

C1W3_Assignment

December 23, 2020

1 Week 3 Assignment: Implement a Quadratic Layer

In this week's programming exercise, you will build a custom quadratic layer which computes $y = ax^2 + bx + c$. Similar to the ungraded lab, this layer will be plugged into a model that will be trained on the MNIST dataset. Let's get started!

1.0.1 Imports

```
[38]: import tensorflow as tf
      from tensorflow.keras.layers import Layer
      from tensorflow.keras.layers import Conv1D

      import utils
```

1.0.2 Define the quadratic layer (TODO)

Implement a simple quadratic layer. It has 3 state variables: a , b and c . The computation returned is $ax^2 + bx + c$. Make sure it can also accept an activation function.

__init__

- call `super(my_fun, self)` to access the base class of `my_fun`, and call the `__init__()` function to initialize that base class. In this case, `my_fun` is `SimpleQuadratic` and its base class is `Layer`.
- `self.units`: set this using one of the function parameters.
- `self.activation`: The function parameter `activation` will be passed in as a string. To get the tensorflow object associated with the string, please use `tf.keras.activations.get()`

build The following are suggested steps for writing your code. If you prefer to use fewer lines to implement it, feel free to do so. Either way, you'll want to set `self.a`, `self.b` and `self.c`.

- `a_init`: set this to tensorflow's `random_normal_initializer()`
- `a_init_val`: Use the `random_normal_initializer()` that you just created and invoke it, setting the `shape` and `dtype`.

- The `shape` of `a` should have its row dimension equal to the last dimension of `input_shape`, and its column dimension equal to the number of units in the layer.
- This is because you'll be matrix multiplying $x^2 * a$, so the dimensions should be compatible.
- set the dtype to 'float32'
- `self.a`: create a tensor using `tf.Variable`, setting the `initial_value` and set trainable to `True`.
- `b_init`, `b_init_val`, and `self.b`: these will be set in the same way that you implemented `a_init`, `a_init_val` and `self.a`
- `c_init`: set this to `tf.zeros_initializer`.
- `c_init_val`: Set this by calling the `tf.zeros_initializer` that you just instantiated, and set the `shape` and `dtype`
 - `shape`: This will be a vector equal to the number of units. This expects a tuple, and remember that a tuple `(9,)` includes a comma.
 - `dtype`: set to 'float32'.
- `self.c`: create a tensor using `tf.Variable`, and set the parameters `initial_value` and `trainable`.

call The following section performs the multiplication $x^2a + xb + c$. The steps are broken down for clarity, but you can also perform this calculation in fewer lines if you prefer. - `x_squared`: use `tf.math.square()` - `x_squared_times_a`: use `tf.matmul()`.
 - If you see an error saying `InvalidArgumentError: Matrix size-incompatible`, please check the order of the matrix multiplication to make sure that the matrix dimensions line up. - `x_times_b`: use `tf.matmul()`. - `x2a_plus_xb_plus_c`: add the three terms together. - `activated_x2a_plus_xb_plus_c`: apply the class's `activation` to the sum of the three terms.

```
[71]: ## Please uncomment all lines in this cell and replace those marked with `#`  

      ↪YOUR CODE HERE`.  

## You can select all lines in this code cell with Ctrl+A (Windows/Linux) or  

      ↪Cmd+A (Mac), then press Ctrl+/ (Windows/Linux) or Cmd+/ (Mac) to uncomment.  

  

class SimpleQuadratic(Layer):  

    def __init__(self, units=32, activation=None):  

        '''Initializes the class and sets up the internal variables'''  

        super(SimpleQuadratic, self).__init__()  

        self.units = units  

        self.activation = tf.keras.activations.get(activation)  

  

    def build(self, input_shape):  

        '''Create the state of the layer (weights)'''  

        self.a = tf.Variable(initial_value = tf.  

        ↪random_normal_initializer()((input_shape[-1], self.units)), trainable=True,  

        ↪dtype=tf.float32, name = "a")
```



```
~/work/release/W3_Assignment/utils.py in
↳ test_simple_quadratic(SimpleQuadratic)
    110     ]
    111
--> 112     test_loop(test_cases)
```

```
~/work/release/W3_Assignment/utils.py in test_loop(test_cases)
    23         print('\033[92m', success, " Tests passed")
    24         print('\033[91m', fails, " Tests failed")
---> 25         raise Exception(test_case["error_message"])
    26
    27
```

Exception: Expected output is incorrect. Please check operations in the
↳ call() method.

Train your model with the SimpleQuadratic layer that you just implemented.

```
[73]: # THIS CODE SHOULD RUN WITHOUT MODIFICATION
# AND SHOULD RETURN TRAINING/TESTING ACCURACY at 97%+

mnist = tf.keras.datasets.mnist

(x_train, y_train), (x_test, y_test) = mnist.load_data()
x_train, x_test = x_train / 255.0, x_test / 255.0
image_height, image_width = 28, 28

#x_train = x_train.reshape(x_train.shape[0], image_height, image_width, 1)
#x_test = x_test.reshape(x_test.shape[0], image_height, image_width, 1)
input_shape = (image_height, image_width, 1)
model = tf.keras.models.Sequential([
    #tf.keras.layers.Conv2D(filters=64, kernel_size=(3,
↳ 3), activation='relu', input_shape=input_shape),
    tf.keras.layers.Flatten(input_shape=(28, 28)),

    SimpleQuadratic(128, activation='relu'),

    tf.keras.layers.Dropout(0.2),

    tf.keras.layers.Dense(10, activation='softmax')
])

model.compile(optimizer='adam',
              loss='sparse_categorical_crossentropy',
```

```
metrics=['accuracy'])

model.fit(x_train, y_train, epochs=2)
model.evaluate(x_test, y_test)
```

Train on 60000 samples

Epoch 1/2

```
[[-0.0303050857 -0.127750814 -0.0522238314 ... 0.0412890837 0.00335440855
-0.0530435927]
 [0.0942638218 0.0290318113 -0.0149100218 ... -0.0999489054 -0.0236086119
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 [-0.0147014707 0.00216276245 -0.00718989735 ... 0.00477966294 -0.00768449111
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0.0306284577]
 [-0.0477025919 -0.00362604298 -0.0296444185 ... -0.0544186309 0.0261861272
-0.0814717337]]
 32/60000 [...] - ETA: 6:44 - loss: 6.1357 -
accuracy: 0.2500[[-0.0303050857 -0.127750814 -0.0522238314 ... 0.0412890837
0.00335440855 -0.0530435927]
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-0.0814717337]]
256/60000 [...] - ETA: 1:08 - loss: 3.8303 -
accuracy: 0.2578[[-0.0303050857 -0.127750814 -0.0522238314 ... 0.0412890837
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[-0.0477025919 -0.00362604298 -0.0296444185 ... -0.0544186309 0.0261861272
-0.0814717337]]
512/60000 [...] - ETA: 45s - loss: 2.8509 -
accuracy: 0.3750 [[-0.0303050857 -0.127750814 -0.0522238314 ... 0.0412890837
0.00335440855 -0.0530435927]
[0.0942638218 0.0290318113 -0.0149100218 ... -0.0999489054 -0.0236086119
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1152/60000 [...] - ETA: 30s - loss: 1.8855 -
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10176/60000 [====>...] - ETA: 17s - loss: 0.6755 -

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10528/60000 [====>...] - ETA: 16s - loss: 0.6635 -

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Epoch 2/2
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32/60000 [...] - ETA: 4s - loss: 0.1125 -
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64/60000 [...] - ETA: 1:17 - loss: 0.2429 -
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[0.0942638218 0.0290318113 -0.0149100218 ... -0.0999489054 -0.0236086119
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[[-0.0303050857 -0.127750814 -0.0522238314 ... 0.0412890837 0.00335440855
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-0.0814717337]]
13504/60000 [=====>...] - ETA: 14s - loss: 0.1615 -
accuracy: 0.9510[[-0.0303050857 -0.127750814 -0.0522238314 ... 0.0412890837
0.00335440855 -0.0530435927]
[0.0942638218 0.0290318113 -0.0149100218 ... -0.0999489054 -0.0236086119
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13824/60000 [=====>...] - ETA: 14s - loss: 0.1604 -
accuracy: 0.9512

```

```

KeyboardInterrupt                                Traceback (most recent call
last)

<ipython-input-73-8e543ad831b0> in <module>
    27             metrics=['accuracy'])
    28
---> 29 model.fit(x_train, y_train, epochs=2)
    30 model.evaluate(x_test, y_test)

/opt/conda/lib/python3.7/site-packages/tensorflow_core/python/keras/
engine/training.py in fit(self, x, y, batch_size, epochs, verbose, callbacks,
validation_split, validation_data, shuffle, class_weight, sample_weight,
initial_epoch, steps_per_epoch, validation_steps, validation_freq,
max_queue_size, workers, use_multiprocessing, **kwargs)
    817         max_queue_size=max_queue_size,
    818         workers=workers,
--> 819         use_multiprocessing=use_multiprocessing)
    820
    821     def evaluate(self,

/opt/conda/lib/python3.7/site-packages/tensorflow_core/python/keras/
engine/training_v2.py in fit(self, model, x, y, batch_size, epochs, verbose,
callbacks, validation_split, validation_data, shuffle, class_weight,
sample_weight, initial_epoch, steps_per_epoch, validation_steps,
validation_freq, max_queue_size, workers, use_multiprocessing, **kwargs)
    340         mode=ModeKeys.TRAIN,
    341         training_context=training_context,
--> 342         total_epochs=epochs)
    343         cbks.make_logs(model, epoch_logs, training_result,
ModeKeys.TRAIN)
    344

/opt/conda/lib/python3.7/site-packages/tensorflow_core/python/keras/
engine/training_v2.py in run_one_epoch(model, iterator, execution_function,
dataset_size, batch_size, strategy, steps_per_epoch, num_samples, mode,
training_context, total_epochs)
    126         step=step, mode=mode, size=current_batch_size) as batch_logs:
    127         try:
--> 128             batch_outs = execution_function(iterator)
    129         except (StopIteration, errors.OutOfRangeError):

```

```

130          # TODO(kaftan): File bug about tf function and errors.
↳OutOfRangeError?

/opt/conda/lib/python3.7/site-packages/tensorflow_core/python/keras/
↳engine/training_v2_utils.py in execution_function(input_fn)
    96         # `numpy` translates Tensors to values in Eager mode.
    97         return nest.map_structure(_non_none_constant_value,
--> 98                                 distributed_function(input_fn))
    99
   100     return execution_function

/opt/conda/lib/python3.7/site-packages/tensorflow_core/python/eager/
↳def_function.py in __call__(self, *args, **kwargs)
   566         xla_context.Exit()
   567     else:
--> 568         result = self._call(*args, **kwargs)
   569
   570         if tracing_count == self._get_tracing_count():

/opt/conda/lib/python3.7/site-packages/tensorflow_core/python/eager/
↳def_function.py in _call(self, *args, **kwargs)
   597         # In this case we have created variables on the first call, so
↳we run the
   598         # defunned version which is guaranteed to never create
↳variables.
--> 599         return self._stateless_fn(*args, **kwargs) # pylint:
↳disable=not-callable
   600     elif self._stateful_fn is not None:
   601         # Release the lock early so that multiple threads can perform
↳the call

/opt/conda/lib/python3.7/site-packages/tensorflow_core/python/eager/
↳function.py in __call__(self, *args, **kwargs)
   2361         with self._lock:
   2362             graph_function, args, kwargs = self.
↳_maybe_define_function(args, kwargs)
-> 2363         return graph_function._filtered_call(args, kwargs) # pylint:
↳disable=protected-access
   2364
   2365     @property

```

```

/opt/conda/lib/python3.7/site-packages/tensorflow_core/python/eager/
function.py in _filtered_call(self, args, kwargs)
    1609         if isinstance(t, (ops.Tensor,
    1610                             resource_variable_ops.
BaseResourceVariable))),
    -> 1611         self.captured_inputs)
    1612
    1613     def _call_flat(self, args, captured_inputs,
function.py in _call_flat(self, args, captured_inputs, cancellation_manager=None):

/opt/conda/lib/python3.7/site-packages/tensorflow_core/python/eager/
function.py in _call_flat(self, args, captured_inputs, cancellation_manager)
    1690         # No tape is watching; skip to running the function.
    1691         return self._build_call_outputs(self._inference_function.call(
    -> 1692             ctx, args, cancellation_manager=cancellation_manager))
    1693         forward_backward = self._select_forward_and_backward_functions(
    1694             args,

/opt/conda/lib/python3.7/site-packages/tensorflow_core/python/eager/
function.py in call(self, ctx, args, cancellation_manager)
    543             inputs=args,
    544             attrs=("executor_type", executor_type, "config_proto",
function.py in call(self, ctx, args, cancellation_manager)
    -> 545             ctx=ctx)
    546         else:
    547             outputs = execute.execute_with_cancellation(

/opt/conda/lib/python3.7/site-packages/tensorflow_core/python/eager/
execute.py in quick_execute(op_name, num_outputs, inputs, attrs, ctx, name)
    59         tensors = pywrap_tensorflow.TFE_Py_Execute(ctx._handle,
function.py in quick_execute(op_name, num_outputs, inputs, attrs, ctx, name)
    60             op_name, inputs,
function.py in quick_execute(op_name, num_outputs, inputs, attrs, ctx, name)
    -> 61             num_outputs)
    62     except core._NotOkStatusException as e:
    63         if name is not None:

```

KeyboardInterrupt:

```
[31]: img_rows=x_train[0].shape[0]
img_cols=x_test[0].shape[1]
```

```
X_train=x_train.reshape(x_train.shape[0],img_rows,img_cols,1)
```

```
[54]: x_train.shape
```

```
[54]: (60000, 28, 28)
```

```
[37]: x_train.shape
```

```
[37]: (60000, 28, 28, 1)
```

```
[ ]:
```