Overview of Perceptron Example

Dataset Link:

<https://www.kaggle.com/ninalabiba/blood-transfusion-dataset>

Dataset Content:

This dataset contains five columns with data from the Blood Transfusion Service Center in Hsin-Chu City in Taiwan. In March 2007 where the last transfusion took place, the transfusion service center in Hsin-Chu city closed and passed the blood transfusion services to a local university. The first four columns contain information about the transfusion medical history (months since last transfusion, number of transfusions, total blood donated etc.) and the last column contains values of 0 (didn’t donate blood in March 2007) and 1(donated blood for in March 2007).

Problem:

We would like to predict if someone donated blood in March 2007 based on their transfusion medical history.

Solution:

We want to develop a classification model using Perceptron which allows us to predict if someone donated blood in March 2007 or not.

Variables:

Independent variable 🡪 Recency, Frequency, Monetary, Time.

Dependent variable 🡪 Didn’t donate blood (0), donated blood(1).