Use GPU: cuda:0

1

>>>>>>>start training : ETTh1\_96\_24\_Autoformer\_ETTh1\_ftM\_sl96\_ll48\_pl24\_dm512\_nh8\_el2\_dl1\_df2048\_fc1\_ebtimeF\_dtTrue\_Exp\_0>>>>>>>>>>>>>>>>>>>>>>>>>>

<class '\_\_main\_\_.Dataset\_ETT\_hour'>

1

train 8521

<class '\_\_main\_\_.Dataset\_ETT\_hour'>

1

val 2857

<class '\_\_main\_\_.Dataset\_ETT\_hour'>

1

test 2857

iters: 100, epoch: 1 | loss: 0.6335336

speed: 0.1138s/iter; left time: 291.5119s

iters: 200, epoch: 1 | loss: 0.5553221

speed: 0.1152s/iter; left time: 283.5327s

Epoch: 1 cost time: 30.676679611206055

Epoch: 1, Steps: 266 | Train Loss: 0.6390590 Vali Loss: 0.8220220 Test Loss: 1.3035027

Validation loss decreased (inf --> 0.822022). Saving model ...

Updating learning rate to 0.0001

iters: 100, epoch: 2 | loss: 0.4042947

speed: 0.2850s/iter; left time: 654.1143s

iters: 200, epoch: 2 | loss: 0.3481728

speed: 0.1102s/iter; left time: 241.8083s

Epoch: 2 cost time: 30.02719759941101

Epoch: 2, Steps: 266 | Train Loss: 0.4075235 Vali Loss: 0.5602482 Test Loss: 1.0478240

Validation loss decreased (0.822022 --> 0.560248). Saving model ...

Updating learning rate to 5e-05

iters: 100, epoch: 3 | loss: 0.2377186

speed: 0.2786s/iter; left time: 565.3264s

iters: 200, epoch: 3 | loss: 0.1575893

speed: 0.1090s/iter; left time: 210.2382s

Epoch: 3 cost time: 29.844740629196167

Epoch: 3, Steps: 266 | Train Loss: 0.1840849 Vali Loss: 0.4769020 Test Loss: 1.0084003

Validation loss decreased (0.560248 --> 0.476902). Saving model ...

Updating learning rate to 2.5e-05

iters: 100, epoch: 4 | loss: 0.1502729

speed: 0.2872s/iter; left time: 506.2815s

iters: 200, epoch: 4 | loss: 0.1227046

speed: 0.1102s/iter; left time: 183.3280s

Epoch: 4 cost time: 29.95903706550598

Epoch: 4, Steps: 266 | Train Loss: 0.1342701 Vali Loss: 0.4939230 Test Loss: 1.0824943

EarlyStopping counter: 1 out of 3

Updating learning rate to 1.25e-05

iters: 100, epoch: 5 | loss: 0.1325952

speed: 0.2754s/iter; left time: 412.3302s

iters: 200, epoch: 5 | loss: 0.0743745

speed: 0.1095s/iter; left time: 153.0375s

Epoch: 5 cost time: 29.810214519500732

Epoch: 5, Steps: 266 | Train Loss: 0.1237182 Vali Loss: 0.4967688 Test Loss: 1.0496173

EarlyStopping counter: 2 out of 3

Updating learning rate to 6.25e-06

iters: 100, epoch: 6 | loss: 0.1313470

speed: 0.2749s/iter; left time: 338.3475s

iters: 200, epoch: 6 | loss: 0.0946942

speed: 0.1096s/iter; left time: 123.9255s

Epoch: 6 cost time: 29.816944122314453

Epoch: 6, Steps: 266 | Train Loss: 0.1180177 Vali Loss: 0.5072237 Test Loss: 1.0532235

EarlyStopping counter: 3 out of 3

Early stopping

2

>>>>>>>testing : ETTh1\_96\_24\_Autoformer\_ETTh1\_ftM\_sl96\_ll48\_pl24\_dm512\_nh8\_el2\_dl1\_df2048\_fc1\_ebtimeF\_dtTrue\_Exp\_0<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<

<class '\_\_main\_\_.Dataset\_ETT\_hour'>

1

test 2857

test shape: (89, 32, 24, 7) (89, 32, 24, 7)

test shape: (2848, 24, 7) (2848, 24, 7)

mse:1.0084002017974854, mae:0.6462659239768982

3

图表, 直方图

描述已自动生成

图表, 折线图, 直方图

描述已自动生成

图表, 直方图

描述已自动生成

图片包含 游戏机

描述已自动生成

图表, 直方图

描述已自动生成