tu012@b024:/datasets/work/d61-mission-wp2/work/David/dreamwalk> module load tensorflow/2.2.0-py37-gcc5-gpu

tu012@b024:/datasets/work/d61-mission-wp2/work/David/dreamwalk> python3 train3.py

2020-08-19 00:05:01.143155: I tensorflow/stream\_executor/platform/default/dso\_loader.cc:44] Successfully opened dynamic library libcudart.so.9.0

TF version: 2.2.0

Hub version: 0.8.0

WARNING: Logging before flag parsing goes to stderr.

W0819 00:05:05.341051 46912496467904 deprecation.py:323] From train3.py:12: is\_gpu\_available (from tensorflow.python.framework.test\_util) is deprecated and will be removed in a future version.

Instructions for updating:

Use `tf.config.list\_physical\_devices('GPU')` instead.

2020-08-19 00:05:05.343612: I tensorflow/stream\_executor/platform/default/dso\_loader.cc:44] Successfully opened dynamic library libcuda.so.1

2020-08-19 00:05:07.214961: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1561] Found device 0 with properties:

pciBusID: 0000:04:00.0 name: Tesla P100-SXM2-16GB computeCapability: 6.0

coreClock: 1.4805GHz coreCount: 56 deviceMemorySize: 15.90GiB deviceMemoryBandwidth: 681.88GiB/s

2020-08-19 00:05:07.216130: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1561] Found device 1 with properties:

pciBusID: 0000:06:00.0 name: Tesla P100-SXM2-16GB computeCapability: 6.0

coreClock: 1.4805GHz coreCount: 56 deviceMemorySize: 15.90GiB deviceMemoryBandwidth: 681.88GiB/s

2020-08-19 00:05:07.217247: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1561] Found device 2 with properties:

pciBusID: 0000:07:00.0 name: Tesla P100-SXM2-16GB computeCapability: 6.0

coreClock: 1.4805GHz coreCount: 56 deviceMemorySize: 15.90GiB deviceMemoryBandwidth: 681.88GiB/s

2020-08-19 00:05:07.218342: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1561] Found device 3 with properties:

pciBusID: 0000:08:00.0 name: Tesla P100-SXM2-16GB computeCapability: 6.0

coreClock: 1.4805GHz coreCount: 56 deviceMemorySize: 15.90GiB deviceMemoryBandwidth: 681.88GiB/s

2020-08-19 00:05:07.218430: I tensorflow/stream\_executor/platform/default/dso\_loader.cc:44] Successfully opened dynamic library libcudart.so.9.0

2020-08-19 00:05:07.220096: I tensorflow/stream\_executor/platform/default/dso\_loader.cc:44] Successfully opened dynamic library libcublas.so.9.0

2020-08-19 00:05:07.221709: I tensorflow/stream\_executor/platform/default/dso\_loader.cc:44] Successfully opened dynamic library libcufft.so.9.0

2020-08-19 00:05:07.222359: I tensorflow/stream\_executor/platform/default/dso\_loader.cc:44] Successfully opened dynamic library libcurand.so.9.0

2020-08-19 00:05:07.223789: I tensorflow/stream\_executor/platform/default/dso\_loader.cc:44] Successfully opened dynamic library libcusolver.so.9.0

2020-08-19 00:05:07.225386: I tensorflow/stream\_executor/platform/default/dso\_loader.cc:44] Successfully opened dynamic library libcusparse.so.9.0

2020-08-19 00:05:07.229245: I tensorflow/stream\_executor/platform/default/dso\_loader.cc:44] Successfully opened dynamic library libcudnn.so.7

2020-08-19 00:05:07.237793: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1703] Adding visible gpu devices: 0, 1, 2, 3

2020-08-19 00:05:07.237964: I tensorflow/stream\_executor/platform/default/dso\_loader.cc:44] Successfully opened dynamic library libcudart.so.9.0

2020-08-19 00:05:08.920723: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1102] Device interconnect StreamExecutor with strength 1 edge matrix:

2020-08-19 00:05:08.920792: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1108] 0 1 2 3

2020-08-19 00:05:08.920800: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1121] 0: N Y Y Y

2020-08-19 00:05:08.920806: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1121] 1: Y N Y Y

2020-08-19 00:05:08.920811: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1121] 2: Y Y N Y

2020-08-19 00:05:08.920844: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1121] 3: Y Y Y N

2020-08-19 00:05:08.927960: W tensorflow/core/common\_runtime/gpu/gpu\_bfc\_allocator.cc:39] Overriding allow\_growth setting because the TF\_FORCE\_GPU\_ALLOW\_GROWTH environment variable is set. Original config value was 0.

2020-08-19 00:05:08.928130: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1247] Created TensorFlow device (/device:GPU:0 with 14969 MB memory) -> physical GPU (device: 0, name: Tesla P100-SXM2-16GB, pci bus id: 0000:04:00.0, compute capability: 6.0)

2020-08-19 00:05:08.930655: W tensorflow/core/common\_runtime/gpu/gpu\_bfc\_allocator.cc:39] Overriding allow\_growth setting because the TF\_FORCE\_GPU\_ALLOW\_GROWTH environment variable is set. Original config value was 0.

2020-08-19 00:05:08.930743: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1247] Created TensorFlow device (/device:GPU:1 with 14969 MB memory) -> physical GPU (device: 1, name: Tesla P100-SXM2-16GB, pci bus id: 0000:06:00.0, compute capability: 6.0)

2020-08-19 00:05:08.933192: W tensorflow/core/common\_runtime/gpu/gpu\_bfc\_allocator.cc:39] Overriding allow\_growth setting because the TF\_FORCE\_GPU\_ALLOW\_GROWTH environment variable is set. Original config value was 0.

2020-08-19 00:05:08.933295: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1247] Created TensorFlow device (/device:GPU:2 with 14969 MB memory) -> physical GPU (device: 2, name: Tesla P100-SXM2-16GB, pci bus id: 0000:07:00.0, compute capability: 6.0)

2020-08-19 00:05:08.935718: W tensorflow/core/common\_runtime/gpu/gpu\_bfc\_allocator.cc:39] Overriding allow\_growth setting because the TF\_FORCE\_GPU\_ALLOW\_GROWTH environment variable is set. Original config value was 0.

2020-08-19 00:05:08.935807: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1247] Created TensorFlow device (/device:GPU:3 with 14969 MB memory) -> physical GPU (device: 3, name: Tesla P100-SXM2-16GB, pci bus id: 0000:08:00.0, compute capability: 6.0)

GPU is available

Using https://tfhub.dev/google/imagenet/mobilenet\_v2\_140\_224/feature\_vector/4 with input size (224, 224)

Found 62384 images belonging to 250 classes.

Found 15479 images belonging to 250 classes.

Building model with https://tfhub.dev/google/imagenet/mobilenet\_v2\_140\_224/feature\_vector/4

2020-08-19 00:05:12.165505: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1561] Found device 0 with properties:

pciBusID: 0000:04:00.0 name: Tesla P100-SXM2-16GB computeCapability: 6.0

coreClock: 1.4805GHz coreCount: 56 deviceMemorySize: 15.90GiB deviceMemoryBandwidth: 681.88GiB/s

2020-08-19 00:05:12.166688: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1561] Found device 1 with properties:

pciBusID: 0000:06:00.0 name: Tesla P100-SXM2-16GB computeCapability: 6.0

coreClock: 1.4805GHz coreCount: 56 deviceMemorySize: 15.90GiB deviceMemoryBandwidth: 681.88GiB/s

2020-08-19 00:05:12.167781: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1561] Found device 2 with properties:

pciBusID: 0000:07:00.0 name: Tesla P100-SXM2-16GB computeCapability: 6.0

coreClock: 1.4805GHz coreCount: 56 deviceMemorySize: 15.90GiB deviceMemoryBandwidth: 681.88GiB/s

2020-08-19 00:05:12.168874: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1561] Found device 3 with properties:

pciBusID: 0000:08:00.0 name: Tesla P100-SXM2-16GB computeCapability: 6.0

coreClock: 1.4805GHz coreCount: 56 deviceMemorySize: 15.90GiB deviceMemoryBandwidth: 681.88GiB/s

2020-08-19 00:05:12.168992: I tensorflow/stream\_executor/platform/default/dso\_loader.cc:44] Successfully opened dynamic library libcudart.so.9.0

2020-08-19 00:05:12.169069: I tensorflow/stream\_executor/platform/default/dso\_loader.cc:44] Successfully opened dynamic library libcublas.so.9.0

2020-08-19 00:05:12.169125: I tensorflow/stream\_executor/platform/default/dso\_loader.cc:44] Successfully opened dynamic library libcufft.so.9.0

2020-08-19 00:05:12.169174: I tensorflow/stream\_executor/platform/default/dso\_loader.cc:44] Successfully opened dynamic library libcurand.so.9.0

2020-08-19 00:05:12.169223: I tensorflow/stream\_executor/platform/default/dso\_loader.cc:44] Successfully opened dynamic library libcusolver.so.9.0

2020-08-19 00:05:12.169277: I tensorflow/stream\_executor/platform/default/dso\_loader.cc:44] Successfully opened dynamic library libcusparse.so.9.0

2020-08-19 00:05:12.169325: I tensorflow/stream\_executor/platform/default/dso\_loader.cc:44] Successfully opened dynamic library libcudnn.so.7

2020-08-19 00:05:12.177561: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1703] Adding visible gpu devices: 0, 1, 2, 3

2020-08-19 00:05:12.179246: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1561] Found device 0 with properties:

pciBusID: 0000:04:00.0 name: Tesla P100-SXM2-16GB computeCapability: 6.0

coreClock: 1.4805GHz coreCount: 56 deviceMemorySize: 15.90GiB deviceMemoryBandwidth: 681.88GiB/s

2020-08-19 00:05:12.180355: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1561] Found device 1 with properties:

pciBusID: 0000:06:00.0 name: Tesla P100-SXM2-16GB computeCapability: 6.0

coreClock: 1.4805GHz coreCount: 56 deviceMemorySize: 15.90GiB deviceMemoryBandwidth: 681.88GiB/s

2020-08-19 00:05:12.181456: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1561] Found device 2 with properties:

pciBusID: 0000:07:00.0 name: Tesla P100-SXM2-16GB computeCapability: 6.0

coreClock: 1.4805GHz coreCount: 56 deviceMemorySize: 15.90GiB deviceMemoryBandwidth: 681.88GiB/s

2020-08-19 00:05:12.182542: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1561] Found device 3 with properties:

pciBusID: 0000:08:00.0 name: Tesla P100-SXM2-16GB computeCapability: 6.0

coreClock: 1.4805GHz coreCount: 56 deviceMemorySize: 15.90GiB deviceMemoryBandwidth: 681.88GiB/s

2020-08-19 00:05:12.182623: I tensorflow/stream\_executor/platform/default/dso\_loader.cc:44] Successfully opened dynamic library libcudart.so.9.0

2020-08-19 00:05:12.182682: I tensorflow/stream\_executor/platform/default/dso\_loader.cc:44] Successfully opened dynamic library libcublas.so.9.0

2020-08-19 00:05:12.182731: I tensorflow/stream\_executor/platform/default/dso\_loader.cc:44] Successfully opened dynamic library libcufft.so.9.0

2020-08-19 00:05:12.182789: I tensorflow/stream\_executor/platform/default/dso\_loader.cc:44] Successfully opened dynamic library libcurand.so.9.0

2020-08-19 00:05:12.182835: I tensorflow/stream\_executor/platform/default/dso\_loader.cc:44] Successfully opened dynamic library libcusolver.so.9.0

2020-08-19 00:05:12.182882: I tensorflow/stream\_executor/platform/default/dso\_loader.cc:44] Successfully opened dynamic library libcusparse.so.9.0

2020-08-19 00:05:12.182928: I tensorflow/stream\_executor/platform/default/dso\_loader.cc:44] Successfully opened dynamic library libcudnn.so.7

2020-08-19 00:05:12.191238: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1703] Adding visible gpu devices: 0, 1, 2, 3

2020-08-19 00:05:12.191407: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1102] Device interconnect StreamExecutor with strength 1 edge matrix:

2020-08-19 00:05:12.191448: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1108] 0 1 2 3

2020-08-19 00:05:12.191480: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1121] 0: N Y Y Y

2020-08-19 00:05:12.191489: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1121] 1: Y N Y Y

2020-08-19 00:05:12.191518: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1121] 2: Y Y N Y

2020-08-19 00:05:12.191567: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1121] 3: Y Y Y N

2020-08-19 00:05:12.196935: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1247] Created TensorFlow device (/job:localhost/replica:0/task:0/device:GPU:0 with 14969 MB memory) -> physical GPU (device: 0, name: Tesla P100-SXM2-16GB, pci bus id: 0000:04:00.0, compute capability: 6.0)

2020-08-19 00:05:12.198149: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1247] Created TensorFlow device (/job:localhost/replica:0/task:0/device:GPU:1 with 14969 MB memory) -> physical GPU (device: 1, name: Tesla P100-SXM2-16GB, pci bus id: 0000:06:00.0, compute capability: 6.0)

2020-08-19 00:05:12.199251: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1247] Created TensorFlow device (/job:localhost/replica:0/task:0/device:GPU:2 with 14969 MB memory) -> physical GPU (device: 2, name: Tesla P100-SXM2-16GB, pci bus id: 0000:07:00.0, compute capability: 6.0)

2020-08-19 00:05:12.200338: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1247] Created TensorFlow device (/job:localhost/replica:0/task:0/device:GPU:3 with 14969 MB memory) -> physical GPU (device: 3, name: Tesla P100-SXM2-16GB, pci bus id: 0000:08:00.0, compute capability: 6.0)

2020-08-19 00:05:12.200440: I tensorflow/core/common\_runtime/process\_util.cc:147] Creating new thread pool with default inter op setting: 2. Tune using inter\_op\_parallelism\_threads for best performance.

W0819 00:05:15.286345 46912496467904 ag\_logging.py:146] AutoGraph could not transform <bound method KerasLayer.call of <tensorflow\_hub.keras\_layer.KerasLayer object at 0x2aab5ff40dd8>> and will run it as-is.

Please report this to the TensorFlow team. When filing the bug, set the verbosity to 10 (on Linux, `export AUTOGRAPH\_VERBOSITY=10`) and attach the full output.

Cause: module 'gast' has no attribute 'Constant'

To silence this warning, decorate the function with @tf.autograph.experimental.do\_not\_convert

Model: "sequential\_1"

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Layer (type) Output Shape Param #

=================================================================

sequential (Sequential) (None, 224, 224, 3) 0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

keras\_layer (KerasLayer) (None, 1792) 4363712

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

dropout (Dropout) (None, 1792) 0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

dense (Dense) (None, 250) 448250

=================================================================

Total params: 4,811,962

Trainable params: 448,250

Non-trainable params: 4,363,712

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Epoch 1/15

W0819 00:05:25.641831 46912496467904 ag\_logging.py:146] AutoGraph could not transform <function Model.make\_train\_function.<locals>.train\_function at 0x2aab7aa63158> and will run it as-is.

Please report this to the TensorFlow team. When filing the bug, set the verbosity to 10 (on Linux, `export AUTOGRAPH\_VERBOSITY=10`) and attach the full output.

Cause: Bad argument number for Name: 4, expecting 3

To silence this warning, decorate the function with @tf.autograph.experimental.do\_not\_convert

2020-08-19 00:05:27.875516: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 591 in the outer inference context.

2020-08-19 00:05:27.875612: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 646 in the outer inference context.

2020-08-19 00:05:27.875747: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 613 in the outer inference context.

2020-08-19 00:05:27.875795: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 559 in the outer inference context.

2020-08-19 00:05:27.875833: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 535 in the outer inference context.

2020-08-19 00:05:27.875885: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 503 in the outer inference context.

2020-08-19 00:05:27.875984: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 635 in the outer inference context.

2020-08-19 00:05:27.876044: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 480 in the outer inference context.

2020-08-19 00:05:27.876112: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 581 in the outer inference context.

2020-08-19 00:05:27.876200: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 492 in the outer inference context.

2020-08-19 00:05:27.876316: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 624 in the outer inference context.

2020-08-19 00:05:27.876364: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 602 in the outer inference context.

2020-08-19 00:05:27.876430: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 469 in the outer inference context.

2020-08-19 00:05:27.876497: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 570 in the outer inference context.

2020-08-19 00:05:27.876540: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 244 in the outer inference context.

2020-08-19 00:05:27.876586: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 288 in the outer inference context.

2020-08-19 00:05:27.876643: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 445 in the outer inference context.

2020-08-19 00:05:27.876685: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 423 in the outer inference context.

2020-08-19 00:05:27.876739: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 546 in the outer inference context.

2020-08-19 00:05:27.876780: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 524 in the outer inference context.

2020-08-19 00:05:27.876899: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 458 in the outer inference context.

2020-08-19 00:05:27.876960: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 413 in the outer inference context.

2020-08-19 00:05:27.877009: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 514 in the outer inference context.

2020-08-19 00:05:27.877050: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 345 in the outer inference context.

2020-08-19 00:05:27.877094: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 310 in the outer inference context.

2020-08-19 00:05:27.877138: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 209 in the outer inference context.

2020-08-19 00:05:27.877225: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 278 in the outer inference context.

2020-08-19 00:05:27.877271: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 434 in the outer inference context.

2020-08-19 00:05:27.877377: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 334 in the outer inference context.

2020-08-19 00:05:27.877456: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 379 in the outer inference context.

2020-08-19 00:05:27.877503: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 357 in the outer inference context.

2020-08-19 00:05:27.877629: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 143 in the outer inference context.

2020-08-19 00:05:27.877743: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 233 in the outer inference context.

2020-08-19 00:05:27.877796: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 198 in the outer inference context.

2020-08-19 00:05:27.877840: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 177 in the outer inference context.

2020-08-19 00:05:27.877890: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 121 in the outer inference context.

2020-08-19 00:05:27.877935: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 86 in the outer inference context.

2020-08-19 00:05:27.877989: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 166 in the outer inference context.

2020-08-19 00:05:27.878044: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 97 in the outer inference context.

2020-08-19 00:05:27.878105: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 132 in the outer inference context.

2020-08-19 00:05:27.878186: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 108 in the outer inference context.

2020-08-19 00:05:27.878273: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 155 in the outer inference context.

2020-08-19 00:05:27.878328: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 267 in the outer inference context.

2020-08-19 00:05:27.878372: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 402 in the outer inference context.

2020-08-19 00:05:27.878434: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 187 in the outer inference context.

2020-08-19 00:05:27.878471: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 299 in the outer inference context.

2020-08-19 00:05:27.878545: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 391 in the outer inference context.

2020-08-19 00:05:27.878602: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 323 in the outer inference context.

2020-08-19 00:05:27.878656: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 368 in the outer inference context.

2020-08-19 00:05:27.878718: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 256 in the outer inference context.

2020-08-19 00:05:27.878780: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 222 in the outer inference context.

2020-08-19 00:05:27.878875: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 76 in the outer inference context.

2020-08-19 00:05:28.250594: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 445 in the outer inference context.

2020-08-19 00:05:28.250845: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 413 in the outer inference context.

2020-08-19 00:05:28.250914: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 624 in the outer inference context.

2020-08-19 00:05:28.250975: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 546 in the outer inference context.

2020-08-19 00:05:28.251032: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 434 in the outer inference context.

2020-08-19 00:05:28.251075: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 646 in the outer inference context.

2020-08-19 00:05:28.251156: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 458 in the outer inference context.

2020-08-19 00:05:28.251219: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 591 in the outer inference context.

2020-08-19 00:05:28.251272: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 535 in the outer inference context.

2020-08-19 00:05:28.251349: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 581 in the outer inference context.

2020-08-19 00:05:28.251392: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 559 in the outer inference context.

2020-08-19 00:05:28.251456: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 256 in the outer inference context.

2020-08-19 00:05:28.251558: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 177 in the outer inference context.

2020-08-19 00:05:28.251617: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 391 in the outer inference context.

2020-08-19 00:05:28.251731: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 613 in the outer inference context.

2020-08-19 00:05:28.251774: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 503 in the outer inference context.

2020-08-19 00:05:28.251867: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 480 in the outer inference context.

2020-08-19 00:05:28.251913: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 244 in the outer inference context.

2020-08-19 00:05:28.251984: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 143 in the outer inference context.

2020-08-19 00:05:28.252060: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 402 in the outer inference context.

2020-08-19 00:05:28.252109: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 368 in the outer inference context.

2020-08-19 00:05:28.252175: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 233 in the outer inference context.

2020-08-19 00:05:28.252224: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 379 in the outer inference context.

2020-08-19 00:05:28.252272: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 334 in the outer inference context.

2020-08-19 00:05:28.252347: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 357 in the outer inference context.

2020-08-19 00:05:28.252402: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 288 in the outer inference context.

2020-08-19 00:05:28.252455: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 209 in the outer inference context.

2020-08-19 00:05:28.252507: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 310 in the outer inference context.

2020-08-19 00:05:28.252574: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 323 in the outer inference context.

2020-08-19 00:05:28.252676: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 222 in the outer inference context.

2020-08-19 00:05:28.252730: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 278 in the outer inference context.

2020-08-19 00:05:28.252838: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 299 in the outer inference context.

2020-08-19 00:05:28.252891: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 267 in the outer inference context.

2020-08-19 00:05:28.252934: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 345 in the outer inference context.

2020-08-19 00:05:28.253053: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 198 in the outer inference context.

2020-08-19 00:05:28.253130: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 86 in the outer inference context.

2020-08-19 00:05:28.253193: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 108 in the outer inference context.

2020-08-19 00:05:28.253238: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 76 in the outer inference context.

2020-08-19 00:05:28.253282: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 132 in the outer inference context.

2020-08-19 00:05:28.253371: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 166 in the outer inference context.

2020-08-19 00:05:28.253441: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 187 in the outer inference context.

2020-08-19 00:05:28.253486: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 155 in the outer inference context.

2020-08-19 00:05:28.253551: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 121 in the outer inference context.

2020-08-19 00:05:28.253594: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 97 in the outer inference context.

2020-08-19 00:05:28.253668: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 524 in the outer inference context.

2020-08-19 00:05:28.253745: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 514 in the outer inference context.

2020-08-19 00:05:28.253790: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 635 in the outer inference context.

2020-08-19 00:05:28.253877: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 469 in the outer inference context.

2020-08-19 00:05:28.253927: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 423 in the outer inference context.

2020-08-19 00:05:28.253981: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 602 in the outer inference context.

2020-08-19 00:05:28.254071: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 570 in the outer inference context.

2020-08-19 00:05:28.254112: W tensorflow/core/common\_runtime/shape\_refiner.cc:88] Function instantiation has undefined input shape at index: 492 in the outer inference context.

2020-08-19 00:05:29.614528: I tensorflow/stream\_executor/platform/default/dso\_loader.cc:44] Successfully opened dynamic library libcublas.so.9.0

2020-08-19 00:05:29.994423: I tensorflow/stream\_executor/platform/default/dso\_loader.cc:44] Successfully opened dynamic library libcudnn.so.7

2020-08-19 00:05:31.273558: W tensorflow/stream\_executor/gpu/asm\_compiler.cc:116] \*\*\* WARNING \*\*\* You are using ptxas 9.0.424, which is older than 9.2.88. ptxas 9.x before 9.2.88 is known to miscompile XLA code, leading to incorrect results or invalid-address errors.

You do not need to update to CUDA 9.2.88; cherry-picking the ptxas binary is sufficient.

1/487 [..............................] - ETA: 0s - loss: 6.1346 - categorical\_accuracy: 0.0078/apps/python/3.7.2/lib/python3.7/site-packages/PIL/Image.py:989: UserWarning: Palette images with Transparency expressed in bytes should be converted to RGBA images

6/487 [..............................] - ETA: 1:09:36 - loss: 6.0457 - categorical\_accuracy: 0.0052/apps/python/3.7.2/lib/python3.7/site-packages/PIL/TiffImagePlugin.py:802: UserWarning: Corrupt EXIF data. Expecting to read 2 bytes but only got 0.

184/487 [==========>...................] - ETA: 55:53 - loss: 3.5864 - categorical\_accuracy: 0.4266/apps/python/3.7.2/lib/python3.7/site-packages/PIL/TiffImagePlugin.py:802: UserWarning: Corrupt EXIF data. Expecting to read 12 bytes but only got 10.

328/487 [===================>..........] - ETA: 29:42 - loss: 3.1624 - categorical\_accuracy: 0.5288/apps/python/3.7.2/lib/python3.7/site-packages/PIL/TiffImagePlugin.py:784: UserWarning: Possibly corrupt EXIF data. Expecting to read 12 bytes but only got 10. Skipping tag 42037

463/487 [===========================>..] - ETA: 4:32 - loss: 2.9327 - categorical\_accuracy: 0.5737/apps/python/3.7.2/lib/python3.7/site-packages/PIL/TiffImagePlugin.py:802: UserWarning: Corrupt EXIF data. Expecting to read 4 bytes but only got 0.

487/487 [==============================] - ETA: 0s - loss: 2.9003 - categorical\_accuracy: 0.5792 W0819 01:38:05.475603 46912496467904 ag\_logging.py:146] AutoGraph could not transform <function Model.make\_test\_function.<locals>.test\_function at 0x2aab97a28ae8> and will run it as-is.

Please report this to the TensorFlow team. When filing the bug, set the verbosity to 10 (on Linux, `export AUTOGRAPH\_VERBOSITY=10`) and attach the full output.

Cause: Bad argument number for Name: 4, expecting 3

487/487 [==============================] - 6847s 14s/step - loss: 2.9003 - categorical\_accuracy: 0.5792 - val\_loss: 2.0459 - val\_categorical\_accuracy: 0.7443 - lr: 0.0050

Epoch 2/15

487/487 [==============================] - 3867s 8s/step - loss: 2.0695 - categorical\_accuracy: 0.7204 - val\_loss: 1.9210 - val\_categorical\_accuracy: 0.7592 - lr: 0.0050

Epoch 3/15

487/487 [==============================] - 2766s 6s/step - loss: 1.9516 - categorical\_accuracy: 0.7496 - val\_loss: 1.8900 - val\_categorical\_accuracy: 0.7752 - lr: 0.0050

Epoch 4/15

487/487 [==============================] - 2690s 6s/step - loss: 1.9021 - categorical\_accuracy: 0.7639 - val\_loss: 1.8819 - val\_categorical\_accuracy: 0.7758 - lr: 0.0050

Epoch 5/15

487/487 [==============================] - ETA: 0s - loss: 1.8728 - categorical\_accuracy: 0.7736

487/487 [==============================] - 2736s 6s/step - loss: 1.8728 - categorical\_accuracy: 0.7736 - val\_loss: 1.8846 - val\_categorical\_accuracy: 0.7786 - lr: 0.0050

Epoch 6/15

487/487 [==============================] - 2792s 6s/step - loss: 1.7984 - categorical\_accuracy: 0.7944 - val\_loss: 1.8134 - val\_categorical\_accuracy: 0.7959 - lr: 1.0000e-03

Epoch 7/15

487/487 [==============================] - 2843s 6s/step - loss: 1.7017 - categorical\_accuracy: 0.8217 - val\_loss: 1.7891 - val\_categorical\_accuracy: 0.7971 - lr: 1.0000e-03

Epoch 8/15

487/487 [==============================] - 2823s 6s/step - loss: 1.6850 - categorical\_accuracy: 0.8260 - val\_loss: 1.7861 - val\_categorical\_accuracy: 0.7981 - lr: 1.0000e-03

Epoch 9/15

487/487 [==============================] - 3604s 7s/step - loss: 1.6753 - categorical\_accuracy: 0.8282 - val\_loss: 1.7735 - val\_categorical\_accuracy: 0.8031 - lr: 1.0000e-03

Epoch 10/15

487/487 [==============================] - 2823s 6s/step - loss: 1.6609 - categorical\_accuracy: 0.8318 - val\_loss: 1.7691 - val\_categorical\_accuracy: 0.8023 - lr: 1.0000e-03

Epoch 11/15

487/487 [==============================] - 2863s 6s/step - loss: 1.6554 - categorical\_accuracy: 0.8331 - val\_loss: 1.7658 - val\_categorical\_accuracy: 0.8029 - lr: 1.0000e-03

Epoch 12/15

487/487 [==============================] - 2885s 6s/step - loss: 1.6520 - categorical\_accuracy: 0.8348 - val\_loss: 1.7630 - val\_categorical\_accuracy: 0.8029 - lr: 1.0000e-03

Epoch 13/15

487/487 [==============================] - 2921s 6s/step - loss: 1.6408 - categorical\_accuracy: 0.8374 - val\_loss: 1.7565 - val\_categorical\_accuracy: 0.8048 - lr: 1.0000e-03

Epoch 14/15

487/487 [==============================] - ETA: 0s - loss: 1.6366 - categorical\_accuracy: 0.8372

487/487 [==============================] - 3736s 8s/step - loss: 1.6366 - categorical\_accuracy: 0.8372 - val\_loss: 1.7574 - val\_categorical\_accuracy: 0.8049 - lr: 1.0000e-03

Epoch 15/15

487/487 [==============================] - 3016s 6s/step - loss: 1.6253 - categorical\_accuracy: 0.8419 - val\_loss: 1.7492 - val\_categorical\_accuracy: 0.8049 - lr: 2.0000e-04

2020-08-19 13:45:48.956679: W tensorflow/python/util/util.cc:329] Sets are not currently considered sequences, but this may change in the future, so consider avoiding using them.

W0819 13:45:48.987049 46912496467904 ag\_logging.py:146] AutoGraph could not transform <function canonicalize\_signatures.<locals>.signature\_wrapper at 0x2aab97a4c268> and will run it as-is.

Please report this to the TensorFlow team. When filing the bug, set the verbosity to 10 (on Linux, `export AUTOGRAPH\_VERBOSITY=10`) and attach the full output.

Cause: Bad argument number for Name: 4, expecting 3

To silence this warning, decorate the function with @tf.autograph.experimental.do\_not\_convert

W0819 13:45:50.383071 46912496467904 ag\_logging.py:146] AutoGraph could not transform <function KerasLayer.\_call\_loss\_if\_trainable.<locals>.<lambda> at 0x2aab5ef0ee18> and will run it as-is.

Please report this to the TensorFlow team. When filing the bug, set the verbosity to 10 (on Linux, `export AUTOGRAPH\_VERBOSITY=10`) and attach the full output.

Cause: module 'gast' has no attribute 'Constant'

To silence this warning, decorate the function with @tf.autograph.experimental.do\_not\_convert

W0819 13:45:50.414086 46912496467904 ag\_logging.py:146] AutoGraph could not transform <function Layer.\_handle\_weight\_regularization.<locals>.\_loss\_for\_variable at 0x2aab5e0ce7b8> and will run it as-is.

Please report this to the TensorFlow team. When filing the bug, set the verbosity to 10 (on Linux, `export AUTOGRAPH\_VERBOSITY=10`) and attach the full output.

Cause: Bad argument number for Name: 4, expecting 3

To silence this warning, decorate the function with @tf.autograph.experimental.do\_not\_convert

W0819 13:45:50.632492 46912496467904 deprecation.py:506] From /apps/tensorflow/2.2.0-py37-gcc5-gpu/lib/python3.7/site-packages/tensorflow/python/ops/resource\_variable\_ops.py:1817: calling BaseResourceVariable.\_\_init\_\_ (from tensorflow.python.ops.resource\_variable\_ops) with constraint is deprecated and will be removed in a future version.

Instructions for updating:

If using Keras pass \*\_constraint arguments to layers.