

Inteligencia en Redes de Comunicaciones

Introducción a Weka

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El objetivo es poner en práctica los conocimientos de algoritmos de aprendizaje estudiados en teoría, empleando la herramienta Weka.

En primer lugar, descarga e instala Weka 3:

http://www.cs.waikato.ac.nz/ml/weka/index_downloading.html

Puedes bajar un ejecutable o un archivo zip con las clases Java. Si es el caso, descomprime el archivo ZIP y se creará un directorio llamado weka-3-X-X (donde 3-X-X es el número de versión disponible).

Para abrir la aplicación, cámbiate a ese directorio y ejecuta `java -jar weka.jar`.

El objetivo de este ejercicio es entrenar modelos con los conjuntos de datos propuestos (train) para obtener la predicción más precisa posible para los conjuntos de test correspondientes (test).

Luego compara el error obtenido utilizando la medida de error relativo:

$$\epsilon = \sum_{test\ set} \frac{|valor_{real} - valor_{predicho}|}{valor_{real}}$$

1. LOW BIRTH

1.1 lowbwt-train.arff

1.2 lowbwt-test.arff

1.3 Valores reales de test

2. CHOLESTEROL

2.1 cholesterol-train.txt

2.2 cholesterol-test.txt

2.3 Valores reales de test

3. SONAR

3.1 Sonar-train.txt

3.2 Sonar-test.txt

3.3 Valores reales de test

1. Low birth

The goal of this study was to identify risk factors associated with giving birth to a low birth weight baby (weighing less than 2500 grams).

Data were collected on 189 women, 59 of which had low birth weight babies and 130 of which had normal birth weight babies. Four variables which were thought to be of importance were age, weight of the subject at her last menstrual period, race, and the number of physician visits during the first trimester of pregnancy.

Low birth weight is an outcome that has been of concern to physicians for years. This is due to the fact that infant mortality rates and birth defect rates are very high for low birth weight babies. A woman's behavior during pregnancy (including diet, smoking habits, and receiving prenatal care) can greatly alter the chances of carrying the baby to term and, consequently, of delivering a baby of normal birth weight.

The variables identified in the code sheet given in the table have been shown to be associated with low birth weight in the obstetrical literature. The goal of the current study was to ascertain if these variables were important in the population being served by the medical center where the data were collected.

Table: Code Sheet for the Variables in the Low Birth Weight Data Set.

Columns	Variable	Abbreviation
2-4	Identification Code	ID
10	Low Birth Weight (0 = Birth Weight \geq 2500g, 1 = Birth Weight < 2500g)	LOW
17-18	Age of the Mother in Years	AGE
23-25	Weight in Pounds at the Last Menstrual Period	LWT
32	Race (1 = White, 2 = Black, 3 = Other)	RACE
40	Smoking Status During Pregnancy (1 = Yes, 0 = No)	SMOKE
48	History of Premature Labor (0 = None, 1 = One, etc.)	PTL
55	History of Hypertension (1 = Yes, 0 = No)	HT
61	Presence of Uterine Irritability (1 = Yes, 0 = No)	UI
67	Number of Physician Visits During the First Trimester (0 = None, 1 = One, 2 = Two, etc.)	FTV
73-76	Birth Weight in Grams	BWT

References:

1. Hosmer and Lemeshow, Applied Logistic Regression, Wiley, (1989).

As used by Kilpatrick, D. & Cameron-Jones, M. (1998). Numeric prediction using instance-based learning with encoding length selection. In Progress in Connectionist-Based Information Systems. Singapore: Springer-Verlag.

1.1 lowbwt-train.arff

```
@relation 'lowbwt'
@attribute LOW { 0, 1}
@attribute AGE real
@attribute LWT real
@attribute RACE { 2, 3, 1}
@attribute SMOKE { 0, 1}
@attribute PTL { 0, 1, 2, 3}
@attribute HT { 0, 1}
@attribute UI { 1, 0}
@attribute FTV { 0, 3, 1, 2, 4, 6}
@attribute class real
@data
0,19,182,2,0,0,0,1,0,2523
0,33,155,3,0,0,0,0,3,2551
0,20,105,1,1,0,0,0,1,2557
0,21,108,1,1,0,0,1,2,2594
0,18,107,1,1,0,0,1,0,2600
0,21,124,3,0,0,0,0,0,2622
```

0,22,118,1,0,0,0,0,1,2637
0,17,103,3,0,0,0,0,1,2637
0,29,123,1,1,0,0,0,1,2663
0,26,113,1,1,0,0,0,0,2665
0,19,95,3,0,0,0,0,0,2722
0,19,150,3,0,0,0,0,1,2733
0,22,95,3,0,0,1,0,0,2750
0,30,107,3,0,1,0,1,2,2750
0,18,100,1,1,0,0,0,0,2769
0,18,100,1,1,0,0,0,0,2769
0,15,98,2,0,0,0,0,0,2778
0,25,118,1,1,0,0,0,3,2782
0,20,120,3,0,0,0,1,0,2807
0,28,120,1,1,0,0,0,1,2821
0,32,121,3,0,0,0,0,2,2835
0,31,100,1,0,0,0,1,3,2835
0,36,202,1,0,0,0,0,1,2836
0,28,120,3,0,0,0,0,0,2863
0,25,120,3,0,0,0,1,2,2877
0,28,167,1,0,0,0,0,0,2877
0,17,122,1,1,0,0,0,0,2906
0,29,150,1,0,0,0,0,2,2920
0,26,168,2,1,0,0,0,0,2920
0,17,113,2,0,0,0,0,1,2920
0,17,113,2,0,0,0,0,1,2920
0,24,90,1,1,1,0,0,1,2948
0,35,121,2,1,1,0,0,1,2948
0,25,155,1,0,0,0,0,1,2977
0,25,125,2,0,0,0,0,0,2977
0,29,140,1,1,0,0,0,2,2977
0,19,138,1,1,0,0,0,2,2977
0,27,124,1,1,0,0,0,0,2992
0,31,215,1,1,0,0,0,2,3005
0,33,109,1,1,0,0,0,1,3033
0,21,185,2,1,0,0,0,2,3042
0,19,189,1,0,0,0,0,2,3062
0,23,130,2,0,0,0,0,1,3062
0,21,160,1,0,0,0,0,0,3062
0,18,90,1,1,0,0,1,0,3076
0,18,90,1,1,0,0,1,0,3076
0,32,132,1,0,0,0,0,4,3080
0,19,132,3,0,0,0,0,0,3090
0,24,115,1,0,0,0,0,2,3090
0,22,85,3,1,0,0,0,0,3090
0,22,120,1,0,0,1,0,1,3100
0,23,128,3,0,0,0,0,0,3104
0,22,130,1,1,0,0,0,0,3132
0,30,95,1,1,0,0,0,2,3147
0,19,115,3,0,0,0,0,0,3175
0,16,110,3,0,0,0,0,0,3175
0,21,110,3,1,0,0,1,0,3203
0,30,153,3,0,0,0,0,0,3203
0,20,103,3,0,0,0,0,0,3203
0,17,119,3,0,0,0,0,0,3225
0,17,119,3,0,0,0,0,0,3225
0,23,119,3,0,0,0,0,2,3232
0,24,110,3,0,0,0,0,0,3232
0,28,140,1,0,0,0,0,0,3234
0,26,133,3,1,2,0,0,0,3260
0,20,169,3,0,1,0,1,1,3274
0,24,115,3,0,0,0,0,2,3274
0,28,250,3,1,0,0,0,6,3303
0,20,141,1,0,2,0,1,1,3317
0,22,158,2,0,1,0,0,2,3317
0,22,112,1,1,2,0,0,0,3317
0,31,150,3,1,0,0,0,2,3321
0,23,115,3,1,0,0,0,1,3331
0,16,112,2,0,0,0,0,0,3374
0,16,135,1,1,0,0,0,0,3374
0,18,229,2,0,0,0,0,0,3402
0,25,140,1,0,0,0,0,1,3416
0,32,134,1,1,1,0,0,4,3430
0,20,121,2,1,0,0,0,0,3444
0,23,190,1,0,0,0,0,0,3459
0,22,131,1,0,0,0,0,1,3460
0,32,170,1,0,0,0,0,0,3473
0,30,110,3,0,0,0,0,0,3475
0,20,127,3,0,0,0,0,0,3487
0,23,123,3,0,0,0,0,0,3544

0,17,120,3,1,0,0,0,0,3572
0,19,105,3,0,0,0,0,0,3572
0,23,130,1,0,0,0,0,0,3586
0,36,175,1,0,0,0,0,0,3600
0,22,125,1,0,0,0,0,1,3614
0,24,133,1,0,0,0,0,0,3614
0,21,134,3,0,0,0,0,2,3629
0,19,235,1,1,0,1,0,0,3629
0,25,95,1,1,3,0,1,0,3637
0,16,135,1,1,0,0,0,0,3643
0,29,135,1,0,0,0,0,1,3651
0,29,154,1,0,0,0,0,1,3651
0,19,147,1,1,0,0,0,0,3651
0,19,147,1,1,0,0,0,0,3651
0,30,137,1,0,0,0,0,1,3699
0,24,110,1,0,0,0,0,1,3728
0,19,184,1,1,0,1,0,0,3756
0,24,110,3,0,1,0,0,0,3770
0,23,110,1,0,0,0,0,1,3770
0,20,120,3,0,0,0,0,0,3770
0,25,241,2,0,0,1,0,0,3790
0,30,112,1,0,0,0,0,1,3799
0,22,169,1,0,0,0,0,0,3827
0,18,120,1,1,0,0,0,2,3856
0,16,170,2,0,0,0,0,4,3860
0,32,186,1,0,0,0,0,2,3860
0,18,120,3,0,0,0,0,1,3884
0,29,130,1,1,0,0,0,2,3884
0,33,117,1,0,0,0,1,1,3912
0,20,170,1,1,0,0,0,0,3940
0,28,134,3,0,0,0,0,1,3941
0,14,135,1,0,0,0,0,0,3941
0,28,130,3,0,0,0,0,0,3969
0,25,120,1,0,0,0,0,2,3983
0,16,95,3,0,0,0,0,1,3997
0,20,158,1,0,0,0,0,1,3997
0,26,160,3,0,0,0,0,0,4054
0,21,115,1,0,0,0,0,1,4054
0,22,129,1,0,0,0,0,0,4111
0,25,130,1,0,0,0,0,2,4153
0,31,120,1,0,0,0,0,2,4167
0,35,170,1,0,1,0,0,1,4174
0,19,120,1,1,0,0,0,0,4238
0,24,116,1,0,0,0,0,1,4593
0,45,123,1,0,0,0,0,1,4990
1,28,120,3,1,1,0,1,0,709
1,29,130,1,0,0,0,1,2,1021
1,34,187,2,1,0,1,0,0,1135
1,25,105,3,0,1,1,0,0,1330
1,25,85,3,0,0,0,1,0,1474
1,27,150,3,0,0,0,0,0,1588
1,23,97,3,0,0,0,1,1,1588
1,24,128,2,0,1,0,0,1,1701
1,24,132,3,0,0,1,0,0,1729
1,21,165,1,1,0,1,0,1,1790
1,32,105,1,1,0,0,0,0,1818
1,19,91,1,1,2,0,1,0,1885
1,25,115,3,0,0,0,0,0,1893
1,16,130,3,0,0,0,0,1,1899
1,25,92,1,1,0,0,0,0,1928
1,20,150,1,1,0,0,0,2,1928
1,21,200,2,0,0,0,1,2,1928
1,24,155,1,1,1,0,0,0,1936
1,21,103,3,0,0,0,0,0,1970
1,20,125,3,0,0,0,1,0,2055
1,25,89,3,0,2,0,0,1,2055
1,19,102,1,0,0,0,0,2,2082
1,19,112,1,1,0,0,1,0,2084
1,26,117,1,1,1,0,0,0,2084
1,24,138,1,0,0,0,0,0,2100
1,17,130,3,1,1,0,1,0,2125
1,20,120,2,1,0,0,0,3,2126
1,22,130,1,1,1,0,1,1,2187
1,27,130,2,0,0,0,1,0,2187
1,20,80,3,1,0,0,1,0,2211
1,17,110,1,1,0,0,0,0,2225
1,25,105,3,0,1,0,0,1,2240
1,20,109,3,0,0,0,0,0,2240
1,18,148,3,0,0,0,0,0,2282

```

1,18,110,2,1,1,0,0,0,2296
1,20,121,1,1,1,0,1,0,2296
1,21,100,3,0,1,0,0,4,2301
1,26,96,3,0,0,0,0,0,2325
1,31,102,1,1,1,0,0,1,2353
1,15,110,1,0,0,0,0,0,2353
1,23,187,2,1,0,0,0,1,2367
1,20,122,2,1,0,0,0,0,2381
1,24,105,2,1,0,0,0,0,2381
1,15,115,3,0,0,0,1,0,2381
1,23,120,3,0,0,0,0,0,2395
1,30,142,1,1,1,0,0,0,2410
1,22,130,1,1,0,0,0,1,2410
1,17,120,1,1,0,0,0,3,2414
1,23,110,1,1,1,0,0,0,2424
1,17,120,2,0,0,0,0,0,2,2438
1,26,154,3,0,1,1,0,1,2442
1,20,105,3,0,0,0,0,3,2450
1,26,190,1,1,0,0,0,0,2466
1,14,101,3,1,1,0,0,0,2466
1,28,95,1,1,0,0,0,2,2466
1,14,100,3,0,0,0,0,2,2495
1,23,94,3,1,0,0,0,0,2495
1,17,142,2,0,0,1,0,0,2495
1,21,130,1,1,0,1,0,3,2495

```

1.2 lowbwt-test.arff

```

@relation 'lowbwt'
@attribute LOW { 0, 1}
@attribute AGE real
@attribute LWT real
@attribute RACE { 2, 3, 1}
@attribute SMOKE { 0, 1}
@attribute PTL { 0, 1, 2, 3}
@attribute HT { 0, 1}
@attribute UI { 1, 0}
@attribute FTV { 0, 3, 1, 2, 4, 6}
@attribute class real
@data
0,28,250,3,1,0,0,0,6,?
1,25,115,3,0,0,0,0,0,?
1,21,130,1,1,0,1,0,3,?

```

1.3 Valores reales de test

Instance	Actual value
1	3303
2	1893
3	2495

2. Cholesterol

This file describes the contents of the heart-disease directory.

This directory contains 4 databases concerning heart disease diagnosis.

All attributes are numeric-valued. The data was collected from the four following locations:

1. Cleveland Clinic Foundation (cleveland.data)
2. Hungarian Institute of Cardiology, Budapest (hungarian.data)
3. V.A. Medical Center, Long Beach, CA (long-beach-va.data)
4. University Hospital, Zurich, Switzerland (switzerland.data)

Each database has the same instance format. While the databases have 76

raw attributes, only 14 of them are actually used. Thus I've taken the liberty of making 2 copies of each database: one with all the attributes and 1 with the 14 attributes actually used in past experiments.

The authors of the databases have requested:

...that any publications resulting from the use of the data include the names of the principal investigator responsible for the data collection at each institution. They would be:

1. Hungarian Institute of Cardiology. Budapest: Andras Janosi, M.D.
2. University Hospital, Zurich, Switzerland: William Steinbrunn, M.D.
3. University Hospital, Basel, Switzerland: Matthias Pfisterer, M.D.
4. V.A. Medical Center, Long Beach and Cleveland Clinic Foundation: Robert Detrano, M.D., Ph.D.

Attributes -- Only 14 used

1. #3 (age)
2. #4 (sex)
3. #9 (cp)
4. #10 (trestbps)
5. #12 (chol)
6. #16 (fbs)
7. #19 (restecg)
8. #32 (thalach)
9. #38 (exang)
10. #40 (oldpeak)
11. #41 (slope)
12. #44 (ca)
13. #51 (thal)
14. #58 (num) (the predicted attribute)

-- Complete attribute documentation:

- 1 id: patient identification number
- 2 ccf: social security number (replaced with a dummy value of 0)
- 3 age: age in years
- 4 sex: sex (1 = male; 0 = female)
- 5 painloc: chest pain location (1 = substernal; 0 = otherwise)
- 6 painexer (1 = provoked by exertion; 0 = otherwise)
- 7 relrest (1 = relieved after rest; 0 = otherwise)
- 8 pncaden (sum of 5, 6, and 7)
- 9 cp: chest pain type
 - Value 1: typical angina
 - Value 2: atypical angina
 - Value 3: non-anginal pain
 - Value 4: asymptomatic
- 10 trestbps: resting blood pressure (in mm Hg on admission to the hospital)
- 11 htn
- 12 chol: serum cholestorol in mg/dl
- 13 smoke: I believe this is 1 = yes; 0 = no (is or is not a smoker)
- 14 cigs (cigarettes per day)
- 15 years (number of years as a smoker)
- 16 fbs: (fasting blood sugar > 120 mg/dl) (1 = true; 0 = false)
- 17 dm (1 = history of diabetes; 0 = no such history)
- 18 famhist: family history of coronary artery disease (1 = yes; 0 = no)
- 19 restecg: resting electrocardiographic results
 - Value 0: normal
 - Value 1: having ST-T wave abnormality (T wave inversions and/or ST elevation or depression of > 0.05 mV)

-- Value 2: showing probable or definite left ventricular hypertrophy by Estes' criteria

20 ekgmo (month of exercise ECG reading)

21 ekgday(day of exercise ECG reading)

22 ekgyr (year of exercise ECG reading)

23 dig (digitalis used during exercise ECG: 1 = yes; 0 = no)

24 prop (Beta blocker used during exercise ECG: 1 = yes; 0 = no)

25 nitr (nitrates used during exercise ECG: 1 = yes; 0 = no)

26 pro (calcium channel blocker used during exercise ECG: 1 = yes; 0 = no)

27 diuretic (diuretic used during exercise ECG: 1 = yes; 0 = no)

28 proto: exercise protocol

-- 1 = Bruce

-- 2 = Kottus

-- 3 = McHenry

-- 4 = fast Balke

-- 5 = Balke

-- 6 = Noughton

-- 7 = bike 150 kpa min/min (Not sure if "kpa min/min" is what was written!)

-- 8 = bike 125 kpa min/min

-- 9 = bike 100 kpa min/min

-- 10 = bike 75 kpa min/min

-- 11 = bike 50 kpa min/min

-- 12 = arm ergometer

29 thaldur: duration of exercise test in minutes

30 thaltime: time when ST measure depression was noted

31 met: mets achieved

32 thalach: maximum heart rate achieved

33 thalrest: resting heart rate

34 tpeakbps: peak exercise blood pressure (first of 2 parts)

35 tpeakbpd: peak exercise blood pressure (second of 2 parts)

36 dummy

37 trestbpd: resting blood pressure

38 exang: exercise induced angina (1 = yes; 0 = no)

39 xhypo: (1 = yes; 0 = no)

40 oldpeak = ST depression induced by exercise relative to rest

41 slope: the slope of the peak exercise ST segment

-- Value 1: upsloping

-- Value 2: flat

-- Value 3: downsloping

42 rldv5: height at rest

43 rldv5e: height at peak exercise

44 ca: number of major vessels (0-3) colored by flourosopy

45 restckm: irrelevant

46 exerckm: irrelevant

47 restef: rest raidonuclid (sp?) ejection fraction

48 restwm: rest wall (sp?) motion abnormality

-- 0 = none

-- 1 = mild or moderate

-- 2 = moderate or severe

-- 3 = akinesis or dyskmem (sp?)

49 exeref: exercise radinalid (sp?) ejection fraction

50 exerwm: exercise wall (sp?) motion

51 thal: 3 = normal; 6 = fixed defect; 7 = reversable defect

52 thalsev: not used

53 thalpul: not used

54 earlobe: not used

55 cmo: month of cardiac cath (sp?) (perhaps "call")

56 cday: day of cardiac cath (sp?)

57 cyr: year of cardiac cath (sp?)

58 num: diagnosis of heart disease (angiographic disease status)

-- Value 0: < 50% diameter narrowing


```

-- Value 1: > 50% diameter narrowing
      (in any major vessel: attributes 59 through 68 are vessels)
59 lmt
60 ladprox
61 laddist
62 diag
63 cxmain
64 ramus
65 om1
66 om2
67 rcaprox
68 rcadist
69 lvx1: not used
70 lvx2: not used
71 lvx3: not used
72 lvx4: not used
73 lvf: not used
74 cathef: not used
75 junk: not used
76 name: last name of patient
      (I replaced this with the dummy string "name")

```

2.1 cholesterol-train.txt

(importar a Weka cambiándolo a formato .arff)

```

age sex cp trestbps fbs restecg thalach exang oldpeak slope ca thal num
chol
63 1 1 145 1 2 150 0 2.3 3 0 6 0 233
67 1 4 160 0 2 108 1 1.5 2 3 3 2 286
67 1 4 120 0 2 129 1 2.6 2 2 7 1 229
37 1 3 130 0 0 187 0 3.5 3 0 3 0 250
41 0 2 130 0 2 172 0 1.4 1 0 3 0 204
56 1 2 120 0 0 178 0 0.8 1 0 3 0 236
62 0 4 140 0 2 160 0 3.6 3 2 3 3 268
57 0 4 120 0 0 163 1 0.6 1 0 3 0 354
63 1 4 130 0 2 147 0 1.4 2 1 7 2 254
53 1 4 140 1 2 155 1 3.1 3 0 7 1 203
57 1 4 140 0 0 148 0 0.4 2 0 6 0 192
56 0 2 140 0 2 153 0 1.3 2 0 3 0 294
56 1 3 130 1 2 142 1 0.6 2 1 6 2 256
52 1 3 172 1 0 162 0 0.5 1 0 7 0 199
57 1 3 150 0 0 174 0 1.6 1 0 3 0 168
48 1 2 110 0 0 168 0 1 3 0 7 1 229
54 1 4 140 0 0 160 0 1.2 1 0 3 0 239
48 0 3 130 0 0 139 0 0.2 1 0 3 0 275
49 1 2 130 0 0 171 0 0.6 1 0 3 0 266
64 1 1 110 0 2 144 1 1.8 2 0 3 0 211
58 1 2 120 0 2 160 0 1.8 2 0 3 1 284
58 1 3 132 0 2 173 0 3.2 1 2 7 3 224
60 1 4 130 0 2 132 1 2.4 2 2 7 4 206
50 0 3 120 0 0 158 0 1.6 2 0 3 0 219
58 0 3 120 0 0 172 0 0 1 0 3 0 340
66 0 1 150 0 0 114 0 2.6 3 0 3 0 226
43 1 4 150 0 0 171 0 1.5 1 0 3 0 247
40 1 4 110 0 2 114 1 2 2 0 7 3 167
69 0 1 140 0 0 151 0 1.8 1 2 3 0 239
60 1 4 117 1 0 160 1 1.4 1 2 7 2 230
64 1 3 140 0 0 158 0 0 1 0 3 1 335
59 1 4 135 0 0 161 0 0.5 2 0 7 0 234
44 1 3 130 0 0 179 1 0.4 1 0 3 0 233
42 1 4 140 0 0 178 0 0 1 0 3 0 226
43 1 4 120 0 2 120 1 2.5 2 0 7 3 177
57 1 4 150 0 2 112 1 0.6 2 1 6 1 276
55 1 4 132 0 0 132 1 1.2 2 1 7 3 353
61 1 3 150 1 0 137 1 1 2 0 3 0 243
65 0 4 150 0 2 114 0 1 2 3 7 4 225
40 1 1 140 0 0 178 1 1.4 1 0 7 0 199
71 0 2 160 0 0 162 0 0.4 1 2 3 0 302
59 1 3 150 1 0 157 0 1.6 1 0 3 0 212
61 0 4 130 0 2 169 0 0 1 0 3 1 330

```

58	1	3	112	0	2	165	0	2.5	2	1	7	4	230
51	1	3	110	0	0	123	0	0.6	1	0	3	0	175
50	1	4	150	0	2	128	0	2.6	2	0	7	4	243
65	0	3	140	1	2	157	0	0.8	1	1	3	0	417
53	1	3	130	1	2	152	0	1.2	3	0	3	0	197
41	0	2	105	0	0	168	0	0	1	1	3	0	198
65	1	4	120	0	0	140	0	0.4	1	0	7	0	177
44	1	4	112	0	2	153	0	0	1	1	3	2	290
44	1	2	130	0	2	188	0	0	1	0	3	0	219
60	1	4	130	0	0	144	1	1.4	1	1	7	1	253
54	1	4	124	0	2	109	1	2.2	2	1	7	1	266
50	1	3	140	0	0	163	0	0.6	2	1	7	1	233
41	1	4	110	0	2	158	0	0	1	0	7	1	172
54	1	3	125	0	2	152	0	0.5	3	1	3	0	273
51	1	1	125	0	2	125	1	1.4	1	1	3	0	213
51	0	4	130	0	0	142	1	1.2	2	0	7	2	305
46	0	3	142	0	2	160	1	1.4	3	0	3	0	177
58	1	4	128	0	2	131	1	2.2	2	3	7	1	216
54	0	3	135	1	0	170	0	0	1	0	3	0	304
54	1	4	120	0	0	113	0	1.4	2	1	7	2	188
60	1	4	145	0	2	142	1	2.8	2	2	7	2	282
60	1	3	140	0	2	155	0	3	2	0	3	1	185
54	1	3	150	0	2	165	0	1.6	1	0	7	0	232
59	1	4	170	0	2	140	1	3.4	3	0	7	2	326
46	1	3	150	0	0	147	0	3.6	2	0	3	1	231
65	0	3	155	0	0	148	0	0.8	1	0	3	0	269
67	1	4	125	1	0	163	0	0.2	2	2	7	3	254
62	1	4	120	0	0	99	1	1.8	2	2	7	1	267
65	1	4	110	0	2	158	0	0.6	1	2	6	1	248
44	1	4	110	0	2	177	0	0	1	1	3	1	197
60	1	4	125	0	2	141	1	2.8	2	1	7	1	258
51	0	3	140	0	2	142	0	1.5	1	1	3	0	308
48	1	2	130	0	2	180	0	0.2	2	0	3	0	245
58	1	4	150	0	2	111	1	0.8	1	0	7	3	270
45	1	4	104	0	2	148	1	3	2	0	3	0	208
53	0	4	130	0	2	143	0	0.4	2	0	3	0	264
39	1	3	140	0	2	182	0	0	1	0	3	0	321
68	1	3	180	1	2	150	1	1.6	2	0	7	3	274
52	1	2	120	0	0	172	0	0.2	1	0	3	0	325
44	1	3	140	0	2	180	0	0	1	0	3	0	235
47	1	3	138	0	2	156	0	0	1	0	3	0	257
53	0	3	128	0	2	115	0	0	1	0	?	0	216
53	0	4	138	0	2	160	0	0	1	0	3	0	234
51	0	3	130	0	2	149	0	0.5	1	0	3	0	256
66	1	4	120	0	2	151	0	0.4	2	0	3	0	302
62	0	4	160	0	2	145	0	6.2	3	3	7	3	164
62	1	3	130	0	0	146	0	1.8	2	3	7	0	231
44	0	3	108	0	0	175	0	0.6	2	0	3	0	141
63	0	3	135	0	2	172	0	0	1	0	3	0	252
52	1	4	128	0	0	161	1	0	1	1	7	1	255
59	1	4	110	0	2	142	1	1.2	2	1	7	2	239
52	1	2	134	0	0	158	0	0.8	1	1	3	0	201
48	1	4	122	0	2	186	0	0	1	0	3	0	222
45	1	4	115	0	2	185	0	0	1	0	3	0	260
34	1	1	118	0	2	174	0	0	1	0	3	0	182
57	0	4	128	0	2	159	0	0	1	1	3	0	303
71	0	3	110	1	2	130	0	0	1	1	3	0	265
49	1	3	120	0	0	139	0	2	2	3	7	3	188
54	1	2	108	0	0	156	0	0	1	0	7	0	309
59	1	4	140	0	0	162	1	0	1	1	7	2	177
57	1	3	128	0	2	150	0	0.4	2	1	7	1	229
61	1	4	120	0	0	140	1	3.6	2	1	7	2	260
39	1	4	118	0	0	140	0	1.2	2	0	7	3	219
61	0	4	145	0	2	146	1	1	2	0	7	1	307
56	1	4	125	1	2	144	1	1.2	2	1	3	1	249
52	1	1	118	0	2	190	0	0	2	0	6	0	186
43	0	4	132	1	2	136	1	3	2	0	7	2	341
62	0	3	130	0	0	97	0	1.2	2	1	7	2	263
41	1	2	135	0	0	132	0	0	2	0	6	0	203
58	1	3	140	1	2	165	0	0	1	0	3	0	211
35	0	4	138	0	0	182	0	1.4	1	0	3	0	183
63	1	4	130	1	2	132	1	1.8	1	3	7	3	330
65	1	4	135	0	2	127	0	2.8	2	1	7	2	254
48	1	4	130	1	2	150	1	0	1	2	7	3	256
63	0	4	150	0	2	154	0	4	2	3	7	4	407
51	1	3	100	0	0	143	1	1.2	2	0	3	0	222
55	1	4	140	0	0	111	1	5.6	3	0	7	3	217
65	1	1	138	1	2	174	0	1.4	2	1	3	1	282
45	0	2	130	0	2	175	0	0.6	2	0	3	0	234

56	0	4	200	1	2	133	1	4	3	2	7	3	288
54	1	4	110	0	0	126	1	2.8	2	1	7	3	239
44	1	2	120	0	0	170	0	0	1	0	3	0	220
62	0	4	124	0	0	163	0	0	1	0	3	0	209
54	1	3	120	0	2	147	0	0.4	2	0	7	0	258
51	1	3	94	0	0	154	1	0	1	1	7	0	227
29	1	2	130	0	2	202	0	0	1	0	3	0	204
51	1	4	140	0	2	186	1	0	1	0	3	0	261
43	0	3	122	0	0	165	0	0.2	2	0	3	0	213
55	0	2	135	0	2	161	0	1.4	2	0	3	0	250
70	1	4	145	0	0	125	1	2.6	3	0	7	4	174
62	1	2	120	0	2	103	0	1.4	2	1	7	3	281
35	1	4	120	0	0	130	1	1.6	2	0	7	1	198
51	1	3	125	1	2	166	0	2.4	2	0	3	0	245
59	1	2	140	0	0	164	1	0	1	0	3	0	221
59	1	1	170	0	2	159	0	0.2	2	0	7	1	288
52	1	2	128	1	0	184	0	0	1	0	3	0	205
64	1	3	125	0	0	131	1	1.8	2	0	7	1	309
58	1	3	105	0	2	154	1	0.6	2	0	7	0	240
47	1	3	108	0	0	152	0	0	1	0	3	1	243
57	1	4	165	1	2	124	0	1	2	3	7	4	289
41	1	3	112	0	0	179	0	0	1	0	3	0	250
45	1	2	128	0	2	170	0	0	1	0	3	0	308
60	0	3	102	0	0	160	0	0	1	1	3	0	318
52	1	1	152	1	0	178	0	1.2	2	0	7	0	298
42	0	4	102	0	2	122	0	0.6	2	0	3	0	265
67	0	3	115	0	2	160	0	1.6	2	0	7	0	564
55	1	4	160	0	2	145	1	0.8	2	1	7	4	289
64	1	4	120	0	2	96	1	2.2	3	1	3	3	246
70	1	4	130	0	2	109	0	2.4	2	3	3	1	322
51	1	4	140	0	0	173	1	1.6	1	0	7	1	299
58	1	4	125	0	2	171	0	0	1	2	7	1	300
60	1	4	140	0	2	170	0	1.2	2	2	7	2	293
68	1	3	118	0	0	151	0	1	1	1	7	0	277
46	1	2	101	1	0	156	0	0	1	0	7	0	197
77	1	4	125	0	2	162	1	0	1	3	3	4	304
54	0	3	110	0	0	158	0	1.6	2	0	3	0	214
58	0	4	100	0	2	122	0	1	2	0	3	0	248
48	1	3	124	1	0	175	0	0	1	2	3	0	255
57	1	4	132	0	0	168	1	0	1	0	7	0	207
52	1	3	138	0	0	169	0	0	1	?	3	0	223
54	0	2	132	1	2	159	1	0	1	1	3	0	288
35	1	4	126	0	2	156	1	0	1	0	7	1	282
45	0	2	112	0	0	138	0	0	2	0	3	0	160
53	1	4	142	0	2	111	1	0	1	0	7	0	226
59	0	4	174	0	0	143	1	0	2	0	3	1	249
62	0	4	140	0	2	157	0	1.2	2	0	3	0	394
64	1	4	145	0	2	132	0	2	2	2	6	4	212
57	1	4	152	0	0	88	1	1.2	2	1	7	1	274
52	1	4	108	1	0	147	0	0.1	1	3	7	0	233
56	1	4	132	0	2	105	1	2.1	2	1	6	1	184
43	1	3	130	0	0	162	0	1.9	1	1	3	0	315
53	1	3	130	1	2	173	0	0	1	3	3	0	246
48	1	4	124	0	2	166	0	0.5	2	0	7	3	274
56	0	4	134	0	2	150	1	1.9	2	2	7	2	409
42	1	1	148	0	2	178	0	0.8	1	2	3	0	244
59	1	1	178	0	2	145	0	4.2	3	0	7	0	270
60	0	4	158	0	2	161	0	0	1	0	3	1	305
63	0	2	140	0	0	179	0	0	1	2	3	0	195
42	1	3	120	1	0	194	0	0.8	3	0	7	0	240
66	1	2	160	0	0	120	1	0	2	3	6	2	246
54	1	2	192	0	2	195	0	0	1	1	7	1	283
69	1	3	140	0	2	146	0	2	2	3	7	2	254
50	1	3	129	0	0	163	0	0	1	0	3	0	196
51	1	4	140	0	0	122	1	4.2	2	3	7	3	298
43	1	4	132	1	2	143	1	0.1	2	?	7	1	247
62	0	4	138	1	0	106	0	1.9	2	3	3	2	294
68	0	3	120	0	2	115	0	1.5	2	0	3	0	211
67	1	4	100	0	2	125	1	0.9	2	2	3	3	299
69	1	1	160	1	2	131	0	0.1	2	1	3	0	234
45	0	4	138	0	2	152	1	0.2	2	0	3	0	236
50	0	2	120	0	0	162	0	1.1	1	0	3	0	244
59	1	1	160	0	2	125	0	0	1	0	3	1	273
50	0	4	110	0	2	159	0	0	1	0	3	0	254
64	0	4	180	0	0	154	1	0	1	0	3	0	325
57	1	3	150	1	0	173	0	0.2	1	1	7	0	126
64	0	3	140	0	0	133	0	0.2	1	0	7	0	313
43	1	4	110	0	0	161	0	0	1	0	7	0	211
45	1	4	142	0	2	147	1	0	2	3	7	3	309

58	1	4	128	0	2	130	1	3	2	2	7	3	259
50	1	4	144	0	2	126	1	0.9	2	0	7	3	200
55	1	2	130	0	0	155	0	0	1	0	3	0	262
62	0	4	150	0	0	154	1	1.4	2	0	3	1	244
37	0	3	120	0	0	170	0	0	1	0	3	0	215
38	1	1	120	0	0	182	1	3.8	2	0	7	4	231
41	1	3	130	0	2	168	0	2	2	0	3	0	214
66	0	4	178	1	0	165	1	1	2	2	7	3	228
52	1	4	112	0	0	160	0	0	1	1	3	1	230
56	1	1	120	0	2	162	0	1.9	2	0	7	0	193
46	0	2	105	0	0	172	0	0	1	0	3	0	204
46	0	4	138	0	2	152	1	0	2	0	3	0	243
64	0	4	130	0	0	122	0	2	2	2	3	0	303
59	1	4	138	0	2	182	0	0	1	0	3	0	271
41	0	3	112	0	2	172	1	0	1	0	3	0	268
54	0	3	108	0	2	167	0	0	1	0	3	0	267
39	0	3	94	0	0	179	0	0	1	0	3	0	199
53	1	4	123	0	0	95	1	2	2	2	7	3	282
63	0	4	108	0	0	169	1	1.8	2	2	3	1	269
34	0	2	118	0	0	192	0	0.7	1	0	3	0	210
47	1	4	112	0	0	143	0	0.1	1	0	3	0	204
67	0	3	152	0	0	172	0	0	1	1	3	0	277
54	1	4	110	0	2	108	1	0	2	1	3	3	206
66	1	4	112	0	2	132	1	0.1	1	1	3	2	212
52	0	3	136	0	2	169	0	0.1	2	0	3	0	196
55	0	4	180	0	1	117	1	3.4	2	0	3	2	327
49	1	3	118	0	2	126	0	0.8	1	3	3	1	149
74	0	2	120	0	2	121	1	0.2	1	1	3	0	269
54	0	3	160	0	0	163	0	0	1	1	3	0	201
54	1	4	122	0	2	116	1	3.2	2	2	3	3	286
56	1	4	130	1	2	103	1	1.6	3	0	7	2	283
46	1	4	120	0	2	144	0	0.8	1	0	7	1	249
49	0	2	134	0	0	162	0	0	2	0	3	0	271
42	1	2	120	0	0	162	0	0	1	0	3	0	295
41	1	2	110	0	0	153	0	0	1	0	3	0	235
41	0	2	126	0	0	163	0	0	1	0	3	0	306
49	0	4	130	0	0	163	0	0	1	0	3	0	269
61	1	1	134	0	0	145	0	2.6	2	2	3	2	234
60	0	3	120	1	0	96	0	0	1	0	3	0	178
67	1	4	120	0	0	71	0	1	2	0	3	2	237
58	1	4	100	0	0	156	0	0.1	1	1	7	2	234
47	1	4	110	0	2	118	1	1	2	1	3	1	275
52	1	4	125	0	0	168	0	1	1	2	7	3	212
62	1	2	128	1	2	140	0	0	1	0	3	0	208
57	1	4	110	0	0	126	1	1.5	2	0	6	0	201
58	1	4	146	0	0	105	0	2	2	1	7	1	218
51	0	3	120	0	2	157	0	0.6	1	0	3	0	295
43	1	4	115	0	0	181	0	1.2	2	0	3	0	303
42	0	3	120	0	0	173	0	0	2	0	3	0	209
67	0	4	106	0	0	142	0	0.3	1	2	3	0	223
76	0	3	140	0	1	116	0	1.1	2	0	3	0	197
70	1	2	156	0	2	143	0	0	1	0	3	0	245
57	1	2	124	0	0	141	0	0.3	1	0	7	1	261
44	0	3	118	0	0	149	0	0.3	2	1	3	0	242
58	0	2	136	1	2	152	0	0	1	2	3	3	319
60	0	1	150	0	0	171	0	0.9	1	0	3	0	240
44	1	3	120	0	0	169	0	0	1	0	3	0	226
61	1	4	138	0	2	125	1	3.6	2	1	3	4	166
42	1	4	136	0	0	125	1	1.8	2	0	6	2	315
52	1	4	128	1	0	156	1	1	2	0	?	2	204
59	1	3	126	1	0	134	0	2.2	2	1	6	2	218
40	1	4	152	0	0	181	0	0	1	0	7	1	223
42	1	3	130	0	0	150	0	0	1	0	3	0	180
61	1	4	140	0	2	138	1	1.9	1	1	7	1	207
66	1	4	160	0	2	138	0	2.3	1	0	6	0	228
46	1	4	140	0	0	120	1	1.8	2	2	7	2	311
71	0	4	112	0	0	125	0	1.6	2	0	3	0	149
59	1	1	134	0	0	162	0	0.8	1	2	3	1	204
64	1	1	170	0	2	155	0	0.6	2	0	7	0	227
66	0	3	146	0	2	152	0	0	2	1	3	0	278
39	0	3	138	0	0	152	0	0	2	0	3	0	220
57	1	2	154	0	2	164	0	0	1	1	3	1	232
58	0	4	130	0	0	131	0	0.6	2	0	3	0	197
57	1	4	110	0	0	143	1	3	2	1	7	2	335
47	1	3	130	0	0	179	0	0	1	0	3	0	253
55	0	4	128	0	1	130	1	2	2	1	7	3	205
35	1	2	122	0	0	174	0	0	1	0	3	0	192
61	1	4	148	0	0	161	0	0	1	1	7	2	203
58	1	4	114	0	1	140	0	4.4	3	3	6	4	318

```

58 0 4 170 1 2 146 1 2.8 2 2 6 2 225
58 1 2 125 0 0 144 0 0.4 2 ? 7 0 220
56 1 2 130 0 2 163 0 0 1 0 7 0 221
56 1 2 120 0 0 169 0 0 3 0 3 0 240
67 1 3 152 0 2 150 0 0.8 2 0 7 1 212
55 0 2 132 0 0 166 0 1.2 1 0 3 0 342
44 1 4 120 0 0 144 1 2.8 3 0 6 2 169
63 1 4 140 0 2 144 1 4 1 2 7 2 187
63 0 4 124 0 0 136 1 0 2 0 3 1 197
41 1 2 120 0 0 182 0 0 1 0 3 0 157
59 1 4 164 1 2 90 0 1 2 2 6 3 176
57 0 4 140 0 0 123 1 0.2 2 0 7 1 241
45 1 1 110 0 0 132 0 1.2 2 0 7 1 264
68 1 4 144 1 0 141 0 3.4 2 2 7 2 193
57 1 4 130 0 0 115 1 1.2 2 1 7 3 131
57 0 2 130 0 2 174 0 0 2 1 3 1 236
38 1 3 138 0 0 173 0 0 1 ? 3 0 175

```

2.2 cholesterol-test.txt

(importar a Weka cambiándolo a formato .arff)

```

age sex cp trestbps fbs restecg thalach exang oldpeak slope ca thal num
chol
44 1 2 120 0 0 173 0 0 1 0 7 0 ?
58 0 1 150 1 2 162 0 1 1 0 3 0 ?
60 0 4 150 0 2 157 0 2.6 2 2 7 3 ?
64 1 4 128 0 0 105 1 0.2 2 1 7 0 ?
65 0 3 160 0 2 151 0 0.8 1 0 3 0 ?
70 1 3 160 0 0 112 1 2.9 2 1 7 3 ?

```

2.3 Valores reales de test

Instance	Actual value
1	263
2	283
3	258
4	263
5	360
6	269

3. Sonar

SUMMARY: This is the data set used by Gorman and Sejnowski in their study of the classification of sonar signals using a neural network [1]. The task is to train a network to discriminate between sonar signals bounced off a metal cylinder and those bounced off a roughly cylindrical rock.

SOURCE: The data set was contributed to the benchmark collection by Terry Sejnowski, now at the Salk Institute and the University of California at San Diego. The data set was developed in collaboration with R. Paul Gorman of Allied-Signal Aerospace Technology Center.

MAINTAINER: Scott E. Fahlman

PROBLEM DESCRIPTION:

The file "sonar.mines" contains 111 patterns obtained by bouncing sonar signals off a metal cylinder at various angles and under various conditions. The file "sonar.rocks" contains 97 patterns obtained from rocks under similar conditions. The transmitted sonar signal is a frequency-modulated chirp, rising in frequency. The data set

contains signals obtained from a variety of different aspect angles, spanning 90 degrees for the cylinder and 180 degrees for the rock.

Each pattern is a set of 60 numbers in the range 0.0 to 1.0. Each number represents the energy within a particular frequency band, integrated over a certain period of time. The integration aperture for higher frequencies occur later in time, since these frequencies are transmitted later during the chirp.

The label associated with each record contains the letter "R" if the object is a rock and "M" if it is a mine (metal cylinder). The numbers in the labels are in increasing order of aspect angle, but they do not encode the angle directly.

3.1 Sonar-train.txt

(importar a Weka cambiándolo a formato .arff)

```
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3.2 Sonar-test.txt

(importar a Weka cambiándolo a formato .arff)

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61
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0.026,0.0192,0.0254,0.0061,0.0352,0.0701,0.1263,0.108,0.1523,0.163,0.103,0.2187,0.1542,0.263,0.294,0.2978,0.0699,0.1401,0.299,0.3915,0.3598,0.2403,0.4208,0.5675,0.6094,0.6323,0.6549,0.7673,1,0.8463,0.5509,0.4444,0.5169,0.4268,0.1802,0.0791,0.0535,0.1906,0.2561,0.2153,0.2769,0.2841,0.1733,0.0815,0.0335,0.0933,0.1018,0.0309,0.0208,0.0318,0.0132,0.0118,0.012,0.0051,0.007,0.0015,0.0035,0.0008,0.0044,0.0077,?
0.0181,0.0146,0.0026,0.0141,0.0421,0.0473,0.0361,0.0741,0.1398,0.1045,0.0904,0.0671,0.0997,0.1056,0.0346,0.1231,0.1626,0.3652,0.3262,0.2995,0.2109,0.2104,0.2085,0.2282,0.0747,0.1969,0.4086,0.6385,0.797,0.7508,0.5517,0.2214,0.4672,0.4479,0.2297,0.3235,0.448,0.5581,0.652,0.5354,0.2478,0.2268,0.1788,0.0898,0.0536,0.0374,0.099,0.0956,0.0317,0.0142,0.0076,0.0223,0.0255,0.0145,0.0233,0.0041,0.0018,0.0048,0.0089,0.0085,?
0.0491,0.0279,0.0592,0.127,0.1772,0.1908,0.2217,0.0768,0.1246,0.2028,0.0947,0.2497,0.2209,0.3195,0.334,0.3323,0.278,0.2975,0.2948,0.1729,0.3264,0.3834,0.3523,0.541,0.5228,0.4475,0.534,0.5323,0.3907,0.3456,0.4091,0.4639,0.558,0.5727,0.6355,0.7563,0.6903,0.6176,0.5379,0.5622,0.6508,0.4797,0.3736,0.2804,0.1982,0.2438,0.1789,0.1706,0.0762,0.0238,0.0268,0.0081,0.0129,0.0161,0.0063,0.0119,0.0194,0.014,0.0332,0.0439,?

3.3 Valores reales de test

Instance	Actual value
1	Mine
2	Mine
3	Rock
4	Rock
5	Rock
6	Rock
7	Mine