Description of the German credit dataset

Number of Instances: 1000

Number of Attributes: 20 (7 numerical, 13 categorical)

Attribute description:

Attribute 1: (qualitative)

Status of existing checking account

A11: ... < 0 DM A12:0 <= ... < 200 DM

A13: ... >= 200 DM /salary assignments for at least 1 year

A14: no checking account

Attribute 2: (numerical)

Duration in months

Attribute 3: (qualitative)

Credit history

A30: no credits taken/all credits paid back duly (Good)
A31: all credits at this bank paid back duly (Good)
A32: existing credits paid back duly till now (Poor)

A33 : delay in paying off in the past (Poor)

A34: critical account/other credits existing (not at this bank) (Very Poor)

Attribute 4: (qualitative)

Purpose

A40 : car (new) A41 : car (used)

A42 : furniture/equipment A43 : radio/television A44 : domestic appliances

A45 : repairs A46 : education

A47: (vacation - does not exist?)

A48 : retraining A49 : business A410 : others

Attribute 5: (numerical)

Credit amount

Attibute 6: (qualitative)

Savings account/bonds

A61: ... < 100 DM A62: 100 <= ... < 500 DM A63: 500 <= ... < 1000 DM A64: ... >= 1000 DM

A65: unknown/ no savings account

Attribute 7: (qualitative)

Present employment since

A71 : unemployed A72 : ... < 1 year A73 : 1 <= ... < 4 years A74 : 4 <= ... < 7 years A75 : ... >= 7 years

Attribute 8: (numerical)

Installment rate in percentage of disposable income

Attribute 9: (qualitative)

Personal status and sex

A91: male : divorced/separated

A92: female: divorced/separated/married

A93 : male : single

A94: male : married/widowed

A95 : female : single

Attribute 10: (qualitative)

Other debtors / guarantors

A101: none

A102 : co-applicant A103 : guarantor

Attribute 11: (numerical)

Present residence since

Attribute 12: (qualitative)

Property

A121 : real estate

A122 : if not A121 : building society savings agreement/life insurance

A123: if not A121/A122: car or other, not in attribute 6

A124: unknown / no property

Attribute 13: (numerical) Age in years

Attribute 14: (qualitative)

Other installment plans

A141 : bank A142 : stores A143 : none

Attribute 15: (qualitative)

Housing A151 : rent A152 : own A153 : for free

Attribute 16: (numerical)

Number of existing credits at this bank

Attribute 17: (qualitative)

Job

A171: unemployed/unskilled - non-resident

A172: unskilled - resident

A173 : skilled employee / official
A174 : management/ self-employed/
highly qualified employee/ officer

Attribute 18: (numerical)

Number of people being liable to provide maintenance for

Attribute 19: (qualitative)

Telephone A191 : none

A192: yes, registered under the customer's name

Attribute 20: (qualitative)

foreign worker A201 : yes A202 : no

Cost Matrix

This dataset requires use of a cost matrix (see below)

	Approved	Not Approved
No Default	0	1
Default	5	0

The rows represent the actual classification and the columns the predicted classification. It is worse to class a customer as good when they are bad (5), than it is to class a customer as bad when they are good (1).

Source Information

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