VGG Training with Fashion-MNIST

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In [1]: import torch
        from torch import nn
        from d2l import torch as d2l
In [2]: def vgg_block(num_convs, out_channels):
            layers = []
            for _ in range(num_convs):
                layers.append(nn.LazyConv2d(out channels, kernel size=3, padding=1))
                layers.append(nn.ReLU())
            layers.append(nn.MaxPool2d(kernel size=2,stride=2))
            return nn.Sequential(*layers)
In [3]: class VGG(d21.Classifier):
            def __init__(self, arch, lr=0.1, num_classes=10):
                super().__init__()
                self.save_hyperparameters()
                conv blks = []
                for (num_convs, out_channels) in arch:
                    conv_blks.append(vgg_block(num_convs, out_channels))
                self.net = nn.Sequential(
                    *conv blks, nn.Flatten(),
                    nn.LazyLinear(4096), nn.ReLU(), nn.Dropout(0.5),
                    nn.LazyLinear(4096), nn.ReLU(), nn.Dropout(0.5),
                    nn.LazyLinear(num_classes))
                self.net.apply(d2l.init_cnn)
In [4]: model = VGG(arch=((1, 16), (1, 32), (2, 64), (2, 128), (2, 128)), lr=0.01)
        trainer = d2l.Trainer(max_epochs=10, num_gpus=1)
        data = d2l.FashionMNIST(batch size=128, resize=(224, 224))
        model.apply_init([next(iter(data.get_dataloader(True)))[0]], d2l.init_cnn)
        trainer.fit(model, data)
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