**XGBOOST：**

-----1 iteration xgboost Training Finish & result-----

Root Mean Squared Error: 0.8899

R2 score: 0.9367

-----2 iteration xgboost Training Finish & result-----

Root Mean Squared Error: 0.4234

R2 score: 0.9830

-----3 iteration xgboost Training Finish & result-----

Root Mean Squared Error: 0.4476

R2 score: 0.9813

-----4 iteration xgboost Training Finish & result-----

Root Mean Squared Error: 0.4973

R2 score: 0.9805

-----5 iteration xgboost Training Finish & result-----

Root Mean Squared Error: 0.3997

R2 score: 0.9851

-----====final xgboost result===-----

Root Mean Squared Error: 0.562

R2 score: 0.97203

预测结果：（已插入到表格中）

4.175665

4.949427

6.2867208

8.3011055

11.387775

13.996691

14.6171

15.266945

15.357019

15.099132

15.362256

15.243338

15.2384405

15.417084

14.759393

14.520168

13.113031

12.626144

12.753339

12.346506

9.849594

8.249987

8.255524

1.8296254

2.8766873

2.6770356

2.716813

2.951035

3.1233082

4.0291862

3.0394075

3.7648811

3.975474

3.4371877

3.0469198

3.2177584

3.0634742

2.9022012

2.6790226

2.734209

2.8028197

1.7635156

1.9007977

1.4565561

1.6778498

0.6113174

**Neural network**

----1 iteration of NN ----

---NN Train---

Root Mean Squared Error: 0.815

R2 score: 0.93966

Mean Absolute Deviation: 2.884

---NN Test---

Root Mean Squared Error: 0.997

R2 score: 0.92433

Mean Absolute Deviation: 3.135

----2 iteration of NN ----

---NN Train---

Root Mean Squared Error: 0.871

R2 score: 0.93549

Mean Absolute Deviation: 2.966

---NN Test---

Root Mean Squared Error: 0.782

R2 score: 0.93916

Mean Absolute Deviation: 2.807

----3 iteration of NN ----

---NN Train---

Root Mean Squared Error: 0.860

R2 score: 0.93713

Mean Absolute Deviation: 2.976

---NN Test---

Root Mean Squared Error: 0.830

R2 score: 0.93162

Mean Absolute Deviation: 2.771

----4 iteration of NN ----

---NN Train---

Root Mean Squared Error: 0.858

R2 score: 0.93659

Mean Absolute Deviation: 2.949

---NN Test---

Root Mean Squared Error: 0.838

R2 score: 0.93430

Mean Absolute Deviation: 2.879

----5 iteration of NN ----

---NN Train---

Root Mean Squared Error: 0.866

R2 score: 0.93190

Mean Absolute Deviation: 2.900

---NN Test---

Root Mean Squared Error: 0.807

R2 score: 0.95043

Mean Absolute Deviation: 3.075

--- NN final result---

Root Mean Squared Error: 0.854

R2 score: 0.93617

预测结果：（已插入到表格中）

0.5928061

1.3523569

1.8120346

4.7930875

8.696885

13.451079

15.525882

17.83219

16.940815

20.31766

17.657057

15.998835

18.803156

15.893438

15.054514

11.720134

10.102025

9.436948

9.108513

7.79999

5.413924

4.497576

3.987128

0.43621948

0.02601861

-0.04491411

0.14305142

-0.05693221

0.03214326

0.08035183

0.17206773

0.28404948

0.14731516

0.06982796

-0.08364144

-0.3473659

-0.44060373

-0.24981375

-0.34335017

-0.12189983

-0.40649313

-0.18051605

0.25573194

0.21627484

-0.22852986

-0.05548176

**SVR：**

----1 iteration of SVR ----

---SVR Train---

Root Mean Squared Error: 0.575

R2 score: 0.96998

Mean Absolute Deviation: 0.284

---SVR Test---

Root Mean Squared Error: 0.936

R2 score: 0.93341

Mean Absolute Deviation: 0.618

----2 iteration of SVR ----

---SVR Train---

Root Mean Squared Error: 0.673

R2 score: 0.96155

Mean Absolute Deviation: 0.362

---SVR Test---

Root Mean Squared Error: 0.621

R2 score: 0.96166

Mean Absolute Deviation: 0.306

----3 iteration of SVR ----

---SVR Train---

Root Mean Squared Error: 0.680

R2 score: 0.96073

Mean Absolute Deviation: 0.370

---SVR Test---

Root Mean Squared Error: 0.589

R2 score: 0.96556

Mean Absolute Deviation: 0.276

----4 iteration of SVR ----

---SVR Train---

Root Mean Squared Error: 0.680

R2 score: 0.96017

Mean Absolute Deviation: 0.365

---SVR Test---

Root Mean Squared Error: 0.587

R2 score: 0.96771

Mean Absolute Deviation: 0.296

----5 iteration of SVR ----

---SVR Train---

Root Mean Squared Error: 0.699

R2 score: 0.95563

Mean Absolute Deviation: 0.374

---SVR Test---

Root Mean Squared Error: 0.493

R2 score: 0.98151

Mean Absolute Deviation: 0.258

--- SVR final result---

Root Mean Squared Error: 0.663

R2 score: 0.96158

预测结果：（已插入到表格中）

-4.88547008

-1.47943014

2.15363441

6.11488444

11.12863895

17.41420725

19.98486525

23.92261384

23.19410364

26.84719545

24.33413871

23.50557948

25.29803726

16.0255871

15.50654901

10.2320199

6.20216619

1.15605601

-0.97848914

-4.43281233

-11.94679846

-17.74101518

-24.57432875

-16.1419159

-10.72611453

-10.42722235

-9.32946606

-6.34380097

-3.93505888

-0.11351935

-0.81417084

2.03519334

3.02613129

0.32874454

-0.47804119

-3.79036266

-3.98408902

-5.5699074

-8.5243166

-10.04928746

-12.41708721

-11.31583614

-10.8830236

-16.40358277

-26.06396155

-31.91621142