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mirr





 e. Creator of Keras. . Author of 'Deep Opinions are my own. François Chollet

Keras creator

@fchollet

Follow

Here is the same dynamic RNN implemented in 4 different frameworks (TensorFlow/Keras, MXNet/Gluon, Chainer, PyTorch). Can you tell which is which?

```
def __init__(self, self=32):
    super(MyRM, self).__init__()
     self.units - units
         self_name_scope():
         self.projection_1 = nn.Dense(units-units, activation='tanh')
self.projection_2 = nn.Dense(units-units, activation='tanh')
def forward[self, inputs]:
     outputs = [
     state = zeros(shape=(inputs.shape[@], self.units))
        t in range(inputs.shape[1]):
          x = imputa[:, t, :]
          h = self.projection.1(x)
         y = h + self.projection_2(state)
         state - y
         outputs.cppend(y)
            concet(*outputs, die-1)
```

```
def __init__(self, units=32):
    super(MyRNM, self).__init__()
     self.units - units
     self.projection_1 = loyers.Dense(units-units, activation="tarh")
self.projection_2 = loyers.Dense(units-units, activation="tarh")
     state = zeros(shape=(inputs.shape[i], self.units))
for t in range(inputs.shape[i]):
           z = inputs[:, t, :]
           h = self.projection_100
           y = h + self.projection_2(state)
           state = y
           outputs.oppend(y)
              concatenate(outputs, acis-1)
```

```
Cass MyfMit(Module);
   def _init_(mif, units-52):
         swer(%file, self) .__init__()
        self_projection_1 = layers_timesr(in_fratures=None, out_fratures=units)
self_projection_1 = layers_timesr(in_fratures=None, out_fratures=units)
   def forword(self, inputs):
    outsets = []
         state = zerus(shape=(inputs.shape[8], self.units))
for t in range(inputs.shape[1]):
              h = tanh(self.projection_1(x))
              y = h + tanh(self.projection_2(state))
             outputs.append(y)
                 stack(outputs, sta-1)
```

```
def __imit__(self, units=32):
    super(MyRM, self).__imit__()
     self.units - units
         self.init_scope():
         self.projection_1 = layers.Linear(in_size-Mone, out_size-units)
         self.projection_1 = layers.Linear(in_size-Hone, out_size-units)
def forward(self, inputs):
    outputs = []
     state = zeros(shape=(imputs.shape[N], self.unitx)))
        r t in range(inputs.shape[i]):
         x = inputs[:, t, :]
         h = tanh(self.projection_100)
         y = h + torh(self.projection_2(state))
         state - y
         outputs.copera(y)
            stack(outputs, exis-1)
```

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