내 강의실

[종료] 2024년도 B1004 PyT

- 강의영상
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공지/강의자료

제목	Intro.Deep_CNNs
작성자	이영완
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목록

댓글 1개

작성자 : KRIBB_윤태성 등록일 : 2024-02-21 오후 04:05

```
class MyMoreCNN128(torch.nn.Module):
# Including Three CNN Layers
def __init__(self):
super(MyMoreCNN128, self).__init__()
# Torch tensor dim. (bath_size, C, H, W)
# L1 ImgIn shape=(batch_size, 1, 28, 28)
# Conv -> (batch_size, 32, 28, 28)
# Relu -> (batch_size, 32, 28, 28)
# Pool -> (batch_size, 32, 14, 14)
self.conv1 = torch.nn.Conv2d(1, 32, kernel_size=3, stride=1, padding=1)
self.relu1 = torch.nn.ReLU()
self.pool1 = torch.nn.MaxPool2d(kernel_size=2, stride=2)

# L2 ImgIn shape=(batch_size, 32, 14, 14)
# Conv ->(batch_size, 64, 14, 14)
# Relu ->(batch_size, 64, 14, 14)
# Pool ->(batch_size, 64, 7, 7)
self.conv2 = torch.nn.Conv2d(32, 64, kernel_size=3, stride=1, padding=1)
self.relu2 = torch.nn.ReLU()
self.pool2 = torch.nn.MaxPool2d(kernel_size=2, stride=2)

# L3 ImgIn shape=(batch_size, 32, 14, 14)
# Conv ->(batch_size,128, 14, 14)
# Relu ->(batch_size,128, 14, 14)
# Pool ->(batch_size,128, 7, 7)
self.conv2 = torch.nn.Conv2d(32,128, kernel_size=3, stride=1, padding=1)
self.relu2 = torch.nn.ReLU()
self.pool2 = torch.nn.MaxPool2d(kernel_size=2, stride=2)


# Final FC 7x7x64 inputs -> 10 outputs
self.fc = torch.nn.Linear(7 * 7 * 128, 10, bias=True)
torch.nn.init.xavier_uniform_(self.fc.weight)
```

답글달기

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제출