



# Mastering SQL Server 2014 Data Mining

*By Amarpreet Singh Bassan, Debarchan Sarkar*

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**Mastering SQL Server 2014 Data Mining** By Amarpreet Singh Bassan, Debarchan Sarkar

**Master selecting, applying, and deploying data mining models to build powerful predictive analysis frameworks**

## About This Book

- Understand the different phases of data mining, along with the tools used at each stage
- Explore the different data mining algorithms in depth
- Become an expert in optimizing algorithms and situation-based modeling

## Who This Book Is For

If you are a developer who is working on data mining for large companies and would like to enhance your knowledge of SQL Server Data Mining Suite, this book is for you. Whether you are brand new to data mining or are a seasoned expert, you will be able to master the skills needed to build a data mining solution.

## What You Will Learn

- Get an overview of the data mining life cycle
- Understand the intricacies of SQL Server BI Suite with the help of a practical example
- Collate data from diverse data sources and build a data warehouse
- Gain in-depth knowledge about the various data mining models such as classification, segmentation, association, and more
- Perform data mining using Big Data and Excel add-ins
- Work on real-world data and gain insights into it using various data mining algorithms
- Fine tune data mining models
- Troubleshoot problems encountered during data mining activities performed in this book

## In Detail

Whether you are new to data mining or are a seasoned expert, this book will provide you with the skills you need to successfully create, customize, and work with Microsoft Data Mining Suite. Starting with the basics, this book will cover how to clean the data, design the problem, and choose a data mining model that will give you the most accurate prediction.

Next, you will be taken through the various classification models such as the decision tree data model, neural network model, as well as Naive Bayes model. Following this, you'll learn about the clustering and association algorithms, along with the sequencing and regression algorithms, and understand the data mining expressions associated with each algorithm. With ample screenshots that offer a step-by-step account of how to build a data mining solution, this book will ensure your success with this cutting-edge data mining system.

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Amarpreet Singh Bassan is a Microsoft Data Platform engineer who works on SQL Server and its surrounding technologies. He is a subject matter expert in SQL Server Analysis Services and reporting services. Amarpreet is also a part of Microsoft's HDInsight team.

### **Debarchan Sarkar**

Debarchan Sarkar is a Microsoft Data Platform engineer. He specializes in the Microsoft SQL Server Business Intelligence stack. Debarchan is a subject matter expert in SQL Server Integration Services and delves deep into the open source world, specifically the Apache Hadoop framework. He is currently working on a technology called HDInsight, which is Microsoft's distribution of Hadoop on Windows. He has authored various books on SQL Server and Big Data, including Microsoft SQL Server 2012 with Hadoop, Packt Publishing, and Pro Microsoft HDInsight: Hadoop on Windows, Apress. His Twitter handle is @debarchans.

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