

### **Data Mining Education from Practical Approach**

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This presentation is about the practical use and the results of data mining education at BUTE (Data Mining course) and University of Szeged (Practical Application of Statistics course) as well.

First I mention the theoretical part of data mining courses which ends with a closing test. I talk about SEMMA model, some types of statistical analysis, then I present those data miner software - i.e. SAS Enterprise Miner - which are available in Hungary.

Afterwards I come to the practical point of view. The most important problem of nowadays is how we can apply outdated data sets to actual situations, thus I introduce the methodology of simulation – i.e. the Hungarian Student Loan forecast -, and I talk about the difficulties of modelling demographic changes.

I mention some topics among the studies which are prepared in order to pass the practical part of the course. I present one case study (written by a foreign student), which is a great example of adapting theoretical knowledge in practice. His task was applying data mining techniques for knowledge discovery in order to build a model for fraud detection.

Finally I introduce some examples of applying data mining, credit scoring knowledge in decision support

*Keywords:* Data Mining, Statistics, Practical use of statistics, Decision support, Modelling, Simulation, Forecast, Credit scoring, Stress test, Case study