

mse +mlp+sgd

min 27.26

```
Epoch: #980, test MSE: 0.021570, SMAPE: 27.27
Epoch: #990, test MSE: 0.021537, SMAPE: 27.26
end
train_loss 0.008243 : train_smape 27.11
eva_loss 0.008250 : eva_smape 26.20
test_loss 0.029185 : test_smape 30.25
end
```

mae +mlp+sgd

min 28.20

```
Epoch: #960, test LOSS: 0.114497, SMAPE: 28.43
Epoch: #970, test LOSS: 0.114494, SMAPE: 28.43
Epoch: #980, test LOSS: 0.114481, SMAPE: 28.42
Epoch: #990, test LOSS: 0.114510, SMAPE: 28.43
Epoch: #999, test LOSS: 0.114413, SMAPE: 28.41
end
train_loss 0.061002 : train_smape 27.83
eva_loss 0.056368 : eva_smape 24.78
test_loss 0.119472 : test_smape 29.46
end
```

mse+mlp+动量sgd

0.9

```
Epoch: #990, test LOSS: 0.032153, SMAPE: 33.43
Epoch: #999, test LOSS: 0.032157, SMAPE: 33.42
end
train_loss 0.009389 : train_smape 33.38
eva_loss 0.009427 : eva_smape 32.31
test_loss 0.044446 : test_smape 41.02
end
```

0.1

```
Epoch: #990, test LOSS: 0.021472, SMAPE: 27.26
Epoch: #999, test LOSS: 0.021441, SMAPE: 27.25
end
train_loss 0.008319 : train_smape 27.22
eva_loss 0.008316 : eva_smape 26.28
test_loss 0.029400 : test_smape 30.33
end
```

mae+mlp+动量sgd

0.1

```
Epoch: #960, test LOSS: 0.114681, SMAPE: 28.39
Epoch: #970, test LOSS: 0.114626, SMAPE: 28.37
Epoch: #980, test LOSS: 0.114609, SMAPE: 28.37
Epoch: #990, test LOSS: 0.114654, SMAPE: 28.38
Epoch: #999, test LOSS: 0.114602, SMAPE: 28.37
end
train_loss 0.061184 : train_smape 27.93
eva_loss 0.056679 : eva_smape 24.89
test_loss 0.119898 : test_smape 29.46
end
```

```
2022-01-15 18:42:54.004433: I tensorflow/compiler/mlir/mli
train loss 0.022204 : smape 26.102
4/4 [=====] - 0s 6ms/step
test loss 0.018170 : smape 26.385

Process finished with exit code 0
```

```
Epoch: #980, test LOSS: 0.023661, SMAPE: 29.49
Epoch: #990, test LOSS: 0.023645, SMAPE: 29.49
Epoch: #999, test LOSS: 0.023631, SMAPE: 29.48
end
train_loss 0.005426 : train_smape 29.81 |
eva_loss 0.005573 : eva_smape 29.10
test_loss 0.028076 : test_smape 31.83
end

Process finished with exit code 0
```