Application

Beginning

Data Extraction

Predicting future sales condition

Picking out the needed data

Reducing the number of independent variables

Synthesizing the three methods

XG Boosting

Sensitivity Analysis

Conclusion

Grey Relational Analysis

Information Entropy

Data Procurement

Principal Component Analysis

Principal Component Regression

Bayes Distinction

BP Neural Network Fitting

Optimization

Logistic Regression

Weight determination Technique

Basic Statistics

KNN

Modeling

Parameter: Unlock Phones：Yes <br>Google Play：Yes <br>Battery Type：Not Detachable <br>Display Resolution：1920x1080

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Camera Type：Front &amp; Back Camera

Camera：12.0MP

Recording Definition：1080P

Display Size：5.5

Front Camera：5MP

Brand Name：xiaomi

Touch Screen Type：Capacitive Screen

ROM：64G

RAM：4G

color：4GB 64GB Black 4GB 64GB Rose Gold 4GB 64GB Gold

Operation System：Android

Google Play：Yes

CPU：Octa Core

Battery Capacity(mAh)：3080mAh /3000 mAh

Unlock Phones：Yes

Display Resolution：1920x1080

Battery Type：Not Detachable

Feature：Gravity Response,GPRS,Touchscreen,Message,Bluetooth,VideoPlayer,HD Video Player,Wi-Fi,FingerprintRecognition,GPSNavigation,FrontCamera,Memory Card Slots,Email

SIM Card Quantity：Dual SIM Cards

Size：154.4x7.3x75.8mm

Highest Camera Resolution：12.0

Recording Definition：1080

Display Size：5.5

ROM：64

Brand Name：1

Touch Screen Type：1

RAM：4

Operation System：1

Battery Capacity：3080

color：0 0 1 1 0 0 0 0 0 0 0

Google Play：1

CPU：8

Unlock Phones：1

Battery Type：10

75.8

Display Resolution：1920

Dual Camera: 1

SIM Card Quantity：2

Feature：1 (Gravity Response)

1080

Size：154.4

7.3

1 (GPRS)

Front Camera: 1