

PREDICTING CUSTOMER CHURN IN BANKING INDUSTRY USING NEURAL NETWORKS

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DOI: 10.7906/indecs.14.2.1
Regular article

Received: 2 November 2015.
Accepted: 10 March 2016.

ABSTRACT

The aim of this article is to present a case study of usage of one of the data mining methods, neural network, in knowledge discovery from databases in the banking industry. Data mining is automated process of analysing, organization or grouping a large set of data from different perspectives and summarizing it into useful information using special algorithms. Data mining can help to resolve banking problems by finding some regularity, causality and correlation to business information which are not visible at first sight because they are hidden in large amounts of data. In this paper, we used one of the data mining methods, neural network, within the software package Alyuda NeuroIntelligence to predict customer churn in bank. The focus on customer churn is to determinate the customers who are at risk of leaving and analysing whether those customers are worth retaining. Neural network is statistical learning model inspired by biological neural and it is used to estimate or approximate functions that can depend on a large number of inputs which are generally unknown. Although the method itself is complicated, there are tools that enable the use of neural networks without much prior knowledge of how they operate. The results show that clients who use more bank services (products) are more loyal, so bank should focus on those clients who use less than three products, and offer them products according to their needs. Similar results are obtained for different network topologies.

KEY WORDS

data mining, neural network, banking, customer churn

CLASSIFICATION

JEL: C45, G21

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Predicting Customer Churn In Banking Industry Using Neural

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Predicting Customer Churn In Banking Industry Using Neural:

This book delves into Predicting Customer Churn In Banking Industry Using Neural. Predicting Customer Churn In Banking Industry Using Neural is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Predicting Customer Churn In Banking Industry Using Neural, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Predicting Customer Churn In Banking Industry Using Neural
 - Chapter 2: Essential Elements of Predicting Customer Churn In Banking Industry Using Neural
 - Chapter 3: Predicting Customer Churn In Banking Industry Using Neural in Everyday Life
 - Chapter 4: Predicting Customer Churn In Banking Industry Using Neural in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Predicting Customer Churn In Banking Industry Using Neural. The first chapter will explore what Predicting Customer Churn In Banking Industry Using Neural is, why Predicting Customer Churn In Banking Industry Using Neural is vital, and how to effectively learn about Predicting Customer Churn In Banking Industry Using Neural.
3. In chapter 2, the author will delve into the foundational concepts of Predicting Customer Churn In Banking Industry Using Neural. This chapter will elucidate the essential principles that need to be understood to grasp Predicting Customer Churn In Banking Industry Using Neural in its entirety.
4. In chapter 3, this book will examine the practical applications of Predicting Customer Churn In Banking Industry Using Neural in daily life. This chapter will showcase real-world examples of how Predicting Customer Churn In Banking Industry Using Neural can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Predicting Customer Churn In Banking Industry Using Neural in specific contexts. The fourth chapter will explore how Predicting Customer Churn In Banking Industry Using Neural is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Predicting Customer Churn In Banking Industry Using Neural. This chapter will summarize the key points that have been discussed throughout the book.
The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Predicting Customer Churn In Banking Industry Using Neural.

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Predicting Customer Churn In Banking Industry Using Neural Introduction

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