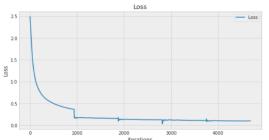
Mnist: model Relu

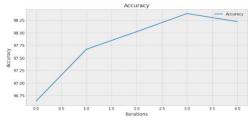
```
self.main = nn.Sequential(
    nn.Conv2d(1, 16, 3, 1, 1, bias=False),
    nn.BatchNorm2d(16),
    self.choise_activate(),
    nn.MaxPool2d(2, 2),
    nn.Dropout(0.3),
    #printL,

    nn.Conv2d(16, 64, 3, 1, 1, bias=False),
    nn.BatchNorm2d(64),
    self.choise_activate(),
    nn.MaxPool2d(2, 2),
    nn.Dropout(0.3),

    nn.Flatten(),
    nn.Linear(64 * 7 * 7, 128),
    nn.Linear(128, 10),
)
```

Batch:938 of 938, loss:0.016, MeanLoss:0.098 Accuracy of the network on the 10000 test images: 98.210 % Total_time : 0.7701400597890218 Mins



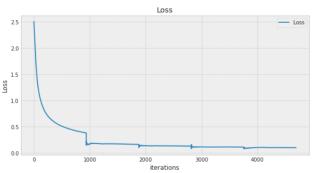


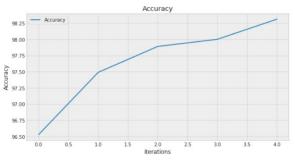
Activate function : relu

Leakyrelu

Epoch:5

Batch:938 of 938, loss:0.215, MeanLoss:0.100
Accuracy of the network on the 10000 test images: 98.310 %
Total_time : 0.78238605260849 Mins



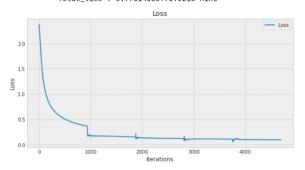


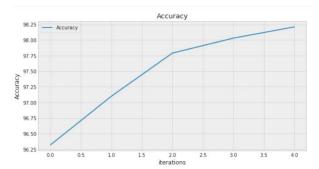
Activate function : leaky_r

ule

Epoch:5

Batch:938 of 938, loss:0.016, MeanLoss:0.098
Accuracy of the network on the 10000 test images: 98.210 %
Total_time : 0.7701400597890218 Mins





Mnist 用 leakyrelu 效果最好。

KMnist

```
self.main = nn.Sequential(
    nn.Conv2d(1, 16, 3, 1, 1, bias=False),
    nn.BatchNorm2d(16),
    self.choise_activate(),
    nn.MaxPool2d(2, 2),
    nn.Dropout(0.3),
    #printL,

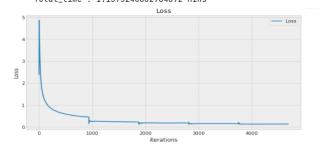
    nn.Conv2d(16, 64, 3, 1, 1, bias=False),
    nn.BatchNorm2d(64),
    self.choise_activate(),
    nn.MaxPool2d(2, 2),
    nn.Dropout(0.3),

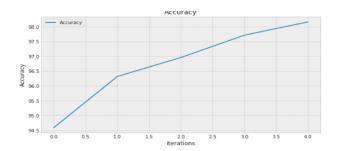
    nn.Flatten(),
    nn.Linear(64 * 7 * 7, 128),
    nn.Linear(128, 10),
}
```

relu

Epoch:5

Batch:938 of 938, loss:0.031, MeanLoss:0.131
Accuracy of the network on the 10000 test images: 98.160 %
Total_time : 1.1375240802764892 Mins





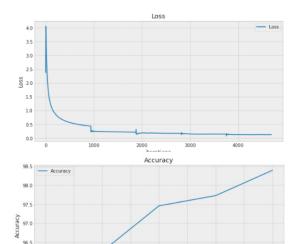
LeakyRelu

Epoch:5

Batch:938 of 938, loss:0.031, MeanLoss:0.125

Accuracy of the network on the 10000 test images: 98.392 %

Total_time : 1.1582466284434 Mins

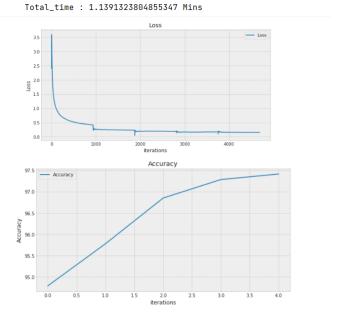


96.0

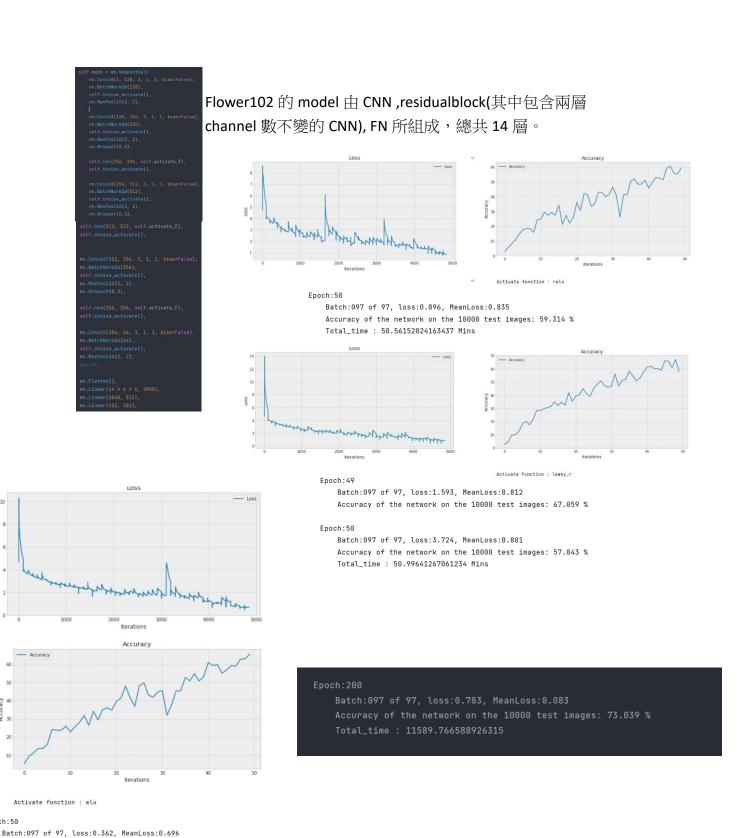
Epoch:5

Batch:938 of 938, loss:0.197, MeanLoss:0.157

Accuracy of the network on the 10000 test images: 97.413 %



KMnist: LeakyRelu 效果最好



Flower102:leackyRelu 效果最好,目前最高的 accuracy 是 73.8%

Accuracy of the network on the 10000 test images: 65.392~%

Total_time : 50.73040278752645 Mins