

## ABSTRACT

Theme: “ Logistic regression method for evaluating the solvency of individuals ”.

Bachelor's thesis explanatory note: 72 p., 13 fig., 2 tab., 3 app., 21 s..

CREDITWORTHINESS, CREDIT SCORING, DECISION TREE, LOGISTIC REGRESSION, TRAINING DATA, ROCK-CURVE, INDEX GINI

Relevance of the topic: The rapid development of consumer lending to individuals, which dates back to early 2000s in Ukraine, has shown the need to develop new and improve new risk management systems that meet current international financial reporting standards. Provision of consumer loans to individuals is one of the directions of the work of financial institutions that generate influential percentage of total return on. The process of consumer lending, especially in the context of the economic crisis and the instability of people, is characterized by losses, reflecting existing structural changes in the financial profile of citizens and society. At the same time, according to the analysis of the state of activity of Ukrainian banks, the accelerated growth of granted loans granted is a reality and a typical feature of consumer credit market in Ukraine.

The purpose of this work is to study and improve existing methods of constructing scoring models and assessing the creditworthiness of individuals using the method of logistic regression.

The subject of the study is a sample of statistical data that contains information on loans granted and unpaid consumer loans to individuals.

Methods of research: methods of linear probabilistic regression, logistic regression and the apparatus of decision trees.

The logistic regression model was constructed using the SAS Enterprise Miner software. For comparative analysis of the obtained results models were constructed in the form of decision trees, models of linear and logistic

regression.

Obtained results: the model Logistic regression method for evaluating the solvency of individuals.