot of all the 31 'monetified' images in JPEG format in the 'images.zip' file, as a visual evaluation of the results of this project:



You can click on the GitHub file 'images.zip' to download this exact zipped file if you want to check out the 'monetified' images in detail.

Hope this can make up for the Kaggle submission problem.

Please let me know if there is a way to speed up the training loop without modifying my CycleGAN architecture and reducing the number of photos to be 'monetified' in the dataset. Thank you!