

FUNCTION

LINEAR REGRESSION (CROSS VALIDATION 10)

=== Run information ===

Scheme:weka.classifiers.functions.LinearRegression -S 0 -R 1.0E-8

Relation: cpu

Instances: 209

Attributes: 7

MYCT

MMIN

MMAX

CACH

CHMIN

CHMAX

class

Test mode:10-fold cross-validation

=== Classifier model (full training set) ===

Linear Regression Model

class =

0.0491 * MYCT +

0.0152 * MMIN +

0.0056 * MMAX +

0.6298 * CACH +

1.4599 * CHMAX +

-56.075

Time taken to build model: 0 seconds

=== Cross-validation ===

=== Summary ===

Correlation coefficient 0.9012

Mean absolute error 41.0886

Root mean squared error 69.556

Relative absolute error 42.6943 %

Root relative squared error 43.2421 %

Total Number of Instances 209

LINEAR REGRESSION (CROSS VALIDATION 20)

=== Run information ===

Scheme:weka.classifiers.functions.LinearRegression -S 0 -R 1.0E-8

Relation: cpu

Instances: 209

Attributes: 7

MYCT

MMIN

MMAX

CACH

CHMIN

```

CHMAX
class
Test mode:20-fold cross-validation

=== Classifier model (full training set) ===

Linear Regression Model

class =

    0.0491 * MYCT +
    0.0152 * MMIN +
    0.0056 * MMAX +
    0.6298 * CACH +
    1.4599 * CHMAX +
    -56.075

Time taken to build model: 0 seconds

=== Cross-validation ===
=== Summary ===

Correlation coefficient          0.8991
Mean absolute error             41.4999
Root mean squared error        70.2517
Relative absolute error         43.0318 %
Root relative squared error     43.5631 %
Total Number of Instances      209

```

TREES

M5P (CROSS VALIDATION 10)

=== Run information ===

```

Scheme:weka.classifiers.trees.M5P -M 4.0
Relation:      cpu
Instances:     209
Attributes:    7
               MYCT
               MMIN
               MMAX
               CACH
               CHMIN
               CHMAX
               class
Test mode:10-fold cross-validation

=== Classifier model (full training set) ===

M5 pruned model tree:
(using smoothed linear models)

CHMIN <= 7.5 : LM1 (165/12.903%)
CHMIN > 7.5 :
|   MMAX <= 28000 :

```

```

|      |      MMAX <= 13240 :
|      |      |      CACH <= 81.5 : LM2 (6/18.551%)
|      |      |      CACH > 81.5 : LM3 (4/30.824%)
|      |      MMAX > 13240 : LM4 (11/24.185%)
|      MMAX > 28000 : LM5 (23/48.302%)

```

LM num: 1

```

class =
-0.0055 * MYCT
+ 0.0013 * MMIN
+ 0.0029 * MMAX
+ 0.8007 * CACH
+ 0.4015 * CHMAX
+ 11.0971

```

LM num: 2

```

class =
-1.0307 * MYCT
+ 0.0086 * MMIN
+ 0.0031 * MMAX
+ 0.7866 * CACH
- 2.4503 * CHMIN
+ 1.1597 * CHMAX
+ 70.8672

```

LM num: 3

```

class =
-1.1057 * MYCT
+ 0.0086 * MMIN
+ 0.0031 * MMAX
+ 0.7995 * CACH
- 2.4503 * CHMIN
+ 1.1597 * CHMAX
+ 83.0016

```

LM num: 4

```

class =
-0.8813 * MYCT
+ 0.0086 * MMIN
+ 0.0031 * MMAX
+ 0.6547 * CACH
- 2.3561 * CHMIN
+ 1.1597 * CHMAX
+ 82.5725

```

LM num: 5

```

class =
-0.4882 * MYCT
+ 0.0218 * MMIN
+ 0.003 * MMAX
+ 0.3865 * CACH
- 1.3252 * CHMIN
+ 3.3671 * CHMAX
- 51.8474

```

Number of Rules : 5

Time taken to build model: 0.02 seconds

=== Cross-validation ===

=== Summary ===

Correlation coefficient	0.9274
Mean absolute error	29.8309
Root mean squared error	60.7112
Relative absolute error	30.9967 %
Root relative squared error	37.7434 %
Total Number of Instances	209

M5P (CROSS VALIDATION 20)

=== Run information ===

Scheme:weka.classifiers.trees.M5P -M 4.0

Relation: cpu

Instances: 209

Attributes: 7

MYCT

MMIN

MMAX

CACH

CHMIN

CHMAX

class

Test mode:20-fold cross-validation

=== Classifier model (full training set) ===

M5 pruned model tree:

(using smoothed linear models)

CHMIN <= 7.5 : LM1 (165/12.903%)

CHMIN > 7.5 :

| MMAX <= 28000 :

| | MMAX <= 13240 :

| | | CACH <= 81.5 : LM2 (6/18.551%)

| | | CACH > 81.5 : LM3 (4/30.824%)

| | MMAX > 13240 : LM4 (11/24.185%)

| MMAX > 28000 : LM5 (23/48.302%)

LM num: 1

class =

-0.0055 * MYCT

+ 0.0013 * MMIN

+ 0.0029 * MMAX

+ 0.8007 * CACH

+ 0.4015 * CHMAX

+ 11.0971

LM num: 2

class =

-1.0307 * MYCT

+ 0.0086 * MMIN

```
+ 0.0031 * MMAX
+ 0.7866 * CACH
- 2.4503 * CHMIN
+ 1.1597 * CHMAX
+ 70.8672
```

LM num: 3

```
class =
-1.1057 * MYCT
+ 0.0086 * MMIN
+ 0.0031 * MMAX
+ 0.7995 * CACH
- 2.4503 * CHMIN
+ 1.1597 * CHMAX
+ 83.0016
```

LM num: 4

```
class =
-0.8813 * MYCT
+ 0.0086 * MMIN
+ 0.0031 * MMAX
+ 0.6547 * CACH
- 2.3561 * CHMIN
+ 1.1597 * CHMAX
+ 82.5725
```

LM num: 5

```
class =
-0.4882 * MYCT
+ 0.0218 * MMIN
+ 0.003 * MMAX
+ 0.3865 * CACH
- 1.3252 * CHMIN
+ 3.3671 * CHMAX
- 51.8474
```

Number of Rules : 5

Time taken to build model: 0.02 seconds

=== Cross-validation ===

=== Summary ===

Correlation coefficient	0.9278
Mean absolute error	30.6174
Root mean squared error	61.1547
Relative absolute error	31.7475 %
Root relative squared error	37.922 %
Total Number of Instances	209

Tree View

