# Keras neural network ouput for 101 customers

Stateful = true, reLU and return\_sequences = False

customer ID 1015193

length 3478

number of iteration 1

(3189, 1, 3)

(3189,)

Epoch 1/10

- 18s - loss: 0.0328

Epoch 2/10

- 18s - loss: 0.0347

Epoch 3/10

- 18s - loss: 0.0335

Epoch 4/10

- 18s - loss: 0.0331

Epoch 5/10

- 18s - loss: 0.0341

Epoch 6/10

- 18s - loss: 0.0333

Epoch 7/10

- 19s - loss: 0.0341

Epoch 8/10

- 18s - loss: 0.0338

Epoch 9/10

- 18s - loss: 0.0334

Epoch 10/10

- 17s - loss: 0.0338

Train Score: 0.20 MSE (0.45 RMSE)

Test Score: 0.19 MSE (0.44 RMSE)

unscaled test score 422.496340 MSE

customer ID 1069732

length 3192

number of iteration 2

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0051

Epoch 2/10

- 16s - loss: 0.0043

Epoch 3/10

- 17s - loss: 0.0040

Epoch 4/10

- 17s - loss: 0.0041

Epoch 5/10

- 16s - loss: 0.0038

Epoch 6/10

- 16s - loss: 0.0039

Epoch 7/10

- 16s - loss: 0.0039

Epoch 8/10

- 16s - loss: 0.0040

Epoch 9/10

- 17s - loss: 0.0037

Epoch 10/10

- 17s - loss: 0.0039

Train Score: 0.01 MSE (0.07 RMSE)

Test Score: 0.26 MSE (0.51 RMSE)

unscaled test score -0.945579 MSE

customer ID 1080321

length 3192

number of iteration 3

(2919, 1, 3)

(2919,)

Epoch 1/10

- 19s - loss: 0.0079

Epoch 2/10

- 18s - loss: 0.0063

Epoch 3/10

- 17s - loss: 0.0063

Epoch 4/10

- 17s - loss: 0.0061

Epoch 5/10

- 17s - loss: 0.0063

Epoch 6/10

- 16s - loss: 0.0060

Epoch 7/10

- 16s - loss: 0.0063

Epoch 8/10

- 16s - loss: 0.0062

Epoch 9/10

- 16s - loss: 0.0058

Epoch 10/10

- 18s - loss: 0.0058

Train Score: 0.10 MSE (0.31 RMSE)

Test Score: 0.35 MSE (0.59 RMSE)

unscaled test score 27.422489 MSE

customer ID 1119250

length 3192

number of iteration 4

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0034

Epoch 2/10

- 16s - loss: 0.0021

Epoch 3/10

- 17s - loss: 0.0018

Epoch 4/10

- 16s - loss: 0.0017

Epoch 5/10

- 16s - loss: 0.0017

Epoch 6/10

- 16s - loss: 0.0016

Epoch 7/10

- 16s - loss: 0.0015

Epoch 8/10

- 16s - loss: 0.0014

Epoch 9/10

- 16s - loss: 0.0014

Epoch 10/10

- 16s - loss: 0.0013

Train Score: 0.00 MSE (0.07 RMSE)

Test Score: 0.23 MSE (0.48 RMSE)

unscaled test score 0.614896 MSE

customer ID 1136123

length 3193

number of iteration 5

(2920, 1, 3)

(2920,)

Epoch 1/10

- 17s - loss: 0.0083

Epoch 2/10

- 18s - loss: 0.0069

Epoch 3/10

- 18s - loss: 0.0067

Epoch 4/10

- 19s - loss: 0.0067

Epoch 5/10

- 19s - loss: 0.0066

Epoch 6/10

- 18s - loss: 0.0064

Epoch 7/10

- 19s - loss: 0.0064

Epoch 8/10

- 19s - loss: 0.0063

Epoch 9/10

- 17s - loss: 0.0060

Epoch 10/10

- 18s - loss: 0.0062

Train Score: 0.06 MSE (0.24 RMSE)

Test Score: 0.15 MSE (0.39 RMSE)

unscaled test score -42.703840 MSE

customer ID 1139640

length 3192

number of iteration 6

(2919, 1, 3)

(2919,)

Epoch 1/10

- 17s - loss: 0.0122

Epoch 2/10

- 19s - loss: 0.0108

Epoch 3/10

- 16s - loss: 0.0104

Epoch 4/10

- 17s - loss: 0.0100

Epoch 5/10

- 18s - loss: 0.0099

Epoch 6/10

- 17s - loss: 0.0101

Epoch 7/10

- 17s - loss: 0.0095

Epoch 8/10

- 16s - loss: 0.0106

Epoch 9/10

- 17s - loss: 0.0099

Epoch 10/10

- 17s - loss: 0.0105

Train Score: 0.16 MSE (0.41 RMSE)

Test Score: 0.17 MSE (0.42 RMSE)

unscaled test score 2.436391 MSE

customer ID 1140689

length 3192

number of iteration 7

(2919, 1, 3)

(2919,)

Epoch 1/10

- 20s - loss: 0.0055

Epoch 2/10

- 18s - loss: 0.0047

Epoch 3/10

- 18s - loss: 0.0046

Epoch 4/10

- 18s - loss: 0.0044

Epoch 5/10

- 16s - loss: 0.0048

Epoch 6/10

- 17s - loss: 0.0044

Epoch 7/10

- 18s - loss: 0.0045

Epoch 8/10

- 17s - loss: 0.0039

Epoch 9/10

- 18s - loss: 0.0044

Epoch 10/10

- 19s - loss: 0.0040

Train Score: 0.02 MSE (0.15 RMSE)

Test Score: 0.35 MSE (0.59 RMSE)

unscaled test score -0.067651 MSE

customer ID 1146580

length 3192

number of iteration 8

(2919, 1, 3)

(2919,)

Epoch 1/10

- 20s - loss: 0.0068

Epoch 2/10

- 20s - loss: 0.0059

Epoch 3/10

- 19s - loss: 0.0056

Epoch 4/10

- 19s - loss: 0.0055

Epoch 5/10

- 17s - loss: 0.0054

Epoch 6/10

- 19s - loss: 0.0049

Epoch 7/10

- 17s - loss: 0.0047

Epoch 8/10

- 18s - loss: 0.0048

Epoch 9/10

- 19s - loss: 0.0046

Epoch 10/10

- 17s - loss: 0.0045

Train Score: 0.07 MSE (0.27 RMSE)

Test Score: 0.35 MSE (0.60 RMSE)

unscaled test score 0.210986 MSE

customer ID 1167669

length 3193

number of iteration 9

(2920, 1, 3)

(2920,)

Epoch 1/10

- 19s - loss: 0.0243

Epoch 2/10

- 18s - loss: 0.0226

Epoch 3/10

- 19s - loss: 0.0219

Epoch 4/10

- 18s - loss: 0.0222

Epoch 5/10

- 20s - loss: 0.0216

Epoch 6/10

- 20s - loss: 0.0218

Epoch 7/10

- 17s - loss: 0.0226

Epoch 8/10

- 18s - loss: 0.0221

Epoch 9/10

- 17s - loss: 0.0230

Epoch 10/10

- 18s - loss: 0.0222

Train Score: 0.21 MSE (0.45 RMSE)

Test Score: 0.26 MSE (0.51 RMSE)

unscaled test score 19.884405 MSE

customer ID 1172447

length 3192

number of iteration 10

(2919, 1, 3)

(2919,)

Epoch 1/10

- 17s - loss: 0.0055

Epoch 2/10

- 17s - loss: 0.0055

Epoch 3/10

- 17s - loss: 0.0052

Epoch 4/10

- 16s - loss: 0.0053

Epoch 5/10

- 18s - loss: 0.0051

Epoch 6/10

- 18s - loss: 0.0048

Epoch 7/10

- 17s - loss: 0.0050

Epoch 8/10

- 18s - loss: 0.0049

Epoch 9/10

- 19s - loss: 0.0049

Epoch 10/10

- 17s - loss: 0.0049

Train Score: 0.08 MSE (0.28 RMSE)

Test Score: 0.28 MSE (0.53 RMSE)

unscaled test score 0.972820 MSE

customer ID 1186000

length 3194

number of iteration 11

(2921, 1, 3)

(2921,)

Epoch 1/10

- 17s - loss: 0.0257

Epoch 2/10

- 16s - loss: 0.0268

Epoch 3/10

- 16s - loss: 0.0269

Epoch 4/10

- 16s - loss: 0.0268

Epoch 5/10

- 16s - loss: 0.0275

Epoch 6/10

- 16s - loss: 0.0277

Epoch 7/10

- 16s - loss: 0.0277

Epoch 8/10

- 16s - loss: 0.0277

Epoch 9/10

- 16s - loss: 0.0270

Epoch 10/10

- 16s - loss: 0.0265

Train Score: 0.20 MSE (0.45 RMSE)

Test Score: 0.13 MSE (0.37 RMSE)

unscaled test score 56.366556 MSE

customer ID 1215523

length 3192

number of iteration 12

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0025

Epoch 2/10

- 16s - loss: 0.0018

Epoch 3/10

- 16s - loss: 0.0017

Epoch 4/10

- 16s - loss: 0.0015

Epoch 5/10

- 16s - loss: 0.0015

Epoch 6/10

- 16s - loss: 0.0013

Epoch 7/10

- 16s - loss: 0.0014

Epoch 8/10

- 16s - loss: 0.0014

Epoch 9/10

- 16s - loss: 0.0013

Epoch 10/10

- 16s - loss: 0.0013

Train Score: 0.07 MSE (0.26 RMSE)

Test Score: 0.13 MSE (0.35 RMSE)

unscaled test score 0.562846 MSE

customer ID 1233503

length 3192

number of iteration 13

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0140

Epoch 2/10

- 16s - loss: 0.0122

Epoch 3/10

- 16s - loss: 0.0116

Epoch 4/10

- 16s - loss: 0.0113

Epoch 5/10

- 16s - loss: 0.0114

Epoch 6/10

- 16s - loss: 0.0113

Epoch 7/10

- 16s - loss: 0.0119

Epoch 8/10

- 16s - loss: 0.0112

Epoch 9/10

- 16s - loss: 0.0109

Epoch 10/10

- 16s - loss: 0.0111

Train Score: 0.18 MSE (0.43 RMSE)

Test Score: 0.29 MSE (0.54 RMSE)

unscaled test score 178.777483 MSE

customer ID 1345685

length 3192

number of iteration 14

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0280

Epoch 2/10

- 16s - loss: 0.0281

Epoch 3/10

- 16s - loss: 0.0272

Epoch 4/10

- 16s - loss: 0.0275

Epoch 5/10

- 16s - loss: 0.0287

Epoch 6/10

- 16s - loss: 0.0265

Epoch 7/10

- 16s - loss: 0.0278

Epoch 8/10

- 16s - loss: 0.0264

Epoch 9/10

- 16s - loss: 0.0276

Epoch 10/10

- 16s - loss: 0.0279

Train Score: 0.21 MSE (0.45 RMSE)

Test Score: 0.16 MSE (0.41 RMSE)

unscaled test score 75.930397 MSE

customer ID 1351530

length 3192

number of iteration 15

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0038

Epoch 2/10

- 16s - loss: 0.0031

Epoch 3/10

- 16s - loss: 0.0031

Epoch 4/10

- 16s - loss: 0.0029

Epoch 5/10

- 16s - loss: 0.0030

Epoch 6/10

- 16s - loss: 0.0029

Epoch 7/10

- 16s - loss: 0.0029

Epoch 8/10

- 16s - loss: 0.0030

Epoch 9/10

- 16s - loss: 0.0028

Epoch 10/10

- 16s - loss: 0.0029

Train Score: 0.00 MSE (0.05 RMSE)

Test Score: 0.25 MSE (0.50 RMSE)

unscaled test score -0.925893 MSE

customer ID 1385090

length 3193

number of iteration 16

(2920, 1, 3)

(2920,)

Epoch 1/10

- 16s - loss: 0.0184

Epoch 2/10

- 16s - loss: 0.0155

Epoch 3/10

- 16s - loss: 0.0144

Epoch 4/10

- 16s - loss: 0.0141

Epoch 5/10

- 16s - loss: 0.0139

Epoch 6/10

- 16s - loss: 0.0134

Epoch 7/10

- 16s - loss: 0.0136

Epoch 8/10

- 16s - loss: 0.0135

Epoch 9/10

- 16s - loss: 0.0137

Epoch 10/10

- 16s - loss: 0.0135

Train Score: 0.04 MSE (0.21 RMSE)

Test Score: 0.28 MSE (0.53 RMSE)

unscaled test score -836.935533 MSE

customer ID 1411373

length 3193

number of iteration 17

(2920, 1, 3)

(2920,)

Epoch 1/10

- 16s - loss: 0.0100

Epoch 2/10

- 16s - loss: 0.0091

Epoch 3/10

- 16s - loss: 0.0090

Epoch 4/10

- 16s - loss: 0.0090

Epoch 5/10

- 16s - loss: 0.0089

Epoch 6/10

- 16s - loss: 0.0094

Epoch 7/10

- 16s - loss: 0.0090

Epoch 8/10

- 16s - loss: 0.0090

Epoch 9/10

- 16s - loss: 0.0086

Epoch 10/10

- 16s - loss: 0.0088

Train Score: 0.08 MSE (0.29 RMSE)

Test Score: 0.36 MSE (0.60 RMSE)

unscaled test score 451.893306 MSE

customer ID 1431777

length 3202

number of iteration 18

(2926, 1, 3)

(2926,)

Epoch 1/10

- 16s - loss: 0.0242

Epoch 2/10

- 16s - loss: 0.0224

Epoch 3/10

- 16s - loss: 0.0221

Epoch 4/10

- 16s - loss: 0.0223

Epoch 5/10

- 16s - loss: 0.0228

Epoch 6/10

- 16s - loss: 0.0224

Epoch 7/10

- 16s - loss: 0.0225

Epoch 8/10

- 16s - loss: 0.0224

Epoch 9/10

- 16s - loss: 0.0221

Epoch 10/10

- 16s - loss: 0.0226

Train Score: 0.19 MSE (0.44 RMSE)

Test Score: 0.22 MSE (0.47 RMSE)

unscaled test score 150.220378 MSE

customer ID 1434120

length 3198

number of iteration 19

(2922, 1, 3)

(2922,)

Epoch 1/10

- 16s - loss: 0.0150

Epoch 2/10

- 16s - loss: 0.0144

Epoch 3/10

- 16s - loss: 0.0142

Epoch 4/10

- 16s - loss: 0.0142

Epoch 5/10

- 16s - loss: 0.0141

Epoch 6/10

- 16s - loss: 0.0139

Epoch 7/10

- 16s - loss: 0.0140

Epoch 8/10

- 16s - loss: 0.0135

Epoch 9/10

- 16s - loss: 0.0136

Epoch 10/10

- 16s - loss: 0.0136

Train Score: 0.05 MSE (0.22 RMSE)

Test Score: 0.20 MSE (0.44 RMSE)

unscaled test score -34.199475 MSE

customer ID 1462982

length 3192

number of iteration 20

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0110

Epoch 2/10

- 16s - loss: 0.0104

Epoch 3/10

- 16s - loss: 0.0102

Epoch 4/10

- 16s - loss: 0.0099

Epoch 5/10

- 16s - loss: 0.0101

Epoch 6/10

- 16s - loss: 0.0103

Epoch 7/10

- 16s - loss: 0.0098

Epoch 8/10

- 16s - loss: 0.0100

Epoch 9/10

- 16s - loss: 0.0103

Epoch 10/10

- 16s - loss: 0.0098

Train Score: 0.19 MSE (0.43 RMSE)

Test Score: 0.29 MSE (0.54 RMSE)

unscaled test score 2.693225 MSE

customer ID 1532549

length 3192

number of iteration 21

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0045

Epoch 2/10

- 16s - loss: 0.0033

Epoch 3/10

- 16s - loss: 0.0034

Epoch 4/10

- 16s - loss: 0.0032

Epoch 5/10

- 16s - loss: 0.0031

Epoch 6/10

- 16s - loss: 0.0032

Epoch 7/10

- 16s - loss: 0.0031

Epoch 8/10

- 16s - loss: 0.0032

Epoch 9/10

- 16s - loss: 0.0031

Epoch 10/10

- 16s - loss: 0.0029

Train Score: 0.32 MSE (0.56 RMSE)

Test Score: 0.32 MSE (0.56 RMSE)

unscaled test score 92.498456 MSE

customer ID 1555678

length 3192

number of iteration 22

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0064

Epoch 2/10

- 16s - loss: 0.0030

Epoch 3/10

- 16s - loss: 0.0026

Epoch 4/10

- 16s - loss: 0.0026

Epoch 5/10

- 16s - loss: 0.0031

Epoch 6/10

- 16s - loss: 0.0028

Epoch 7/10

- 16s - loss: 0.0026

Epoch 8/10

- 16s - loss: 0.0026

Epoch 9/10

- 16s - loss: 0.0026

Epoch 10/10

- 16s - loss: 0.0028

Train Score: 0.00 MSE (0.06 RMSE)

Test Score: 0.42 MSE (0.64 RMSE)

unscaled test score -28.270824 MSE

customer ID 1563037

length 3192

number of iteration 23

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0094

Epoch 2/10

- 16s - loss: 0.0066

Epoch 3/10

- 16s - loss: 0.0069

Epoch 4/10

- 16s - loss: 0.0070

Epoch 5/10

- 16s - loss: 0.0067

Epoch 6/10

- 16s - loss: 0.0068

Epoch 7/10

- 16s - loss: 0.0064

Epoch 8/10

- 16s - loss: 0.0064

Epoch 9/10

- 16s - loss: 0.0064

Epoch 10/10

- 16s - loss: 0.0064

Train Score: 0.10 MSE (0.31 RMSE)

Test Score: 0.09 MSE (0.30 RMSE)

unscaled test score 49.312224 MSE

customer ID 1571329

length 3192

number of iteration 24

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0372

Epoch 2/10

- 16s - loss: 0.0281

Epoch 3/10

- 16s - loss: 0.0284

Epoch 4/10

- 16s - loss: 0.0293

Epoch 5/10

- 16s - loss: 0.0272

Epoch 6/10

- 16s - loss: 0.0276

Epoch 7/10

- 16s - loss: 0.0273

Epoch 8/10

- 16s - loss: 0.0273

Epoch 9/10

- 16s - loss: 0.0274

Epoch 10/10

- 16s - loss: 0.0272

Train Score: 0.22 MSE (0.47 RMSE)

Test Score: 0.24 MSE (0.49 RMSE)

unscaled test score 95.589718 MSE

customer ID 1595164

length 3192

number of iteration 25

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0091

Epoch 2/10

- 16s - loss: 0.0073

Epoch 3/10

- 16s - loss: 0.0071

Epoch 4/10

- 16s - loss: 0.0068

Epoch 5/10

- 16s - loss: 0.0067

Epoch 6/10

- 16s - loss: 0.0065

Epoch 7/10

- 16s - loss: 0.0066

Epoch 8/10

- 16s - loss: 0.0068

Epoch 9/10

- 16s - loss: 0.0067

Epoch 10/10

- 16s - loss: 0.0066

Train Score: 0.02 MSE (0.14 RMSE)

Test Score: 0.40 MSE (0.64 RMSE)

unscaled test score -3.545398 MSE

customer ID 1595166

length 3192

number of iteration 26

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0160

Epoch 2/10

- 16s - loss: 0.0147

Epoch 3/10

- 16s - loss: 0.0145

Epoch 4/10

- 16s - loss: 0.0141

Epoch 5/10

- 16s - loss: 0.0141

Epoch 6/10

- 16s - loss: 0.0140

Epoch 7/10

- 16s - loss: 0.0134

Epoch 8/10

- 16s - loss: 0.0138

Epoch 9/10

- 16s - loss: 0.0140

Epoch 10/10

- 16s - loss: 0.0137

Train Score: 0.17 MSE (0.41 RMSE)

Test Score: 0.32 MSE (0.57 RMSE)

unscaled test score 40.377644 MSE

customer ID 1620518

length 3192

number of iteration 27

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0309

Epoch 2/10

- 16s - loss: 0.0290

Epoch 3/10

- 16s - loss: 0.0287

Epoch 4/10

- 16s - loss: 0.0278

Epoch 5/10

- 16s - loss: 0.0275

Epoch 6/10

- 16s - loss: 0.0273

Epoch 7/10

- 16s - loss: 0.0271

Epoch 8/10

- 16s - loss: 0.0276

Epoch 9/10

- 16s - loss: 0.0281

Epoch 10/10

- 16s - loss: 0.0276

Train Score: 0.27 MSE (0.52 RMSE)

Test Score: 0.31 MSE (0.56 RMSE)

unscaled test score 4.055416 MSE

customer ID 1645262

length 3192

number of iteration 28

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0101

Epoch 2/10

- 16s - loss: 0.0090

Epoch 3/10

- 16s - loss: 0.0088

Epoch 4/10

- 16s - loss: 0.0091

Epoch 5/10

- 16s - loss: 0.0090

Epoch 6/10

- 16s - loss: 0.0087

Epoch 7/10

- 16s - loss: 0.0086

Epoch 8/10

- 16s - loss: 0.0087

Epoch 9/10

- 16s - loss: 0.0086

Epoch 10/10

- 16s - loss: 0.0090

Train Score: 0.19 MSE (0.44 RMSE)

Test Score: 0.35 MSE (0.59 RMSE)

unscaled test score 181.018744 MSE

customer ID 1674609

length 3192

number of iteration 29

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0123

Epoch 2/10

- 16s - loss: 0.0118

Epoch 3/10

- 16s - loss: 0.0110

Epoch 4/10

- 17s - loss: 0.0111

Epoch 5/10

- 16s - loss: 0.0114

Epoch 6/10

- 16s - loss: 0.0112

Epoch 7/10

- 16s - loss: 0.0110

Epoch 8/10

- 16s - loss: 0.0107

Epoch 9/10

- 16s - loss: 0.0111

Epoch 10/10

- 16s - loss: 0.0111

Train Score: 0.01 MSE (0.11 RMSE)

Test Score: 0.37 MSE (0.61 RMSE)

unscaled test score -3.070419 MSE

customer ID 1773891

length 3192

number of iteration 30

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0120

Epoch 2/10

- 16s - loss: 0.0115

Epoch 3/10

- 16s - loss: 0.0108

Epoch 4/10

- 16s - loss: 0.0107

Epoch 5/10

- 16s - loss: 0.0103

Epoch 6/10

- 16s - loss: 0.0106

Epoch 7/10

- 16s - loss: 0.0103

Epoch 8/10

- 16s - loss: 0.0101

Epoch 9/10

- 16s - loss: 0.0100

Epoch 10/10

- 16s - loss: 0.0101

Train Score: 0.16 MSE (0.40 RMSE)

Test Score: 0.36 MSE (0.60 RMSE)

unscaled test score 4.999213 MSE

customer ID 1810070

length 3192

number of iteration 31

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0218

Epoch 2/10

- 16s - loss: 0.0208

Epoch 3/10

- 16s - loss: 0.0206

Epoch 4/10

- 16s - loss: 0.0208

Epoch 5/10

- 16s - loss: 0.0202

Epoch 6/10

- 16s - loss: 0.0205

Epoch 7/10

- 16s - loss: 0.0205

Epoch 8/10

- 16s - loss: 0.0204

Epoch 9/10

- 16s - loss: 0.0201

Epoch 10/10

- 16s - loss: 0.0201

Train Score: 0.21 MSE (0.46 RMSE)

Test Score: 0.37 MSE (0.60 RMSE)

unscaled test score 295.781192 MSE

customer ID 1881607

length 3192

number of iteration 32

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0069

Epoch 2/10

- 16s - loss: 0.0058

Epoch 3/10

- 16s - loss: 0.0056

Epoch 4/10

- 16s - loss: 0.0057

Epoch 5/10

- 16s - loss: 0.0054

Epoch 6/10

- 16s - loss: 0.0054

Epoch 7/10

- 16s - loss: 0.0052

Epoch 8/10

- 16s - loss: 0.0053

Epoch 9/10

- 16s - loss: 0.0051

Epoch 10/10

- 16s - loss: 0.0051

Train Score: 0.02 MSE (0.14 RMSE)

Test Score: 0.40 MSE (0.63 RMSE)

unscaled test score -19.185640 MSE

customer ID 1895787

length 3192

number of iteration 33

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0059

Epoch 2/10

- 16s - loss: 0.0039

Epoch 3/10

- 16s - loss: 0.0031

Epoch 4/10

- 16s - loss: 0.0033

Epoch 5/10

- 16s - loss: 0.0031

Epoch 6/10

- 16s - loss: 0.0031

Epoch 7/10

- 16s - loss: 0.0032

Epoch 8/10

- 16s - loss: 0.0030

Epoch 9/10

- 16s - loss: 0.0030

Epoch 10/10

- 16s - loss: 0.0030

Train Score: 0.00 MSE (0.06 RMSE)

Test Score: 0.51 MSE (0.72 RMSE)

unscaled test score -3.267453 MSE

customer ID 1931318

length 3192

number of iteration 34

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0261

Epoch 2/10

- 16s - loss: 0.0215

Epoch 3/10

- 16s - loss: 0.0220

Epoch 4/10

- 16s - loss: 0.0220

Epoch 5/10

- 16s - loss: 0.0227

Epoch 6/10

- 16s - loss: 0.0243

Epoch 7/10

- 16s - loss: 0.0241

Epoch 8/10

- 16s - loss: 0.0243

Epoch 9/10

- 16s - loss: 0.0248

Epoch 10/10

- 16s - loss: 0.0236

Train Score: 0.28 MSE (0.53 RMSE)

Test Score: 0.29 MSE (0.54 RMSE)

unscaled test score 48.630489 MSE

customer ID 1934833

length 3192

number of iteration 35

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0020

Epoch 2/10

- 16s - loss: 0.0016

Epoch 3/10

- 16s - loss: 0.0016

Epoch 4/10

- 16s - loss: 0.0015

Epoch 5/10

- 16s - loss: 0.0017

Epoch 6/10

- 16s - loss: 0.0015

Epoch 7/10

- 16s - loss: 0.0016

Epoch 8/10

- 16s - loss: 0.0015

Epoch 9/10

- 16s - loss: 0.0016

Epoch 10/10

- 16s - loss: 0.0015

Train Score: 0.15 MSE (0.38 RMSE)

Test Score: 0.02 MSE (0.13 RMSE)

unscaled test score 0.507963 MSE

customer ID 1979527

length 3192

number of iteration 36

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0106

Epoch 2/10

- 16s - loss: 0.0087

Epoch 3/10

- 16s - loss: 0.0084

Epoch 4/10

- 16s - loss: 0.0082

Epoch 5/10

- 16s - loss: 0.0082

Epoch 6/10

- 16s - loss: 0.0085

Epoch 7/10

- 16s - loss: 0.0090

Epoch 8/10

- 16s - loss: 0.0083

Epoch 9/10

- 16s - loss: 0.0083

Epoch 10/10

- 16s - loss: 0.0084

Train Score: 0.20 MSE (0.45 RMSE)

Test Score: 0.12 MSE (0.35 RMSE)

unscaled test score 487.213139 MSE

customer ID 2034325

length 3193

number of iteration 37

(2920, 1, 3)

(2920,)

Epoch 1/10

- 16s - loss: 0.0106

Epoch 2/10

- 16s - loss: 0.0039

Epoch 3/10

- 16s - loss: 0.0037

Epoch 4/10

- 16s - loss: 0.0038

Epoch 5/10

- 16s - loss: 0.0037

Epoch 6/10

- 16s - loss: 0.0039

Epoch 7/10

- 16s - loss: 0.0039

Epoch 8/10

- 16s - loss: 0.0037

Epoch 9/10

- 16s - loss: 0.0046

Epoch 10/10

- 16s - loss: 0.0040

Train Score: 0.00 MSE (0.06 RMSE)

Test Score: 0.38 MSE (0.62 RMSE)

unscaled test score -36.965215 MSE

customer ID 2053220

length 3192

number of iteration 38

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0063

Epoch 2/10

- 16s - loss: 0.0051

Epoch 3/10

- 16s - loss: 0.0050

Epoch 4/10

- 16s - loss: 0.0048

Epoch 5/10

- 16s - loss: 0.0046

Epoch 6/10

- 16s - loss: 0.0045

Epoch 7/10

- 16s - loss: 0.0042

Epoch 8/10

- 16s - loss: 0.0044

Epoch 9/10

- 16s - loss: 0.0045

Epoch 10/10

- 16s - loss: 0.0042

Train Score: 0.08 MSE (0.28 RMSE)

Test Score: 0.36 MSE (0.60 RMSE)

unscaled test score 51.360102 MSE

customer ID 2062217

length 3194

number of iteration 39

(2920, 1, 3)

(2920,)

Epoch 1/10

- 16s - loss: 0.0043

Epoch 2/10

- 16s - loss: 0.0042

Epoch 3/10

- 16s - loss: 0.0043

Epoch 4/10

- 16s - loss: 0.0043

Epoch 5/10

- 16s - loss: 0.0041

Epoch 6/10

- 16s - loss: 0.0044

Epoch 7/10

- 16s - loss: 0.0043

Epoch 8/10

- 16s - loss: 0.0044

Epoch 9/10

- 16s - loss: 0.0041

Epoch 10/10

- 16s - loss: 0.0042

Train Score: 0.07 MSE (0.26 RMSE)

Test Score: 0.29 MSE (0.54 RMSE)

unscaled test score 122.915593 MSE

customer ID 2063988

length 3192

number of iteration 40

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0071

Epoch 2/10

- 16s - loss: 0.0062

Epoch 3/10

- 16s - loss: 0.0063

Epoch 4/10

- 16s - loss: 0.0062

Epoch 5/10

- 16s - loss: 0.0062

Epoch 6/10

- 16s - loss: 0.0060

Epoch 7/10

- 16s - loss: 0.0059

Epoch 8/10

- 16s - loss: 0.0058

Epoch 9/10

- 16s - loss: 0.0058

Epoch 10/10

- 16s - loss: 0.0057

Train Score: 0.17 MSE (0.41 RMSE)

Test Score: 0.30 MSE (0.55 RMSE)

unscaled test score 0.165456 MSE

customer ID 2069361

length 3199

number of iteration 41

(2926, 1, 3)

(2926,)

Epoch 1/10

- 16s - loss: 0.0056

Epoch 2/10

- 16s - loss: 0.0054

Epoch 3/10

- 16s - loss: 0.0052

Epoch 4/10

- 16s - loss: 0.0055

Epoch 5/10

- 16s - loss: 0.0051

Epoch 6/10

- 16s - loss: 0.0052

Epoch 7/10

- 16s - loss: 0.0053

Epoch 8/10

- 16s - loss: 0.0053

Epoch 9/10

- 16s - loss: 0.0051

Epoch 10/10

- 16s - loss: 0.0052

Train Score: 0.08 MSE (0.29 RMSE)

Test Score: 0.41 MSE (0.64 RMSE)

unscaled test score 30.272577 MSE

customer ID 2134196

length 3194

number of iteration 42

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0021

Epoch 2/10

- 16s - loss: 0.0010

Epoch 3/10

- 16s - loss: 9.6538e-04

Epoch 4/10

- 16s - loss: 0.0010

Epoch 5/10

- 16s - loss: 9.9247e-04

Epoch 6/10

- 16s - loss: 0.0010

Epoch 7/10

- 16s - loss: 9.7214e-04

Epoch 8/10

- 16s - loss: 9.3913e-04

Epoch 9/10

- 16s - loss: 0.0011

Epoch 10/10

- 16s - loss: 9.8696e-04

Train Score: 0.01 MSE (0.11 RMSE)

Test Score: 0.10 MSE (0.32 RMSE)

unscaled test score 0.550265 MSE

customer ID 2267185

length 3192

number of iteration 43

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 9.3076e-04

Epoch 2/10

- 16s - loss: 9.5671e-04

Epoch 3/10

- 16s - loss: 0.0011

Epoch 4/10

- 16s - loss: 9.7867e-04

Epoch 5/10

- 16s - loss: 9.6951e-04

Epoch 6/10

- 16s - loss: 0.0010

Epoch 7/10

- 16s - loss: 0.0010

Epoch 8/10

- 16s - loss: 9.0909e-04

Epoch 9/10

- 16s - loss: 9.9253e-04

Epoch 10/10

- 16s - loss: 9.2521e-04

Train Score: 0.00 MSE (0.02 RMSE)

Test Score: 0.16 MSE (0.40 RMSE)

unscaled test score 0.578873 MSE

customer ID 3447510

length 3192

number of iteration 44

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0101

Epoch 2/10

- 16s - loss: 0.0091

Epoch 3/10

- 16s - loss: 0.0090

Epoch 4/10

- 16s - loss: 0.0086

Epoch 5/10

- 16s - loss: 0.0088

Epoch 6/10

- 16s - loss: 0.0085

Epoch 7/10

- 16s - loss: 0.0085

Epoch 8/10

- 16s - loss: 0.0086

Epoch 9/10

- 16s - loss: 0.0086

Epoch 10/10

- 16s - loss: 0.0085

Train Score: 0.16 MSE (0.40 RMSE)

Test Score: 0.36 MSE (0.60 RMSE)

unscaled test score 238.234449 MSE

customer ID 3494047

length 3192

number of iteration 45

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0077

Epoch 2/10

- 16s - loss: 0.0075

Epoch 3/10

- 16s - loss: 0.0072

Epoch 4/10

- 16s - loss: 0.0074

Epoch 5/10

- 16s - loss: 0.0076

Epoch 6/10

- 16s - loss: 0.0071

Epoch 7/10

- 16s - loss: 0.0070

Epoch 8/10

- 16s - loss: 0.0072

Epoch 9/10

- 16s - loss: 0.0072

Epoch 10/10

- 16s - loss: 0.0069

Train Score: 0.09 MSE (0.30 RMSE)

Test Score: 0.16 MSE (0.40 RMSE)

unscaled test score 0.313465 MSE

customer ID 5045681

length 3192

number of iteration 46

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0098

Epoch 2/10

- 16s - loss: 0.0093

Epoch 3/10

- 16s - loss: 0.0094

Epoch 4/10

- 16s - loss: 0.0088

Epoch 5/10

- 16s - loss: 0.0089

Epoch 6/10

- 16s - loss: 0.0087

Epoch 7/10

- 16s - loss: 0.0092

Epoch 8/10

- 16s - loss: 0.0091

Epoch 9/10

- 16s - loss: 0.0089

Epoch 10/10

- 16s - loss: 0.0086

Train Score: 0.15 MSE (0.38 RMSE)

Test Score: 0.34 MSE (0.58 RMSE)

unscaled test score 154.097243 MSE

customer ID 5744792

length 3231

number of iteration 47

(2949, 1, 3)

(2949,)

Epoch 1/10

- 16s - loss: 0.0303

Epoch 2/10

- 16s - loss: 0.0274

Epoch 3/10

- 16s - loss: 0.0280

Epoch 4/10

- 16s - loss: 0.0278

Epoch 5/10

- 16s - loss: 0.0279

Epoch 6/10

- 16s - loss: 0.0276

Epoch 7/10

- 16s - loss: 0.0279

Epoch 8/10

- 16s - loss: 0.0278

Epoch 9/10

- 16s - loss: 0.0277

Epoch 10/10

- 16s - loss: 0.0279

Train Score: 0.05 MSE (0.21 RMSE)

Test Score: 0.33 MSE (0.58 RMSE)

unscaled test score -4.205249 MSE

customer ID 5851882

length 3194

number of iteration 48

(2921, 1, 3)

(2921,)

Epoch 1/10

- 16s - loss: 0.0138

Epoch 2/10

- 16s - loss: 0.0123

Epoch 3/10

- 16s - loss: 0.0122

Epoch 4/10

- 16s - loss: 0.0123

Epoch 5/10

- 16s - loss: 0.0122

Epoch 6/10

- 16s - loss: 0.0125

Epoch 7/10

- 16s - loss: 0.0122

Epoch 8/10

- 16s - loss: 0.0124

Epoch 9/10

- 16s - loss: 0.0123

Epoch 10/10

- 16s - loss: 0.0121

Train Score: 0.12 MSE (0.35 RMSE)

Test Score: 0.05 MSE (0.23 RMSE)

unscaled test score 2.575667 MSE

customer ID 6185266

length 3194

number of iteration 49

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0024

Epoch 2/10

- 16s - loss: 9.7277e-04

Epoch 3/10

- 16s - loss: 0.0010

Epoch 4/10

- 16s - loss: 9.9613e-04

Epoch 5/10

- 16s - loss: 9.8163e-04

Epoch 6/10

- 16s - loss: 0.0010

Epoch 7/10

- 16s - loss: 9.1361e-04

Epoch 8/10

- 16s - loss: 9.1140e-04

Epoch 9/10

- 16s - loss: 9.4147e-04

Epoch 10/10

- 16s - loss: 0.0010

Train Score: 0.05 MSE (0.23 RMSE)

Test Score: 0.11 MSE (0.33 RMSE)

unscaled test score 0.554330 MSE

customer ID 6400280

length 3193

number of iteration 50

(2920, 1, 3)

(2920,)

Epoch 1/10

- 16s - loss: 0.0157

Epoch 2/10

- 16s - loss: 0.0138

Epoch 3/10

- 16s - loss: 0.0139

Epoch 4/10

- 16s - loss: 0.0142

Epoch 5/10

- 16s - loss: 0.0140

Epoch 6/10

- 16s - loss: 0.0139

Epoch 7/10

- 16s - loss: 0.0140

Epoch 8/10

- 16s - loss: 0.0139

Epoch 9/10

- 16s - loss: 0.0144

Epoch 10/10

- 16s - loss: 0.0139

Train Score: 0.13 MSE (0.36 RMSE)

Test Score: 0.28 MSE (0.53 RMSE)

unscaled test score 221.635792 MSE

customer ID 6524818

length 3192

number of iteration 51

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0064

Epoch 2/10

- 16s - loss: 0.0034

Epoch 3/10

- 16s - loss: 0.0034

Epoch 4/10

- 16s - loss: 0.0034

Epoch 5/10

- 16s - loss: 0.0033

Epoch 6/10

- 16s - loss: 0.0035

Epoch 7/10

- 16s - loss: 0.0034

Epoch 8/10

- 16s - loss: 0.0032

Epoch 9/10

- 16s - loss: 0.0032

Epoch 10/10

- 16s - loss: 0.0033

Train Score: 0.00 MSE (0.06 RMSE)

Test Score: 0.38 MSE (0.61 RMSE)

unscaled test score -0.929760 MSE

customer ID 6769268

length 3192

number of iteration 52

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0255

Epoch 2/10

- 16s - loss: 0.0229

Epoch 3/10

- 16s - loss: 0.0215

Epoch 4/10

- 16s - loss: 0.0220

Epoch 5/10

- 16s - loss: 0.0218

Epoch 6/10

- 16s - loss: 0.0218

Epoch 7/10

- 16s - loss: 0.0218

Epoch 8/10

- 16s - loss: 0.0222

Epoch 9/10

- 16s - loss: 0.0216

Epoch 10/10

- 16s - loss: 0.0215

Train Score: 0.26 MSE (0.51 RMSE)

Test Score: 0.30 MSE (0.54 RMSE)

unscaled test score 3.010186 MSE

customer ID 6860001

length 3243

number of iteration 53

(2961, 1, 3)

(2961,)

Epoch 1/10

- 16s - loss: 0.0349

Epoch 2/10

- 16s - loss: 0.0367

Epoch 3/10

- 16s - loss: 0.0342

Epoch 4/10

- 16s - loss: 0.0346

Epoch 5/10

- 16s - loss: 0.0327

Epoch 6/10

- 16s - loss: 0.0337

Epoch 7/10

- 16s - loss: 0.0330

Epoch 8/10

- 16s - loss: 0.0316

Epoch 9/10

- 16s - loss: 0.0309

Epoch 10/10

- 16s - loss: 0.0331

Train Score: 0.23 MSE (0.48 RMSE)

Test Score: 0.17 MSE (0.41 RMSE)

unscaled test score 6438.640684 MSE

customer ID 7322690

length 3192

number of iteration 54

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0055

Epoch 2/10

- 16s - loss: 0.0053

Epoch 3/10

- 16s - loss: 0.0054

Epoch 4/10

- 16s - loss: 0.0053

Epoch 5/10

- 16s - loss: 0.0054

Epoch 6/10

- 16s - loss: 0.0056

Epoch 7/10

- 16s - loss: 0.0052

Epoch 8/10

- 16s - loss: 0.0053

Epoch 9/10

- 16s - loss: 0.0051

Epoch 10/10

- 16s - loss: 0.0050

Train Score: 0.03 MSE (0.18 RMSE)

Test Score: 0.34 MSE (0.58 RMSE)

unscaled test score -16.735589 MSE

customer ID 7370830

length 3202

number of iteration 55

(2929, 1, 3)

(2929,)

Epoch 1/10

- 17s - loss: 0.0142

Epoch 2/10

- 16s - loss: 0.0137

Epoch 3/10

- 16s - loss: 0.0131

Epoch 4/10

- 16s - loss: 0.0129

Epoch 5/10

- 16s - loss: 0.0125

Epoch 6/10

- 16s - loss: 0.0128

Epoch 7/10

- 16s - loss: 0.0126

Epoch 8/10

- 16s - loss: 0.0128

Epoch 9/10

- 16s - loss: 0.0128

Epoch 10/10

- 16s - loss: 0.0126

Train Score: 0.04 MSE (0.19 RMSE)

Test Score: 0.25 MSE (0.50 RMSE)

unscaled test score -130.525226 MSE

customer ID 7411081

length 3264

number of iteration 56

(2989, 1, 3)

(2989,)

Epoch 1/10

- 16s - loss: 0.0413

Epoch 2/10

- 16s - loss: 0.0406

Epoch 3/10

- 16s - loss: 0.0397

Epoch 4/10

- 16s - loss: 0.0395

Epoch 5/10

- 16s - loss: 0.0386

Epoch 6/10

- 16s - loss: 0.0397

Epoch 7/10

- 16s - loss: 0.0397

Epoch 8/10

- 16s - loss: 0.0391

Epoch 9/10

- 16s - loss: 0.0398

Epoch 10/10

- 16s - loss: 0.0400

Train Score: 0.23 MSE (0.48 RMSE)

Test Score: 0.14 MSE (0.38 RMSE)

unscaled test score 2011.912280 MSE

customer ID 7530072

length 3192

number of iteration 57

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0083

Epoch 2/10

- 16s - loss: 0.0078

Epoch 3/10

- 16s - loss: 0.0078

Epoch 4/10

- 16s - loss: 0.0079

Epoch 5/10

- 16s - loss: 0.0079

Epoch 6/10

- 16s - loss: 0.0077

Epoch 7/10

- 16s - loss: 0.0077

Epoch 8/10

- 16s - loss: 0.0078

Epoch 9/10

- 16s - loss: 0.0078

Epoch 10/10

- 16s - loss: 0.0077

Train Score: 0.26 MSE (0.51 RMSE)

Test Score: 0.31 MSE (0.56 RMSE)

unscaled test score 5.812898 MSE

customer ID 7772912

length 3192

number of iteration 58

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0069

Epoch 2/10

- 16s - loss: 0.0069

Epoch 3/10

- 16s - loss: 0.0067

Epoch 4/10

- 16s - loss: 0.0067

Epoch 5/10

- 16s - loss: 0.0066

Epoch 6/10

- 16s - loss: 0.0064

Epoch 7/10

- 16s - loss: 0.0066

Epoch 8/10

- 16s - loss: 0.0063

Epoch 9/10

- 16s - loss: 0.0063

Epoch 10/10

- 16s - loss: 0.0062

Train Score: 0.15 MSE (0.39 RMSE)

Test Score: 0.33 MSE (0.57 RMSE)

unscaled test score 1.408605 MSE

customer ID 7806949

length 3193

number of iteration 59

(2920, 1, 3)

(2920,)

Epoch 1/10

- 16s - loss: 0.0256

Epoch 2/10

- 16s - loss: 0.0252

Epoch 3/10

- 16s - loss: 0.0255

Epoch 4/10

- 16s - loss: 0.0257

Epoch 5/10

- 16s - loss: 0.0247

Epoch 6/10

- 16s - loss: 0.0255

Epoch 7/10

- 16s - loss: 0.0254

Epoch 8/10

- 16s - loss: 0.0256

Epoch 9/10

- 16s - loss: 0.0249

Epoch 10/10

- 16s - loss: 0.0249

Train Score: 0.17 MSE (0.41 RMSE)

Test Score: 0.17 MSE (0.41 RMSE)

unscaled test score 4.810751 MSE

customer ID 7819277

length 3192

number of iteration 60

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0038

Epoch 2/10

- 16s - loss: 0.0033

Epoch 3/10

- 16s - loss: 0.0033

Epoch 4/10

- 16s - loss: 0.0033

Epoch 5/10

- 16s - loss: 0.0035

Epoch 6/10

- 16s - loss: 0.0033

Epoch 7/10

- 16s - loss: 0.0033

Epoch 8/10

- 16s - loss: 0.0035

Epoch 9/10

- 16s - loss: 0.0033

Epoch 10/10

- 16s - loss: 0.0033

Train Score: 0.00 MSE (0.06 RMSE)

Test Score: 0.46 MSE (0.68 RMSE)

unscaled test score -0.803587 MSE

customer ID 7945906

length 3199

number of iteration 61

(2925, 1, 3)

(2925,)

Epoch 1/10

- 16s - loss: 0.0106

Epoch 2/10

- 16s - loss: 0.0083

Epoch 3/10

- 16s - loss: 0.0080

Epoch 4/10

- 16s - loss: 0.0078

Epoch 5/10

- 16s - loss: 0.0076

Epoch 6/10

- 16s - loss: 0.0078

Epoch 7/10

- 16s - loss: 0.0080

Epoch 8/10

- 16s - loss: 0.0076

Epoch 9/10

- 16s - loss: 0.0076

Epoch 10/10

- 16s - loss: 0.0076

Train Score: 0.03 MSE (0.17 RMSE)

Test Score: 0.18 MSE (0.42 RMSE)

unscaled test score -40.735851 MSE

customer ID 7983956

length 3196

number of iteration 62

(2923, 1, 3)

(2923,)

Epoch 1/10

- 16s - loss: 0.0335

Epoch 2/10

- 16s - loss: 0.0297

Epoch 3/10

- 16s - loss: 0.0283

Epoch 4/10

- 16s - loss: 0.0271

Epoch 5/10

- 16s - loss: 0.0267

Epoch 6/10

- 16s - loss: 0.0275

Epoch 7/10

- 16s - loss: 0.0271

Epoch 8/10

- 16s - loss: 0.0269

Epoch 9/10

- 16s - loss: 0.0275

Epoch 10/10

- 16s - loss: 0.0276

Train Score: 0.25 MSE (0.50 RMSE)

Test Score: 0.17 MSE (0.41 RMSE)

unscaled test score 1379.819066 MSE

customer ID 7987099

length 3195

number of iteration 63

(2922, 1, 3)

(2922,)

Epoch 1/10

- 16s - loss: 0.0132

Epoch 2/10

- 16s - loss: 0.0128

Epoch 3/10

- 16s - loss: 0.0131

Epoch 4/10

- 16s - loss: 0.0130

Epoch 5/10

- 16s - loss: 0.0128

Epoch 6/10

- 16s - loss: 0.0134

Epoch 7/10

- 16s - loss: 0.0131

Epoch 8/10

- 16s - loss: 0.0129

Epoch 9/10

- 16s - loss: 0.0133

Epoch 10/10

- 16s - loss: 0.0132

Train Score: 0.04 MSE (0.19 RMSE)

Test Score: 0.33 MSE (0.58 RMSE)

unscaled test score -18.639447 MSE

customer ID 8056102

length 3291

number of iteration 64

(3017, 1, 3)

(3017,)

Epoch 1/10

- 16s - loss: 0.0457

Epoch 2/10

- 16s - loss: 0.0444

Epoch 3/10

- 16s - loss: 0.0429

Epoch 4/10

- 16s - loss: 0.0435

Epoch 5/10

- 17s - loss: 0.0432

Epoch 6/10

- 16s - loss: 0.0428

Epoch 7/10

- 16s - loss: 0.0431

Epoch 8/10

- 16s - loss: 0.0428

Epoch 9/10

- 16s - loss: 0.0429

Epoch 10/10

- 16s - loss: 0.0431

Train Score: 0.25 MSE (0.50 RMSE)

Test Score: 0.17 MSE (0.41 RMSE)

unscaled test score 383.675664 MSE

customer ID 8056412

length 3196

number of iteration 65

(2923, 1, 3)

(2923,)

Epoch 1/10

- 16s - loss: 0.0082

Epoch 2/10

- 16s - loss: 0.0078

Epoch 3/10

- 16s - loss: 0.0078

Epoch 4/10

- 16s - loss: 0.0078

Epoch 5/10

- 16s - loss: 0.0082

Epoch 6/10

- 16s - loss: 0.0078

Epoch 7/10

- 16s - loss: 0.0078

Epoch 8/10

- 16s - loss: 0.0078

Epoch 9/10

- 16s - loss: 0.0076

Epoch 10/10

- 16s - loss: 0.0078

Train Score: 0.10 MSE (0.32 RMSE)

Test Score: 0.28 MSE (0.53 RMSE)

unscaled test score 344.567665 MSE

customer ID 8069905

length 3192

number of iteration 66

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0233

Epoch 2/10

- 16s - loss: 0.0222

Epoch 3/10

- 16s - loss: 0.0222

Epoch 4/10

- 16s - loss: 0.0231

Epoch 5/10

- 16s - loss: 0.0239

Epoch 6/10

- 16s - loss: 0.0242

Epoch 7/10

- 16s - loss: 0.0227

Epoch 8/10

- 16s - loss: 0.0231

Epoch 9/10

- 16s - loss: 0.0224

Epoch 10/10

- 16s - loss: 0.0221

Train Score: 0.21 MSE (0.46 RMSE)

Test Score: 0.12 MSE (0.35 RMSE)

unscaled test score 66.333558 MSE

customer ID 8097194

length 3195

number of iteration 67

(2920, 1, 3)

(2920,)

Epoch 1/10

- 16s - loss: 0.0077

Epoch 2/10

- 16s - loss: 0.0066

Epoch 3/10

- 16s - loss: 0.0064

Epoch 4/10

- 16s - loss: 0.0067

Epoch 5/10

- 16s - loss: 0.0065

Epoch 6/10

- 16s - loss: 0.0064

Epoch 7/10

- 16s - loss: 0.0063

Epoch 8/10

- 16s - loss: 0.0061

Epoch 9/10

- 16s - loss: 0.0062

Epoch 10/10

- 16s - loss: 0.0059

Train Score: 0.02 MSE (0.15 RMSE)

Test Score: 0.13 MSE (0.36 RMSE)

unscaled test score -281.000063 MSE

customer ID 8119511

length 3195

number of iteration 68

(2921, 1, 3)

(2921,)

Epoch 1/10

- 16s - loss: 0.0071

Epoch 2/10

- 16s - loss: 0.0071

Epoch 3/10

- 16s - loss: 0.0073

Epoch 4/10

- 16s - loss: 0.0071

Epoch 5/10

- 16s - loss: 0.0073

Epoch 6/10

- 16s - loss: 0.0071

Epoch 7/10

- 16s - loss: 0.0070

Epoch 8/10

- 16s - loss: 0.0070

Epoch 9/10

- 16s - loss: 0.0070

Epoch 10/10

- 16s - loss: 0.0070

Train Score: 0.01 MSE (0.09 RMSE)

Test Score: 0.15 MSE (0.39 RMSE)

unscaled test score -216.346893 MSE

customer ID 8131406

length 3210

number of iteration 69

(2937, 1, 3)

(2937,)

Epoch 1/10

- 16s - loss: 0.0288

Epoch 2/10

- 16s - loss: 0.0273

Epoch 3/10

- 16s - loss: 0.0275

Epoch 4/10

- 16s - loss: 0.0274

Epoch 5/10

- 16s - loss: 0.0269

Epoch 6/10

- 16s - loss: 0.0272

Epoch 7/10

- 16s - loss: 0.0274

Epoch 8/10

- 16s - loss: 0.0274

Epoch 9/10

- 16s - loss: 0.0269

Epoch 10/10

- 16s - loss: 0.0268

Train Score: 0.06 MSE (0.25 RMSE)

Test Score: 0.27 MSE (0.52 RMSE)

unscaled test score -5.156709 MSE

customer ID 8186928

length 3192

number of iteration 70

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0346

Epoch 2/10

- 16s - loss: 0.0334

Epoch 3/10

- 16s - loss: 0.0329

Epoch 4/10

- 16s - loss: 0.0316

Epoch 5/10

- 16s - loss: 0.0312

Epoch 6/10

- 16s - loss: 0.0309

Epoch 7/10

- 16s - loss: 0.0315

Epoch 8/10

- 16s - loss: 0.0310

Epoch 9/10

- 16s - loss: 0.0309

Epoch 10/10

- 16s - loss: 0.0315

Train Score: 0.18 MSE (0.42 RMSE)

Test Score: 0.23 MSE (0.48 RMSE)

unscaled test score 37273.584470 MSE

customer ID 8191735

length 3201

number of iteration 71

(2928, 1, 3)

(2928,)

Epoch 1/10

- 16s - loss: 0.0237

Epoch 2/10

- 16s - loss: 0.0232

Epoch 3/10

- 16s - loss: 0.0227

Epoch 4/10

- 16s - loss: 0.0225

Epoch 5/10

- 16s - loss: 0.0225

Epoch 6/10

- 16s - loss: 0.0225

Epoch 7/10

- 16s - loss: 0.0223

Epoch 8/10

- 16s - loss: 0.0223

Epoch 9/10

- 16s - loss: 0.0222

Epoch 10/10

- 16s - loss: 0.0222

Train Score: 0.29 MSE (0.53 RMSE)

Test Score: 0.16 MSE (0.40 RMSE)

unscaled test score 552.940660 MSE

customer ID 8206104

length 3192

number of iteration 72

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0273

Epoch 2/10

- 16s - loss: 0.0273

Epoch 3/10

- 16s - loss: 0.0279

Epoch 4/10

- 16s - loss: 0.0271

Epoch 5/10

- 16s - loss: 0.0278

Epoch 6/10

- 16s - loss: 0.0278

Epoch 7/10

- 16s - loss: 0.0271

Epoch 8/10

- 16s - loss: 0.0272

Epoch 9/10

- 16s - loss: 0.0273

Epoch 10/10

- 15s - loss: 0.0267

Train Score: 0.28 MSE (0.53 RMSE)

Test Score: 0.30 MSE (0.55 RMSE)

unscaled test score 65.992745 MSE

customer ID 8223963

length 3205

number of iteration 73

(2932, 1, 3)

(2932,)

Epoch 1/10

- 16s - loss: 0.0177

Epoch 2/10

- 16s - loss: 0.0174

Epoch 3/10

- 16s - loss: 0.0170

Epoch 4/10

- 16s - loss: 0.0170

Epoch 5/10

- 16s - loss: 0.0170

Epoch 6/10

- 16s - loss: 0.0166

Epoch 7/10

- 16s - loss: 0.0169

Epoch 8/10

- 16s - loss: 0.0169

Epoch 9/10

- 16s - loss: 0.0170

Epoch 10/10

- 16s - loss: 0.0169

Train Score: 0.18 MSE (0.43 RMSE)

Test Score: 0.35 MSE (0.59 RMSE)

unscaled test score 45.681209 MSE

customer ID 8276366

length 3195

number of iteration 74

(2922, 1, 3)

(2922,)

Epoch 1/10

- 16s - loss: 0.0247

Epoch 2/10

- 16s - loss: 0.0243

Epoch 3/10

- 16s - loss: 0.0246

Epoch 4/10

- 16s - loss: 0.0244

Epoch 5/10

- 16s - loss: 0.0244

Epoch 6/10

- 16s - loss: 0.0245

Epoch 7/10

- 16s - loss: 0.0241

Epoch 8/10

- 16s - loss: 0.0242

Epoch 9/10

- 16s - loss: 0.0242

Epoch 10/10

- 16s - loss: 0.0242

Train Score: 0.06 MSE (0.25 RMSE)

Test Score: 0.39 MSE (0.63 RMSE)

unscaled test score 0.051021 MSE

customer ID 8285861

length 3194

number of iteration 75

(2921, 1, 3)

(2921,)

Epoch 1/10

- 16s - loss: 0.0113

Epoch 2/10

- 16s - loss: 0.0109

Epoch 3/10

- 16s - loss: 0.0105

Epoch 4/10

- 16s - loss: 0.0103

Epoch 5/10

- 16s - loss: 0.0103

Epoch 6/10

- 17s - loss: 0.0103

Epoch 7/10

- 16s - loss: 0.0102

Epoch 8/10

- 16s - loss: 0.0103

Epoch 9/10

- 16s - loss: 0.0104

Epoch 10/10

- 16s - loss: 0.0103

Train Score: 0.06 MSE (0.24 RMSE)

Test Score: 0.33 MSE (0.57 RMSE)

unscaled test score 221.777181 MSE

customer ID 8344620

length 3193

number of iteration 76

(2920, 1, 3)

(2920,)

Epoch 1/10

- 16s - loss: 0.0064

Epoch 2/10

- 16s - loss: 0.0058

Epoch 3/10

- 16s - loss: 0.0058

Epoch 4/10

- 16s - loss: 0.0058

Epoch 5/10

- 16s - loss: 0.0057

Epoch 6/10

- 16s - loss: 0.0056

Epoch 7/10

- 16s - loss: 0.0058

Epoch 8/10

- 16s - loss: 0.0057

Epoch 9/10

- 16s - loss: 0.0061

Epoch 10/10

- 16s - loss: 0.0057

Train Score: 0.04 MSE (0.20 RMSE)

Test Score: 0.34 MSE (0.58 RMSE)

unscaled test score -6.779765 MSE

customer ID 8367884

length 3192

number of iteration 77

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0070

Epoch 2/10

- 16s - loss: 0.0066

Epoch 3/10

- 16s - loss: 0.0064

Epoch 4/10

- 16s - loss: 0.0063

Epoch 5/10

- 16s - loss: 0.0065

Epoch 6/10

- 16s - loss: 0.0060

Epoch 7/10

- 16s - loss: 0.0059

Epoch 8/10

- 16s - loss: 0.0062

Epoch 9/10

- 16s - loss: 0.0060

Epoch 10/10

- 16s - loss: 0.0058

Train Score: 0.03 MSE (0.18 RMSE)

Test Score: 0.34 MSE (0.59 RMSE)

unscaled test score -19.465167 MSE

customer ID 8369976

length 3192

number of iteration 78

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0071

Epoch 2/10

- 16s - loss: 0.0045

Epoch 3/10

- 16s - loss: 0.0042

Epoch 4/10

- 16s - loss: 0.0047

Epoch 5/10

- 16s - loss: 0.0043

Epoch 6/10

- 15s - loss: 0.0041

Epoch 7/10

- 16s - loss: 0.0041

Epoch 8/10

- 16s - loss: 0.0040

Epoch 9/10

- 16s - loss: 0.0041

Epoch 10/10

- 16s - loss: 0.0041

Train Score: 0.00 MSE (0.07 RMSE)

Test Score: 0.40 MSE (0.63 RMSE)

unscaled test score -18.881551 MSE

customer ID 8380120

length 3196

number of iteration 79

(2923, 1, 3)

(2923,)

Epoch 1/10

- 16s - loss: 0.0262

Epoch 2/10

- 16s - loss: 0.0241

Epoch 3/10

- 16s - loss: 0.0250

Epoch 4/10

- 16s - loss: 0.0241

Epoch 5/10

- 16s - loss: 0.0238

Epoch 6/10

- 16s - loss: 0.0238

Epoch 7/10

- 16s - loss: 0.0234

Epoch 8/10

- 16s - loss: 0.0238

Epoch 9/10

- 16s - loss: 0.0235

Epoch 10/10

- 16s - loss: 0.0233

Train Score: 0.19 MSE (0.44 RMSE)

Test Score: 0.32 MSE (0.56 RMSE)

unscaled test score 363.817060 MSE

customer ID 8392722

length 3193

number of iteration 80

(2920, 1, 3)

(2920,)

Epoch 1/10

- 16s - loss: 0.0274

Epoch 2/10

- 16s - loss: 0.0266

Epoch 3/10

- 16s - loss: 0.0265

Epoch 4/10

- 16s - loss: 0.0264

Epoch 5/10

- 16s - loss: 0.0263

Epoch 6/10

- 16s - loss: 0.0276

Epoch 7/10

- 16s - loss: 0.0260

Epoch 8/10

- 16s - loss: 0.0265

Epoch 9/10

- 16s - loss: 0.0267

Epoch 10/10

- 16s - loss: 0.0266

Train Score: 0.23 MSE (0.48 RMSE)

Test Score: 0.20 MSE (0.45 RMSE)

unscaled test score 2941.738933 MSE

customer ID 8436150

length 3195

number of iteration 81

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0088

Epoch 2/10

- 16s - loss: 0.0082

Epoch 3/10

- 16s - loss: 0.0085

Epoch 4/10

- 16s - loss: 0.0081

Epoch 5/10

- 16s - loss: 0.0081

Epoch 6/10

- 16s - loss: 0.0081

Epoch 7/10

- 16s - loss: 0.0082

Epoch 8/10

- 16s - loss: 0.0085

Epoch 9/10

- 16s - loss: 0.0080

Epoch 10/10

- 16s - loss: 0.0080

Train Score: 0.01 MSE (0.09 RMSE)

Test Score: 0.15 MSE (0.39 RMSE)

unscaled test score -15.780056 MSE

customer ID 8459916

length 3738

number of iteration 82

(3440, 1, 3)

(3440,)

Epoch 1/10

- 19s - loss: 0.0452

Epoch 2/10

- 18s - loss: 0.0427

Epoch 3/10

- 18s - loss: 0.0429

Epoch 4/10

- 18s - loss: 0.0424

Epoch 5/10

- 18s - loss: 0.0426

Epoch 6/10

- 18s - loss: 0.0424

Epoch 7/10

- 18s - loss: 0.0426

Epoch 8/10

- 19s - loss: 0.0424

Epoch 9/10

- 18s - loss: 0.0426

Epoch 10/10

- 18s - loss: 0.0426

Train Score: 0.14 MSE (0.37 RMSE)

Test Score: 0.11 MSE (0.33 RMSE)

unscaled test score 1481.585535 MSE

customer ID 8468052

length 3192

number of iteration 83

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0041

Epoch 2/10

- 16s - loss: 0.0035

Epoch 3/10

- 16s - loss: 0.0035

Epoch 4/10

- 16s - loss: 0.0035

Epoch 5/10

- 16s - loss: 0.0034

Epoch 6/10

- 16s - loss: 0.0037

Epoch 7/10

- 16s - loss: 0.0035

Epoch 8/10

- 16s - loss: 0.0034

Epoch 9/10

- 16s - loss: 0.0035

Epoch 10/10

- 16s - loss: 0.0034

Train Score: 0.00 MSE (0.06 RMSE)

Test Score: 0.41 MSE (0.64 RMSE)

unscaled test score -0.084032 MSE

customer ID 8485682

length 3192

number of iteration 84

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0056

Epoch 2/10

- 16s - loss: 0.0045

Epoch 3/10

- 16s - loss: 0.0043

Epoch 4/10

- 16s - loss: 0.0044

Epoch 5/10

- 16s - loss: 0.0043

Epoch 6/10

- 16s - loss: 0.0041

Epoch 7/10

- 16s - loss: 0.0042

Epoch 8/10

- 16s - loss: 0.0038

Epoch 9/10

- 16s - loss: 0.0040

Epoch 10/10

- 16s - loss: 0.0040

Train Score: 0.06 MSE (0.25 RMSE)

Test Score: 0.09 MSE (0.30 RMSE)

unscaled test score -6.609777 MSE

customer ID 8491232

length 3192

number of iteration 85

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0064

Epoch 2/10

- 16s - loss: 0.0061

Epoch 3/10

- 16s - loss: 0.0059

Epoch 4/10

- 16s - loss: 0.0057

Epoch 5/10

- 16s - loss: 0.0057

Epoch 6/10

- 16s - loss: 0.0057

Epoch 7/10

- 16s - loss: 0.0057

Epoch 8/10

- 16s - loss: 0.0058

Epoch 9/10

- 16s - loss: 0.0061

Epoch 10/10

- 16s - loss: 0.0056

Train Score: 0.01 MSE (0.08 RMSE)

Test Score: 0.41 MSE (0.64 RMSE)

unscaled test score -0.629593 MSE

customer ID 8529930

length 3194

number of iteration 86

(2921, 1, 3)

(2921,)

Epoch 1/10

- 16s - loss: 0.0281

Epoch 2/10

- 15s - loss: 0.0265

Epoch 3/10

- 16s - loss: 0.0268

Epoch 4/10

- 16s - loss: 0.0272

Epoch 5/10

- 16s - loss: 0.0270

Epoch 6/10

- 16s - loss: 0.0270

Epoch 7/10

- 16s - loss: 0.0266

Epoch 8/10

- 16s - loss: 0.0270

Epoch 9/10

- 16s - loss: 0.0268

Epoch 10/10

- 16s - loss: 0.0263

Train Score: 0.23 MSE (0.48 RMSE)

Test Score: 0.21 MSE (0.46 RMSE)

unscaled test score 171.846749 MSE

customer ID 8542090

length 3193

number of iteration 87

(2920, 1, 3)

(2920,)

Epoch 1/10

- 16s - loss: 0.0151

Epoch 2/10

- 16s - loss: 0.0145

Epoch 3/10

- 16s - loss: 0.0143

Epoch 4/10

- 16s - loss: 0.0148

Epoch 5/10

- 16s - loss: 0.0144

Epoch 6/10

- 16s - loss: 0.0145

Epoch 7/10

- 16s - loss: 0.0144

Epoch 8/10

- 16s - loss: 0.0142

Epoch 9/10

- 16s - loss: 0.0144

Epoch 10/10

- 16s - loss: 0.0145

Train Score: 0.23 MSE (0.48 RMSE)

Test Score: 0.30 MSE (0.55 RMSE)

unscaled test score 22.632478 MSE

customer ID 8600643

length 3194

number of iteration 88

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0158

Epoch 2/10

- 16s - loss: 0.0152

Epoch 3/10

- 16s - loss: 0.0153

Epoch 4/10

- 16s - loss: 0.0153

Epoch 5/10

- 16s - loss: 0.0150

Epoch 6/10

- 16s - loss: 0.0154

Epoch 7/10

- 16s - loss: 0.0151

Epoch 8/10

- 16s - loss: 0.0155

Epoch 9/10

- 16s - loss: 0.0155

Epoch 10/10

- 16s - loss: 0.0150

Train Score: 0.10 MSE (0.32 RMSE)

Test Score: 0.06 MSE (0.23 RMSE)

unscaled test score 5.552270 MSE

customer ID 8665982

length 3192

number of iteration 89

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0060

Epoch 2/10

- 16s - loss: 0.0051

Epoch 3/10

- 16s - loss: 0.0055

Epoch 4/10

- 16s - loss: 0.0052

Epoch 5/10

- 16s - loss: 0.0054

Epoch 6/10

- 16s - loss: 0.0055

Epoch 7/10

- 16s - loss: 0.0055

Epoch 8/10

- 15s - loss: 0.0055

Epoch 9/10

- 16s - loss: 0.0054

Epoch 10/10

- 16s - loss: 0.0052

Train Score: 0.02 MSE (0.15 RMSE)

Test Score: 0.18 MSE (0.43 RMSE)

unscaled test score -155.478415 MSE

customer ID 8690251

length 3195

number of iteration 90

(2922, 1, 3)

(2922,)

Epoch 1/10

- 16s - loss: 0.0303

Epoch 2/10

- 16s - loss: 0.0289

Epoch 3/10

- 16s - loss: 0.0287

Epoch 4/10

- 16s - loss: 0.0291

Epoch 5/10

- 16s - loss: 0.0287

Epoch 6/10

- 16s - loss: 0.0284

Epoch 7/10

- 16s - loss: 0.0290

Epoch 8/10

- 16s - loss: 0.0286

Epoch 9/10

- 16s - loss: 0.0286

Epoch 10/10

- 16s - loss: 0.0283

Train Score: 0.24 MSE (0.49 RMSE)

Test Score: 0.32 MSE (0.57 RMSE)

unscaled test score 2151.466284 MSE

customer ID 9049053

length 3192

number of iteration 91

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0071

Epoch 2/10

- 16s - loss: 0.0071

Epoch 3/10

- 16s - loss: 0.0071

Epoch 4/10

- 16s - loss: 0.0065

Epoch 5/10

- 16s - loss: 0.0064

Epoch 6/10

- 16s - loss: 0.0062

Epoch 7/10

- 16s - loss: 0.0063

Epoch 8/10

- 16s - loss: 0.0062

Epoch 9/10

- 16s - loss: 0.0063

Epoch 10/10

- 16s - loss: 0.0062

Train Score: 0.10 MSE (0.32 RMSE)

Test Score: 0.38 MSE (0.61 RMSE)

unscaled test score 0.385030 MSE

customer ID 9346899

length 3193

number of iteration 92

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0058

Epoch 2/10

- 16s - loss: 0.0040

Epoch 3/10

- 16s - loss: 0.0036

Epoch 4/10

- 16s - loss: 0.0036

Epoch 5/10

- 16s - loss: 0.0036

Epoch 6/10

- 16s - loss: 0.0034

Epoch 7/10

- 16s - loss: 0.0033

Epoch 8/10

- 16s - loss: 0.0033

Epoch 9/10

- 16s - loss: 0.0031

Epoch 10/10

- 16s - loss: 0.0030

Train Score: 0.34 MSE (0.59 RMSE)

Test Score: 0.33 MSE (0.58 RMSE)

unscaled test score 84.202004 MSE

customer ID 9574816

length 3192

number of iteration 93

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0327

Epoch 2/10

- 16s - loss: 0.0287

Epoch 3/10

- 16s - loss: 0.0276

Epoch 4/10

- 16s - loss: 0.0273

Epoch 5/10

- 15s - loss: 0.0267

Epoch 6/10

- 16s - loss: 0.0264

Epoch 7/10

- 16s - loss: 0.0274

Epoch 8/10

- 16s - loss: 0.0263

Epoch 9/10

- 16s - loss: 0.0268

Epoch 10/10

- 16s - loss: 0.0267

Train Score: 0.24 MSE (0.49 RMSE)

Test Score: 0.08 MSE (0.29 RMSE)

unscaled test score 36.930722 MSE

customer ID 9706542

length 3192

number of iteration 94

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0067

Epoch 2/10

- 16s - loss: 0.0061

Epoch 3/10

- 16s - loss: 0.0060

Epoch 4/10

- 16s - loss: 0.0062

Epoch 5/10

- 16s - loss: 0.0059

Epoch 6/10

- 16s - loss: 0.0061

Epoch 7/10

- 16s - loss: 0.0059

Epoch 8/10

- 16s - loss: 0.0060

Epoch 9/10

- 16s - loss: 0.0061

Epoch 10/10

- 16s - loss: 0.0060

Train Score: 0.15 MSE (0.39 RMSE)

Test Score: 0.37 MSE (0.61 RMSE)

unscaled test score 1952.143358 MSE

customer ID 9890599

length 3196

number of iteration 95

(2923, 1, 3)

(2923,)

Epoch 1/10

- 16s - loss: 0.0273

Epoch 2/10

- 16s - loss: 0.0256

Epoch 3/10

- 16s - loss: 0.0254

Epoch 4/10

- 16s - loss: 0.0253

Epoch 5/10

- 15s - loss: 0.0253

Epoch 6/10

- 16s - loss: 0.0247

Epoch 7/10

- 16s - loss: 0.0250

Epoch 8/10

- 16s - loss: 0.0251

Epoch 9/10

- 16s - loss: 0.0250

Epoch 10/10

- 16s - loss: 0.0254

Train Score: 0.21 MSE (0.46 RMSE)

Test Score: 0.24 MSE (0.49 RMSE)

unscaled test score 14.170641 MSE

customer ID 9895000

length 3195

number of iteration 96

(2922, 1, 3)

(2922,)

Epoch 1/10

- 16s - loss: 0.0249

Epoch 2/10

- 16s - loss: 0.0247

Epoch 3/10

- 16s - loss: 0.0245

Epoch 4/10

- 16s - loss: 0.0249

Epoch 5/10

- 16s - loss: 0.0242

Epoch 6/10

- 16s - loss: 0.0243

Epoch 7/10

- 16s - loss: 0.0242

Epoch 8/10

- 16s - loss: 0.0242

Epoch 9/10

- 16s - loss: 0.0245

Epoch 10/10

- 16s - loss: 0.0242

Train Score: 0.23 MSE (0.48 RMSE)

Test Score: 0.27 MSE (0.52 RMSE)

unscaled test score 65.271197 MSE

customer ID 9934723

length 3194

number of iteration 97

(2920, 1, 3)

(2920,)

Epoch 1/10

- 16s - loss: 0.0072

Epoch 2/10

- 16s - loss: 0.0069

Epoch 3/10

- 16s - loss: 0.0069

Epoch 4/10

- 16s - loss: 0.0069

Epoch 5/10

- 16s - loss: 0.0071

Epoch 6/10

- 16s - loss: 0.0069

Epoch 7/10

- 16s - loss: 0.0070

Epoch 8/10

- 16s - loss: 0.0067

Epoch 9/10

- 16s - loss: 0.0071

Epoch 10/10

- 16s - loss: 0.0070

Train Score: 0.06 MSE (0.25 RMSE)

Test Score: 0.07 MSE (0.26 RMSE)

unscaled test score -105.357017 MSE

customer ID 9977120

length 3192

number of iteration 98

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0350

Epoch 2/10

- 16s - loss: 0.0349

Epoch 3/10

- 16s - loss: 0.0342

Epoch 4/10

- 16s - loss: 0.0339

Epoch 5/10

- 16s - loss: 0.0327

Epoch 6/10

- 16s - loss: 0.0338

Epoch 7/10

- 16s - loss: 0.0333

Epoch 8/10

- 16s - loss: 0.0334

Epoch 9/10

- 16s - loss: 0.0327

Epoch 10/10

- 16s - loss: 0.0317

Train Score: 0.20 MSE (0.45 RMSE)

Test Score: 0.18 MSE (0.42 RMSE)

unscaled test score 4520.119608 MSE

customer ID 9982280

length 3192

number of iteration 99

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0057

Epoch 2/10

- 16s - loss: 0.0051

Epoch 3/10

- 16s - loss: 0.0045

Epoch 4/10

- 16s - loss: 0.0045

Epoch 5/10

- 16s - loss: 0.0044

Epoch 6/10

- 16s - loss: 0.0044

Epoch 7/10

- 16s - loss: 0.0043

Epoch 8/10

- 16s - loss: 0.0044

Epoch 9/10

- 16s - loss: 0.0043

Epoch 10/10

- 16s - loss: 0.0044

Train Score: 0.01 MSE (0.10 RMSE)

Test Score: 0.20 MSE (0.45 RMSE)

unscaled test score -283.582469 MSE

customer ID 10005374

length 3192

number of iteration 100

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0055

Epoch 2/10

- 16s - loss: 0.0049

Epoch 3/10

- 16s - loss: 0.0049

Epoch 4/10

- 16s - loss: 0.0044

Epoch 5/10

- 16s - loss: 0.0047

Epoch 6/10

- 16s - loss: 0.0045

Epoch 7/10

- 16s - loss: 0.0046

Epoch 8/10

- 16s - loss: 0.0047

Epoch 9/10

- 16s - loss: 0.0046

Epoch 10/10

- 16s - loss: 0.0044

Train Score: 0.08 MSE (0.29 RMSE)

Test Score: 0.37 MSE (0.61 RMSE)

unscaled test score 1.147222 MSE

customer ID 10005722

length 3192

number of iteration 101

(2919, 1, 3)

(2919,)

Epoch 1/10

- 16s - loss: 0.0039

Epoch 2/10

- 16s - loss: 0.0030

Epoch 3/10

- 16s - loss: 0.0031

Epoch 4/10

- 16s - loss: 0.0030

Epoch 5/10

- 16s - loss: 0.0031

Epoch 6/10

- 16s - loss: 0.0031

Epoch 7/10

- 16s - loss: 0.0031

Epoch 8/10

- 16s - loss: 0.0030

Epoch 9/10

- 16s - loss: 0.0029

Epoch 10/10

- 16s - loss: 0.0029

Train Score: 0.00 MSE (0.06 RMSE)

Test Score: 0.16 MSE (0.40 RMSE)

unscaled test score -1.892725 MSE

CPU times: user 10h 50min 7s, sys: 4h 39min 48s, total: 15h 29min 55s

Wall time: 4h 38min 35s

In [12]:

## .