coursera

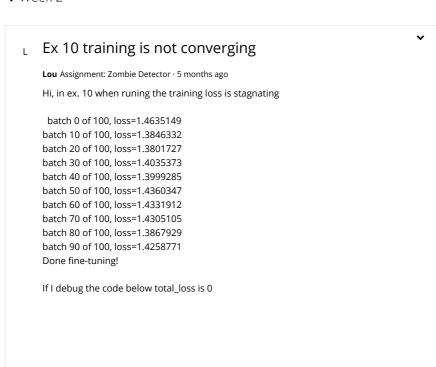
Q

Discussion Forums

Week 2

SUBFORUMS ΑII Assignment: Zombie Detector

← Week 2



11 Args: 12

image_list: A list of [1, height, width, 3] Tensor of type tf.float32.

```
13
                Note that the height and width can vary across images, as they are
   14
                reshaped within this function the Section k640.
   15
              groundtruth_boxes_list: A list of Tensors of shape [N_i, 4] with type
                tf.float32 representing groundtruth boxes for each image in the batch.
   16
   17
              groundtruth_classes_list: A list of Tensors of shape [N_i, num_classes]
   18
                with type tf.float32 representing groundtruth boxes for each image in
   19
                the batch.
   20
   21
            Returns:
              A scalar tensor representing the total loss for the input batch.
   22
   23
   24
   25
   26
            model.provide_groundtruth(
               {\tt groundtruth\_boxes\_list=groundtruth\_boxes\_list,}
   27
   28
               ground truth\_classes\_list=ground truth\_classes\_list
   29
   30
            with tf.GradientTape() as tape:
   31
   32
   33
            # ### START CODE HERE (Replace instances of `None` with your code) ###
   34
   35
               preprocessed_image_list = []
   36
               true_shape_list = []
   37
   38
               # Preprocess the images
   39
               for img in image\_list:
   40
                 processed_img, true_shape = model.preprocess(img)
   41
                 print (true_shape)
   42
                  preprocessed_image_list.append(processed_img)
   43
                  true_shape_list.append(true_shape)
   44
               preprocessed_image_tensor = tf.concat(preprocessed_image_list, axis=0)
   45
   46
               true_shape_tensor = tf.concat(true_shape_list, axis=0)
   47
   48
               print(f"preprocessed_image_tensor shape: {preprocessed_image_tensor.shape}")
   49
               print(f"true_shape_tensor shape: {true_shape_tensor.shape}")
   50
Would you have spotten a potential root cause?

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                Reply
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```

Q

	Earliest	ī	Гор	Most Recent	
PC	PIERRE CONTENCIN · a month ago Well I had the same problem and it was the checkpoint which was responsible your code for the step_fn is ok. As I couldn't fiugre out properly where the mistake was in my code I have taken the code from the tutorial on Colab with the duckie images on this and copied paste it (with the portability) at cell where I load the checkpoint and				
	it went fine I still myself didn't wo	have to figure out work properly but the n	hy the tmp_mod notebook could b	lel checkpoitns that I tried by the imporved by some more kpoints. Because it went fine	
	û 0 Upvotes	Reply			
0.0	Nitin Kandpal · a month ago				
	you dont know but saved me and deserve a beer from me. Thanks				
	û 0 Upvotes	Reply			
С	Christian ⋅ 3 months ago				
	I recommend to similar.	review the tutorial o	n Colab with the	duckie images. It's very	
	û 0 Upvotes	Reply			
TW	Thomas Woo · 4 months ago · Edited				~
	if anyone is getting this problem, make sure you properly named your checkpoint				

args

```
tmp_model_checkpoint = tf.train.Checkpoint(
    _feature_extractor = detection_model._feature_extractor,
    _box_predictor_ = tmp_box_predictor_checkpoint
    )
```

corrected:

```
1 tmp_model_checkpoint = tf.train.Checkpoint(
2     _feature_extractor = detection_model._feature_extractor,
3     _box_predictor = tmp_box_predictor_checkpoint
4 )
```

MB Minn Bo Bo · 5 months ago

Try to put model.provide_groundtruth inside gradient tape just after the prediction and run again?

Lou · 5 months ago

Thanks! What do you mean by re-running training: adding a loop in train_step_fn itself?

Would you like to share your code for train_step_fn?



$\textbf{Pavitra Shah} \cdot 5 \text{ months ago}$

Keep re-running the training loop. I did that and after few loop it came down to 0.0005 for me.

⊕ 0 Upvotes

☐ Hide 6 Replies

LV **Leo Vinzenz** \cdot 5 months ago

I did that by increasing the batch size but it is a long way not a few loops for me:

LV Leo Vinzenz · 5 months ago

Actually, I found the problem earlier in the code when I didn't restore the checkpoint properly. I revisited all the steps before and found some errors leading to that problem. Take a look at exercise 6 and 7. Check if you did the following in Exercise 6. Note: I missed [...].expect_partial() in the beginning, but it didn't throw an error

Restore the checkpoint to the checkpoint path

checkpoint.restore(checkpoint_path).expect_partial()

û 1 Upvote

PM **Prakadeeswaran Manivannan** · 5 months ago

Hey Lio Vinzez even after doing that my loss is not converging any idea why?

û 0 Upvotes



Juv Chan · 5 months ago

What is the final loss you get before able to pass this assignment? I dont believe just a few loops.



 \equiv

SD

Reply

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