Pytorch Call Method Misused

Context

Both `self.net()` and `self.net.forward()` can be used **to forward the input into the network in PyTorch.**

Problem

In PyTorch, `self.net()` and `self.net.forward()` **are not identical.** The `self.net()` also deals **with all the register hooks**, which **would not be considered when calling the plain** `.forward()`.

Solution

It is recommended **to use `self.net()` rather than `self.net.forward()`.**

Existing Stage	Effect
Model Training	Robustness

Example

Python

```
### PyTorch
# 1. Load and normalize CIFAR10
# 2. Define a Convolutional Neural Network
   def forward(self, x):
-      x = self.pool.forward(F.relu(self.conv1(x)))
+      x = self.pool(F.relu(self.conv1(x)))
       x = self.pool(F.relu(self.conv2(x)))
       x = torch.flatten(x, 1) # flatten all dimensions except
batch
        x = F.relu(self.fc1(x))
        x = F.relu(self.fc2(x))
        x = self.fc3(x)
        return x
```