

Plan a strategy
Identify business requirements

Procure Data
Extract from event logs

Data processing
Identify improvement areas

Model Enhancement
Optimize the process model

Implementation
Adapt the improved model

Monitoring
Check for further improvements

Process Mining Life Cycle



Process Mining Process Mining

Gerardus Blokdyk



Process Mining Process Mining:

Process mining als procesoptimalisatie voor middelgrote bedrijven Daan Van Vooren, 2020 Digitale bedrijfsprocessen zijn niet meer weg te denken in de huidige bedrijfswereld Door de toenemende digitalisering van bedrijfsprocessen wordt vaak elke stap binnen zo'n proces gelogd Deze data wordt bijgehouden in grote databases en kan tot miljoenen rijen bevatten Een van de moeilijkheden van zulke grote hoeveelheden data is het omzetten van deze data naar nuttige inzichten waaruit business decisions gemaakt kunnen worden Process mining is een techniek binnen process management waarbij deze data wordt omgezet naar nuttige inzichten die kunnen helpen om bedrijfsprocessen te optimaliseren Zo kan nagegaan worden hoe het proces er uit ziet dat werknemers in realiteit doorlopen hoe het proces afwijkt van het verwachte proces welke factoren bottlenecks beïnvloeden en hoe toekomstige problemen voorspelt kunnen worden Deze techniek wordt steeds vaker gebruikt binnen grote bedrijven bedrijven die de investering in een professionele process mining tool zoals Celonis kunnen verantwoorden Een investering die middelgrote bedrijven vaak niet willen of kunnen doen Deze bedrijven gebruiken daarom vaak enkel klassieke BI tools Deze tools kunnen tonen dat een proces inefficiënt is maar niet waar deze inefficiëntie zich bevindt Een vaak gebruikte tool hiervoor is PowerBI dit is een klassieke BI tool maar heeft ook de optie om custom visuals te programmeren Hierdoor ontstond het idee om custom visuals te programmeren in de context van process mining Dit zorgt er voor dat PowerBI gebruikt zou kunnen worden om aan process mining te doen In dit onderzoek wordt nagegaan wat process mining precies is en wat de meest voorkomende technieken zijn binnen process mining Ook wordt gekeken naar welke process mining tools er reeds bestaan en wat de voor en nadelen hiervan zijn Tot slot worden twee custom PowerBI visuals geprogrammeerd waarmee aan process mining gedaan kan worden in PowerBI Dit creëert een nieuwe opportuniteit voor middelgrote bedrijven die Power

Process Mining Wil van der Aalst, 2014-10-07 More and more information about business processes is recorded by information systems in the form of so called event logs Despite the omnipresence of such data most organizations diagnose problems based on fiction rather than facts Process mining is an emerging discipline based on process model driven approaches and data mining It not only allows organizations to fully benefit from the information stored in their systems but it can also be used to check the conformance of processes detect bottlenecks and predict execution problems Wil van der Aalst delivers the first book on process mining It aims to be self contained while covering the entire process mining spectrum from process discovery to operational support In Part I the author provides the basics of business process modeling and data mining necessary to understand the remainder of the book Part II focuses on process discovery as the most important process mining task Part III moves beyond discovering the control flow of processes and highlights conformance checking and organizational and time perspectives Part IV guides the reader in successfully applying process mining in practice including an introduction to the widely used open source tool ProM Finally Part V takes a step back reflecting on the material presented and the key open challenges Overall this book provides a

comprehensive overview of the state of the art in process mining It is intended for business process analysts business consultants process managers graduate students and BPM researchers Process Mining Wil M. P. van der Aalst,2016-04-15 This is the second edition of Wil van der Aalst s seminal book on process mining which now discusses the field also in the broader context of data science and big data approaches It includes several additions and updates e g on inductive mining techniques the notion of alignments a considerably expanded section on software tools and a completely new chapter of process mining in the large It is self contained while at the same time covering the entire process mining spectrum from process discovery to predictive analytics After a general introduction to data science and process mining in Part I Part II provides the basics of business process modeling and data mining necessary to understand the remainder of the book Next Part III focuses on process discovery as the most important process mining task while Part IV moves beyond discovering the control flow of processes highlighting conformance checking and organizational and time perspectives Part V offers a guide to successfully applying process mining in practice including an introduction to the widely used open source tool ProM and several commercial products Lastly Part VI takes a step back reflecting on the material presented and the key open challenges Overall this book provides a comprehensive overview of the state of the art in process mining It is intended for business process analysts business consultants process managers graduate students and BPM researchers **Process Mining** Enrico Guardelli,2024-08-30 *Process Mining Gegevens Omzetten in Waarde* is een uitgebreide gids die data analyse en bedrijfsprocesbeheer verkent via process mining Dit boek beschrijft alles van basisconcepten tot geavanceerde technieken en biedt een compleet overzicht van het vakgebied Lezers leren over ontdekkingsalgoritmen nalevingscontrole prestatieanalyse en real time process mining Daarnaast introduceert het boek belangrijke process mining tools zoals ProM Disco en Celonis en bespreekt het opkomende technologie n zoals Machine Learning Big Data en IoT *Process Mining Handbook* Wil M. P. van der Aalst,Josep Carmona,2022-06-27 This is an open access book This book comprises all the single courses given as part of the First Summer School on Process Mining PMSS 2022 which was held in Aachen Germany during July 4 8 2022 This volume contains 17 chapters organized into the following topical sections Introduction process discovery conformance checking data preprocessing process enhancement and monitoring assorted process mining topics industrial perspective and applications and closing Process Mining Workshops Andrea Delgado,Tijs Slaats,2025-03-27 This book constitutes the revised accepted papers of several workshops which were held in conjunction with the 6th International Conference on Process Mining ICPM 2024 held in Lyngby Denmark during October 2024 The 56 revised full papers presented in this book were carefully reviewed and selected from 126 submissions The papers presented in this volume stem from the following workshops 9th International Workshop on Process Querying Manipulation and Intelligence PQMI 3rd International Workshop on Education Meets Process Mining EduPM 3rd International Workshop on Collaboration Mining for Distributed Systems CoMinDS 5th International Workshop on Leveraging Machine Learning in Process Mining ML4PM 5th

International Workshop on Event Data and Behavioral Analytics EdbA 7th International Workshop on Process Oriented Data Science for Healthcare PODS4H 1st International Workshop on Empirical Research in Process Mining ERPM 1st International Workshop on Generative Artificial Intelligence for Process Mining GenAI4PM 4th International Workshop on Stream Management Analytics for Process Mining SMA4PM 1st International Workshop on Process Mining for Sustainability PM4S

Process Mining Fouad Sabry, 2023-07-05 What Is Process Mining Process mining is a collection of approaches that relates the fields of data science and process management to support the study of operational processes based on event logs. These techniques were developed to help companies improve their business processes. The objective of process mining is to derive insights and take appropriate action from event data. The availability of event data and the aspiration to achieve process improvement are the driving forces behind process mining, which is an essential component of data science. The approaches of process mining make use of event data in order to demonstrate what individuals, machines, and organizations are actually doing. Process mining gives fresh insights that may be utilized to determine the execution paths taken by operational processes and address the performance and compliance concerns that are caused by these processes. How You Will Benefit I Insights and validations about the following topics: Chapter 1 Process Mining Chapter 2 Workflow Chapter 3 Event Driven Process Chain Chapter 4 Business Process Management Chapter 5 Sequential Pattern Mining Chapter 6 Business Process Discovery Chapter 7 Alpha Algorithm Chapter 8 Conformance Checking Chapter 9 Decision Mining Chapter 10 Artifact Centric Business Process Model II Answering the public top questions about process mining III Real world examples for the usage of process mining in many fields IV 17 appendices to explain briefly 266 emerging technologies in each industry to have 360 degree full understanding of process mining technologies Who This Book Is For Professionals undergraduate and graduate students enthusiasts hobbyists and those who want to go beyond basic knowledge or information for any kind of process mining

Process Mining in Healthcare Ronny S. Mans, Wil M. P. van der Aalst, Rob J. B. Vanwersch, 2015-03-12 What are the possibilities for process mining in hospitals? In this book, the authors provide an answer to this question by presenting a healthcare reference model that outlines all the different classes of data that are potentially available for process mining in healthcare and the relationships between them. Subsequently, based on this reference model, they explain the application opportunities for process mining in this domain and discuss the various kinds of analyses that can be performed. They focus on organizational healthcare processes rather than medical treatment processes. The combination of event data and process mining techniques allows them to analyze the operational processes within a hospital based on facts, thus providing a solid basis for managing and improving processes within hospitals. To this end, they also explicitly elaborate on data quality issues that are relevant for the data aspects of the healthcare reference model. This book mainly targets advanced professionals involved in areas related to business process management, business intelligence, data mining, and business process redesign for healthcare systems, as well as graduate students specializing in healthcare.

information systems and process analysis *Mastering Organizational Dynamics Using Process Mining* Roy Jing Yang, 2025-08-25 This book is a revised version of the PhD dissertation written by the author at Queensland University of Technology It presents research in the field of process mining with a focus of developing data driven methods to discover insights about human resources and their groups in an organizational business process context It provides an overview on mining organizational models from event logs and introduces a set of novel ideas framework and approaches proposed to enhance the state of the art The book is suitable for researchers and practitioners in the fields of business process management and process mining In 2024 the PhD dissertation won the BPM Dissertation Award granted to outstanding PhD theses in the field of Business Process Management *Process Mining Complete Self-Assessment Guide* Gerardus Blokdyk, 2018-04-09 What vendors make products that address the Process mining needs Does Process mining analysis show the relationships among important Process mining factors Who is the main stakeholder with ultimate responsibility for driving Process mining forward Why is it important to have senior management support for a Process mining project How do we go about Comparing Process mining approaches solutions This astounding Process mining self assessment will make you the entrusted Process mining domain assessor by revealing just what you need to know to be fluent and ready for any Process mining challenge How do I reduce the effort in the Process mining work to be done to get problems solved How can I ensure that plans of action include every Process mining task and that every Process mining outcome is in place How will I save time investigating strategic and tactical options and ensuring Process mining costs are low How can I deliver tailored Process mining advice instantly with structured going forward plans There s no better guide through these mind expanding questions than acclaimed best selling author Gerard Blokdyk Blokdyk ensures all Process mining essentials are covered from every angle the Process mining self assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so that Process mining outcomes are achieved Contains extensive criteria grounded in past and current successful projects and activities by experienced Process mining practitioners Their mastery combined with the easy elegance of the self assessment provides its superior value to you in knowing how to ensure the outcome of any efforts in Process mining are maximized with professional results Your purchase includes access details to the Process mining self assessment dashboard download which gives you your dynamically prioritized projects ready tool and shows you exactly what to do next Your exclusive instant access details can be found in your book

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