Abstract

Nowadays, a lot of organization or a workgroup do some activities in collecting data without being able to use it properly. For that reason a new technology is deployed, it tries to find an information which has not been found before from a huge group of data, it is called Data Mining technology. It is hoped that those data can be used to gain usefull information. Even data mining can be used in the business world. Data mining technology answer business questions which needs a lot of time to answer it in manually.

This final project analyze Adaptive Synthetic Minority Oversampling Method (ASMO) on SVM for imbalance data, especially on billing coorporate costumer mobile telecommunication data. Billing for every customer on each product will be used in classification process to analyze the effect of ASMO for imbalance data. Variation product which is used by coorporate customer are very large and the low increasing in product selling is a problem in high-dimension-data learning with little minority example

This final project implements a modification to gain a balance data with data aggregation and time interleaving, also with ASMO to do the oversampling. SVM is used for classifying high-dimension-data.

***Key words**: ASMO, SVM, coorporate customer, data aggregation, time interleaving.*