

Stat882 project data

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From

<ftp://ftp.ics.uci.edu/pub/machine-learning-databases/balance-scale/balance-scale.names>

* Title: **Balance Scale Weight & Distance Database**

* Problem description,

This data set was generated to model psychological experimental results. Each example is classified as having the balance scale tip to the right, tip to the left, or be balanced. The attributes are the left weight, the left distance, the right weight, and the right distance. The correct way to find the class is the greater of (left-distance * left-weight) and (right-distance * right-weight). If they are equal, it is balanced.

* No. of classes:

3 (L, B, R)

*Number of Attributes & Attribute Information:

4 (numeric) + class name = 5

1. Class Name: 3 (L, B, R)
2. Left-Weight: 5 (1, 2, 3, 4, 5)
3. Left-Distance: 5 (1, 2, 3, 4, 5)
4. Right-Weight: 5 (1, 2, 3, 4, 5)
5. Right-Distance: 5 (1, 2, 3, 4, 5)

* No. of samples in the training set from each class:

625 (49 balanced, 288 left, 288 right)

* Class Distribution:

1. 46.08 percent are L (Left)
2. 07.84 percent are B (Balanced)
3. 46.08 percent are R (Right)