Blood Transfusion Service Center

Donated on 10/2/2008

Data taken from the Blood Transfusion Service Center in Hsin-Chu City in Taiwan -- this is a classification problem.

Dataset Characteristics
Multivariate

Subject Area
Business

Associated Tasks
Classification

Feature Type
Real

 # Instances
748

 # Features
4

Dataset Information

Additional Information

To demonstrate the RFMTC marketing model (a modified version of RFM), this study adopted the donor database of Blood Transfusion Service Center in Hsin-Chu City in Taiwan. The center passes their blood transfusion service bus to one university in Hsin-Chu City to gather blood donated about every three months. To build a FRMTC model, we selected 748 donors at random from the donor database. These 748 donor data, each one included R (Recency - months since last donation), F (Frequency - total number of donation), M (Monetary - total blood donated in c.c.), T (Time - months since first donation), and a binary variable representing whether he/she donated blood in March 2007 (1 stand for donating blood; 0 stands for not donating blood).

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Has Missing Values?
No

Introductory Paper

[Knowledge discovery on RFM model using Bernoulli sequence]
By I. Yeh, K. Yang, Tao-Ming Ting. 2009
Published in Expert systems with applications

Variables Table

Variable Name	Role	Type	Description	Units	Missing Values
Recency	Feature	Integer	months since last donation		no
Frequency	Feature	Integer	total number of donations		no
Monetary	Feature	Integer	total blood donated in c.c.		no
Time	Feature	Integer	months since first donation		no
Donated_Blood	Target	Binary	whether he/she donated blood in March 2007 (1 stand for donating blood; 0 stands for not donating blood)		no

Rows per page 10 0 to 5 of 5

Additional Variable Information

Given is the variable name, variable type, the measurement unit and a brief description. The "Blood Transfusion Service Center" is a classification problem. The order of this listing corresponds to the order of numerals along the rows of the database. ...

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Dataset Files

File	Size
transfusion.data	12.5 KB
transfusion.names	3.1 KB

Papers Citing this Dataset

SORT BY YEAR, DESC

Batch Active Learning Using Determinantal Point Processes
By Erdem Biyik, Kenneth Wang, Nima Anari, Dorsa Sadigh. 2019
Published in ArXiv.

A Similarity Classifier with Bonferroni Mean Operators
By Onesfole Kurama, Pasi Luukka, Mikael Collan. 2016
Published in Adv. Fuzzy Systems.

Kernel-Based Just-In-Time Learning for Passing Expectation Propagation Messages
By Wittawat Jitkrittum, Arthur Gretton, Nicolas Heess, S. Eslami, Balaji Lakshminarayanan, Dino Sejdinovic, Z...
Published in ArXiv.

© 2010 Science Publications Application of CART Algorithm in Blood Donors Classification
By T. Santhanam, Shyam Sundaram. 2010
Published in Journal of Computer Science.

Rows per page 5 0 to 5 of 5

Reviews

There are no reviews for this dataset yet.

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