

Odoo Development Cookbook

Build effective applications by applying Odoo development best practices About This Book Each recipe stands by itself as much as possible, so that you can jump straight into the topics you prefer The recipes included cover all the major development areas of Odoo and the most important techniques explained through real-life projects From seasoned authors, learn the tricks of becoming a productive developer with the Odoo framework Who This Book Is For If you are a Python developer who wants to learn or consolidate your Odoo development skills, then this book is for you! Some experience with the JavaScript programming language and web development is required to fully benefit from the front-end chapters. What You Will Learn Install and manage Odoo environments and instances Use Models to define your application's data structures Add business logic to your applications Implement automated tests and debug Odoo apps Use back-end views to create a user interface Get to know about the access security model and internationalization features Develop front-end website features Extend the web client with new widgets and features In Detail Odoo is a full-featured open source ERP with a focus on extensibility. The flexibility and sustainability of open source is also a key selling point of Odoo. It is built on a powerful framework for rapid application development, both for back-end applications and front-end websites. The book starts by covering Odoo installation and administration, and provides a gentle introduction to application development. It then dives deep into several of the areas that an experienced developer will need to use. You'll learn implement business logic, adapt the UI, and extend existing features. Style and Approach These practical and easy-to-follow recipes are presented step-by-step, with dozens of hands-on recipes to boost your Odoo skills. This book can also be used as a reference guide for your daily work.

Odoo 14 Development CookbookRapidly build, customize, and manage secure and efficient business apps using Odoo's latest featuresPackt Publishing Ltd

Learn how to use Odo, a resourceful, open source business application platform designed to transform and modernize your business About This Book Configure, manage, and customize Odo to fit the needs of your business Learn about the new Odo 8 website builder and e-commerce features that are seamlessly integrated with Odo's business applications Perform step-by-step configurations of the most important Odo applications using real-world examples Who This Book Is For This book is perfect for people who have never used Odo and for those who would like to learn about more advanced features such as creating your own custom modules. In order to get the most out of this book, you should be comfortable with downloading and installing software and understand basic business concepts such as sales, inventory management, and basic accounting. What You Will Learn Configure a functioning customer relationship management system Set up a purchasing and receiving system for your company that allows you to track inventory, costs, and profit Implement manufacturing operations and processes using real-world examples, that you can put to use in your own company Discover the capabilities of Odo's financial accounting and reporting features Integrate powerful human resource applications that simplify the collection and management of employee information Utilize Odo's full featured project management application to organize tasks and track time and costs associated with billable projects Customize Odo without writing a line of code In Detail Odo continues to gain momentum throughout the world in regards to providing the best platform for open source ERP installations. Now with Odo 8, you have access to a powerful website builder, integrated e-commerce features, and a fast-growing community to help transform and modernize your business. With this practical guide, you will cover the essential modules to get Odo up and running for your company. After installing Odo, you will use its sales management application to enter quotes, create sales orders, and invoice customers. You will then learn how to integrate the CRM application to manage your leads and convert them into lucrative opportunities and sales. Next, you will set up your own purchase management system, assigning products to suppliers and tracking orders with the new warehouse management and routing system. Finally, you will learn how to use analytics to track project expenses and keep your accounts simple and easy to maintain and build an Odo module to extend its functionality and make it work for you. Working with Odo covers all the core installation and usage functionalities of this popular tool, helping you to fully implement a working ERP system through practical, advanced, real-world examples. Style and approach This book is a practical guide that uses real-world examples to teach you how to implement Odo into your business.

Annotation IBM Cognos TM1 is one of the most popular multidimensional analysis tools used to build collaborative planning, budgeting and forecasting solutions, as well as analytical and reporting applications. This cube-based technology does fast number crunching at the server end and helps end customers move away from manual and tedious planning, budgeting, and analytics processes.IBM Cognos TM1 Cookbook is a complete manual to building and managing applications with IBM Cognos TM1.Every important aspect of TM1 is covered with the help of practical recipes, which will make you well acquainted with the tool and you will be ready to take on TM1 projects in the real world. Existing TM1 users and developers will also benefit from the practical recipes covered in the book.The book will start with a chapter focusing on fundamentals of MOLAP and dimensional modeling, which forms the foundation on which IBM Cognos TM1 is based. Thereafter chapters will be more TM1-specific, starting with an introduction on dimensions and cubes and how to create and manage them. Further chapters will dig deeper into TM1 objects and rules.Then we will learn the more advanced features of TM1 such as automating common processes using scripts, customizing drill paths, using rules for advanced modeling, converting currencies, modeling for different fiscal requirements, and more.At the end of the book, we will cover how to present data and reports, workflows, and TM1 application security. Build exciting AR applications on mobile and wearable devices with Unity 3D, Vuforia, ARToolKit, Microsoft Mixed Reality HoloLens, Apple ARKit, and Google ARCore About This Book Create unique AR applications from scratch, from beginning to end, with step-by-step tutorials Use Unity 3D to efficiently create AR apps for Android, iOS, and Windows platforms Use Vuforia, ARToolKit, Windows Mixed Reality, and Apple ARKit to build AR projects for a variety of markets Learn best practices in AR user experience, software design patterns, and 3D graphics Who This Book Is For The ideal target audience for this book is developers who have some experience in mobile development, either Android or iOS. Some broad web development experience would also be beneficial. What You Will Learn Build Augmented Reality applications through a step-by-step, tutorial-style project approach Use the Unity 3D game engine with the Vuforia AR platform, open source ARToolKit, Microsoft's Mixed Reality Toolkit, Apple ARKit, and Google ARCore, via the C# programming language Implement practical demo applications of AR including education, games, business marketing, and industrial training Employ a variety of AR recognition modes, including target images, markers, objects, and spatial mapping Target a variety of AR devices including phones, tablets, and wearable smartglasses, for Android, iOS, and Windows HoloLens Develop expertise with Unity 3D graphics, UIs, physics, and event systems Explore and utilize AR best practices and software design patterns In Detail Augmented Reality brings with it a set of challenges that are unseen and unheard of for traditional web and mobile developers. This book is your gateway to Augmented Reality development—not a theoretical showpiece for your bookshelf, but a handbook you will keep by your desk while coding and architecting your first AR app and for years to come. The book opens with an introduction to Augmented Reality, including markets, technologies, and development tools. You will begin by setting up your development machine for Android, iOS, and Windows development, learning the basics of using Unity and the Vuforia AR platform as well as the open source ARToolKit and Microsoft Mixed Reality Toolkit. You will also receive an introduction to Apple's ARKit and Google's ARCore! You will then focus on building AR applications, exploring a variety of recognition targeting methods. You will go through multiple complete projects illustrating key market sectors including business marketing, education, industrial training, and gaming. By the end of the book, you will have gained the necessary knowledge to make quality content appropriate for a range of AR devices.

platforms, and intended uses. Style and approach This book adopts a practical, step-by-step, tutorial-style approach. The design principles and methodology will be explained by creating different modules of the AR app.

Discover extension development best practices, build advanced ERP integrations, and use DevOps tools

Explore the capabilities of Odoo and discover all you need to implement it

Enhance your Odoo development skills to create powerful business applications

SAP Data Services 4.x Cookbook

Financial Accounting with Odoo, Third Edition

A developer's guide to learning advanced techniques and best practices for building robust Salesforce applications

Mastering Apex Programming

A practical guide to crafting elegant, intuitive, and customer-friendly websites to deliver a high-quality user experience using the powerful features of the Odoo website builder Who This Book Is For This book is for you if you are a developer who wants to learn how to create a website using the Odoo website builder and learn how to make the most of itExtend your website by configuring the additional tools and functional optionsLearn about manageability and real-time functioning of the website using various operational toolsBook Description The Odo website builder is an operational tool in the Odo platform that allows you to design, develop, and manage a website. This book introduces and explains all the features of the Odo website builder that will help you to be more productive while creating websites. The book starts with an overview of the Odoo website builder, its functionalities, and the tools it offers. Using descriptive illustrations and practical examples, you'll gain detailed insights into the block operations of the Odoo website builder and learn how to work with structure blocks, features blocks, and dynamic content blocks. As you advance, you'll discover how to use the HTML, CSS, or JS editor in Odoo website builder applications for customization. This Odoo book will take you through the different aspects of website building and show you how e-commerce websites can be designed and developed using website builder applications. You'll build a website, manage it, and run a discussion forum in Odoo using the website builder, and apply your knowledge to add a live chat tool that can be incorporated into your website using the Odoo website builder. By the end of this book, you'll have gained a solid understanding of the Odoo website builder and be able to leverage its features to develop your own website. You will learn how to work with dynamic content blocks and inner content blocks in the Odoo website builder using an HTML, CSS, or JS editor in the Odoo website builder to customize applications>Create and design a blog with the Odoo website builderBuild a fully functional e-commerce website and a discussion forum using the Odoo website builderTrack visitors on the website and understand the live chat tool and its functionalityWho this book is for This book is for Odoo users, functional consultants, techno-functional consultants, web designers, and anyone looking to create impressive websites. Odoo developers will also find the book useful for building their website for the end user. Basic functional knowledge of Odoo is all that you need to get started with this book.

Over 80 effective recipes to help you solve real-world Microsoft Dynamics 365 for Finance and Operations development problems About This Book Learn all about the enhanced functionalities of Dynamics 365 for Finance and Operations and master development best practices Develop powerful projects using new tools and features Work through easy-to-understand recipes with step-by-step instructions and useful screenshots Who This Book Is For If you are a Dynamics AX developer primarily focused on delivering time-proven applications, then this book is for you. This book is also ideal for people who want to raise their programming skills above the beginner level, and at the same time learn the financial aspects of Dynamics 365 for Finance and Operations. Some X++ coding experience is expected. What You Will Learn Explore data manipulation concepts in Dynamics 365 for Operations forms Practice build scripts to assist data migration processes Organize data in Dynamics 365 for Operations forms Make custom lookups using AOT forms and dynamically generate them from X++ code Create a custom electronic payment format and process a vendor payment using it Integrate your application with Microsoft Office Suite and other external systems using various approaches ERP and learn business data for further distribution and analysis Improve your development efficiency and performance In Detail Microsoft Dynamics 365 for Finance and Operations has a lot to offer developers. It allows them to customize and tailor their implementations to meet their organization's needs. This Development Cookbook will help you manage your company or customer ERP information and operations efficiently. We start off by exploring the concept of data manipulation in Dynamics 365 for Operations. This will also help you build scripts to assist data migration, and show you how to organize data in forms. You will import how to create custom lookups using Application Object Tree forms and generate them dynamically. We will also show you how you can enhance your application by using advanced form controls, and integrate your system with other external systems. We will help you script and enhance your user interface using UI elements. This book will help you look at application development from a business process perspective, and develop enhanced ERP solutions by learning and implementing the best practices and techniques. Style and approach The book follows a practical recipe-based approach, focusing on real-world scenarios and giving you all the information you need to build a strong Dynamics 365 for Finance and Operations implementation.

The common patterns and practices of the microservice architecture and their application using the Clojure programming language. Key Features Relevance of the microservice architecture and benefits of Clojure's functional and simple features to implement it. Learn best practices and common principles to avoid common pitfalls while developing microservices. Learn how to use Pedestal to build your next microservices, secure them using JWT, and monitor them using the ELK stack Book Description The microservice architecture is sweeping the world as the de facto pattern with which to design and build scalable, easy-to-maintain web applications. This book will teach you common patterns and practices, and will show you how to apply these using the Clojure programming language. This book will teach you the fundamental concepts of architectural design and RESTful communication, and show you patterns that provide manageable code that is supportable in development and at scale in production. We will provide you with examples of how to put these concepts and patterns into practice with Clojure. This book will explain and illustrate, with practical examples, how teams of all sizes can start solving problems with microservices. You will learn the importance of writing clean code that is easy to understand and how Pedestal can help you do this. Later, the book explains how to build Reactive microservices in Clojure that adhere to the principles underlying the Reactive Manifesto. We finish off by showing you various ways to monitor, test, and secure your microservices. By the end, you will be fully capable of setting up, modifying, and deploying a microservice with Clojure and Pedestal. What you will learn Explore the pros and cons of monolithic and microservice architectures Use Clojure to effectively build a real-life application using Microservices Gain practical knowledge of the Clojure Platform framework and how to use it to build Microservices Explore various persistence patterns and learn how to use Apache Kafka to build event-driven microservice architectures Secure your Microservices using JWT Monitor Microservices at scale using the ELK stack Deploy Microservices at scale using container orchestration platforms such as Kubernetes Who this book is for You should have a working knowledge of programming in Clojure. However, no knowledge of RESTful architecture, microservices, or web services is expected. If you are looking to apply techniques to your own projects, taking your first steps into microservice architecture, this book is for you.

If you are a Linux system administrator or a Linux-based service administrator and want to fine-tune Linux to implement a supported, mature, and proven access control system, then this book is for you. Basic experience with SELinux enabled distributions is expected.

Modernize and upgrade your enterprise ERP environment by learning to work with the stable and essential components of Odo 12 from scratch Key FeaturesLearn the fundamentals of Odo, a comprehensive enterprise management platform, without writing a single line of codeCreate business operation strategies and analytics by using OdoBuild customized ERP and CRM solutions for your businessBook Description Odo is management software that contains a set of open source enterprise management applications that help you modernize your business. Completely revised and updated, this comprehensive Odo guide is a fourth edition of Working with Odo. This book begins with an introduction to Odo and helps you set up Odo Online in your system. You'll learn how to start a new company database in Odo and the basics of Odo sales management. You will explore customer relationship management in Odo and its importance in a modern business environment. Moving on, you'll learn how to install the purchasing application, set up suppliers, and begin purchasing and receiving products in Odo. Next, you'll learn how to use the MRP module to create, process, and schedule the manufacturing and production order. Once you get to grips with the basic applications, you'll uncover how to customize Odo to meet the specific needs of your business. You'll learn some advanced techniques for searching and finding information, and you'll be taken through business intelligence in Odo. Towards the end of the book, you'll go in-depth into Odo's architecture and learn to use Odo's API to integrate with other applications. By the end of the book, you'll be ready to use Odo to build enterprise applications and set up the functional requirements for your business. What you will learnConfigure and customize a customer relationship management systemSet up purchasing and receiving system functionality in your Odo environmentUnderstand manufacturing operations and processes with real-world examplesExplore Odo's financial accounting and reporting featuresUse Odo's featured project management application to sort tasksGet to grips with the basics of Odo administration and manage multi-company operationsWho this book is for This book is for any IT professionals, business managers, and operation managers who are looking to gain a functional understanding of Odo or trying to implement Odo in their organization to improve their business processes. No prior experience of Odo is required.

Fast-track your Odo development skills to build powerful business applications, 4th Edition

Odo 10 Implementation Cookbook

A Playbook for Business Value and Digital Transformation

Learn how to install, maintain, and secure a NetSuite implementation, using the best tools and techniques

Rapidly build, customize, and manage secure and efficient business apps using Odo's latest features

Mastering Microsoft Dynamics 365 Business Central

Demystifying AI for the Enterprise

Get up and running with ReactJS by developing five cutting-edge and responsive projects About This Book Create pragmatic real-world applications while learning React and its modern developer tools Build sustainable user interfaces by transforming data into components of UI Learn how to generate reusable ReactJS components effectively Who This Book Is For If you are a web developer and wish to learn ReactJS from scratch, then this book is tailor-made for you. Good understanding of Javascript, HTML, and CSS is expected. What You Will Learn Create, reuse, and compose React components using JSX Share data between various React components and techniques for data flow within a React app Handle user interactions with the help of event handlers and dynamic components Set up and use various next generation ES2015/ES6 features with React Understand the performance and immutability features of React using React add-ons Learn the techniques of Animation in React Use data stores to store model-related data and information Create a flux-based React application by using Redux library In Detail ReactJS is an open-source JavaScript library that brings the power of reactive programming to web applications and sites. It aims to address the challenges encountered in developing single-page applications, and is intended to help developers build large, easily scalable and changing web apps. Starting with a project on Open Library API, you will be introduced to React and JSX before moving on to learning about the life cycle of a React component. In the second project, building a multi-step wizard form, you will learn about composite dynamic components and perform DOM actions. You will also learn about building a fast search engine by exploring server-side rendering in the third project on search engine application. Next, you will build a simple frontend for an e-commerce app in the fourth project by using data models and React add-ons. In the final project you will develop a complete social media tracker by using the flux way of defining React apps and know about the best practices and use cases with the help of ES6 and redux. By the end of this book, you will not only have a good understanding of ReactJS but will also have built your very own responsive frontend applications from scratch. Style and approach An easy-to-follow program to learn ReactJS with the help of real world projects. Each topic is explained within the context of a project and provides plenty of tips and tricks for using ReactJS.

Build customized solutions for your business using the latest features of Odo 12 and Python Key Features Get up to speed with Odo 12 to create custom and reusable modules Interconnect your application with other systems by implementing web APIs Understand the mechanisms powering the Odoo framework and Odoo.sh to build robust enterprises Book Description Odoo is a powerful framework known for rapid application development. Its latest release, Odo 12, introduces tons of new features. With this book, you'll learn how to develop powerful Odoo applications from scratch, using all the latest features. This Odoo cookbook starts by covering Odoo installation and deployment on the server. Next, you'll explore the Odoo framework with real-world examples. You'll also learn how to modify existing applications, including Point of Sale (POS). This book is not just limited to backend development; the advanced JavaScript recipes for creating new views and widgets will help you build beautiful UI elements. As you move forward, you'll gain insights into website development and become a quality Odoo developer by studying performance optimization, debugging, and automated tests. Finally, you'll learn the latest concepts like multi-website, In-App Purchasing (IAP), Odoo.sh, and IoT Box. By the end of the book, you'll have all the knowledge you need to build powerful Odoo applications. The development best practices used in this book will undoubtedly come handy when you are working with the Odoo framework. What you will learn Develop a module in the Odoo framework and modify the existing flow of any application Build dynamic websites with Odoo CMS Create and modify a Python application in Odoo Connect and access any object in Odoo via Remote Procedure Calls (RPC) Illustrate the different tools available in Odoo to implement business processes for your recordsImplement in-app purchase servicesManage, deploy, and test an Odoo instance with the PaaS Odoo.sh Configure IoT Box to add and upgrade Point of Sale (POS) hardware Who this book is for If you're a Python developer who wants to develop highly efficient business applications with the latest Odoo framework, or if you just want a solution guide for all your Odoo development issues, this book is for you. Some JavaScript programming and web development experience is necessary to get the most out of this book.

Become a proficient Odoo developer and increase your productivity while building Odoo business applications Key FeaturesSet up the Odoo development environment and learn how to test and debug your codeUse the ORM framework to work with data and implement business logic Supporting business rulesDesign user interfaces, web pages, and business reports using the Odoo framework's web componentsBook Description Odoo is fast becoming the reference open source platform for business applications thanks to the fact that it provides the infrastructure needed for developers to deliver software solutions for any business process quickly. Odoo's layered model approach makes it particularly effective for combining and extending features. This updated fifth edition is a tutorial-style introduction to essential Odoo development topics. The book starts by covering the development essentials for building business applications and takes you through Odoo installation and configuration, gradually transitioning from having no specific knowledge of Odoo to being ready for application development. You'll then learn how to develop your first Odoo application, while covering topics such as models and views. Later chapters will get you up to speed with using server APIs to add business logic, helping you lay a solid foundation for advanced topics. As you progress, you'll get equipped to build and customize your applications and explore the new features available in Odoo 12 and beyond, such as in-memory ORM and computed writable fields. Finally, you'll gain insights into building business logic and using the Odoo API to integrate with various applications. By the end of this book, you'll be able to build business apps from scratch using the latest version of Odo. What you will learnInstall Odoo from source and organize the development environmentCreate your first Odoo app from scratchUnderstand the application components available in OdooStructure the application's data model using ORM featuresUse the ORM API to implement the business logic layerDesign a graphical user interface (GUI) for the web client and websiteUse the Odoo External API to interface with external systemsDeploy and maintain your application in production environmentsWho this book is for This book is for developers who want to learn Odoo application development and quickly become proficient in building business applications. Teachers, trainers, and Odoo team managers will also find the book useful for helping their students or trainees to learn Odoo development skills. Basic knowledge of Python programming is required to get started with the book. This textbook offers students a systematic guide to how information systems underpin organisational activity in today's global information society, covering everything from ICT infrastructure and the digital environment to electronic marketing, mobile commerce and design thinking. While academically rigorous and underpinned by the author's deep knowledge of the subject, an engaging writing style combined with extensive pedagogical features, cases and innovative examples from around the world ensure that the text remains accessible to those approaching the topic for the first time. Taking an approach that views businesses as complex systems, the book illustrates how valuable systems thinking can be in our everyday working lives, while theoretical ideas are always supported by examples of their application in the real world. This text is the ideal course companion for all students studying business information systems or management information systems modules at undergraduate, postgraduate or MBA level. New to this Edition: - New coverage of key contemporary topics, including big data, analytics, cloud computing, the internet of things, blockchain and bitcoin, green IS, ethics and cyber security. - Brand new chapters on Mobile Commerce and Social Media, and Designing Digital Organisation (design thinking). - A revised concluding chapter considering contemporary technological trends, as well as reflections and predictions for future innovations.

Extend your skills with Odo 12 to build resourceful and open source business applications Key FeaturesExplore Odo 12 capabilities to develop business applicationsProgram business logic and manipulate data to implement specific business rules in your applicationsIntegrate Python APIs for building customizable and scalable business logicBook Description Odoo is one of the best platforms for open source ERP and CRM. Its latest version, Odo 12, brings with it new features and updates in Python packages to develop more customizable applications with additional cloud capabilities. The book begins by covering the development essentials for building business applications. You will start your journey by learning how to install and configure Odo, and then transition from having no specific knowledge of Odo to being ready for application development. You will develop your first Odoo application and understand topics such as models and views. Odo 12 Development Essentials will also guide you in using server APIs to add business logic, helping you lay a solid foundation for advanced topics. As you progress through the chapters, you will be equipped to build and customize your applications and explore the new features in Odo 12, such as cloud integration, to scale your business applications. You will get insights into building business logic and integrating various APIs into your application. By the end of the book, you will be able to build a business application from scratch by using the latest version of Odo. What you will learnManage Odoo server instancesCreate a new Odoo application from scratch using the most frequently used elementsDevelop new models and use inheritance to extend existing modelsUse ORM methods in the Odoo server and from external clients Create Kanban views using QWeb effectively Build custom web and website CMS pagesUse external APIs to integrate Odoo with external applicationsAdd automated tests and techniques to debug module business logicWho this book is for If you are a developer familiar with Python and MVC design and want to build business applications using Odo, this book is for you.

Develop event-driven, scalable, and reactive microservices with real-time monitoring Build practical augmented reality applications with Unity, ARCore, ARKit, and Vuforia Working with Odo 10 Odo 15 Development Essentials Getting Started with Hazelcast Over 120 unique recipes to build effective enterprise and business applications, 2nd Edition Create and customize state-of-the-art websites and e-commerce apps for your modern business needs

Tackle the real-world complexities of modern machine learning with innovative, cutting-edge, techniques About This Book Fully-coded working examples using a wide range of machine learning libraries and tools, including Python, R, Julia, and Spark Comprehensive practical solutions taking you into the future of machine learning Go a step further and integrate your machine learning projects with Hadoop Who This Book Is For This book has been created for data scientists who want to see machine learning in action and explore its real-world application. With guidance on everything from the fundamentals of machine learning and predictive analytics to the latest innovations set to lead the big data revolution into the future, this is an unmissable resource for anyone dedicated to tackling current big data challenges. Knowledge of programming (Python and R) and mathematics is advisable if you want to get started immediately. What You Will Learn Implement a wide range of algorithms and techniques for tackling complex data Get to grips with some of the most powerful languages in data science, including R, Python, and Julia Harness the capabilities of Spark and Hadoop to manage and process data successfully Apply the appropriate machine learning technique to address real-world problems Get acquainted with Deep Learning and find out how neural networks are being used at the cutting-edge of machine learning Explore the future of machine learning and dive deeper into polyglot persistence, semantic data, and more In Detail Finding meaning in increasingly larger and more complex datasets is a growing demand of the modern world. Machine learning and predictive analytics have become the most important approaches to uncover data gold mines. Machine learning uses complex algorithms to make improved predictions of outcomes based on historical patterns and the behaviour of data sets. Machine learning can deliver dynamic insights into trends, patterns, and relationships within data, immensely valuable to business growth and development. This book explores an extensive range of machine learning techniques uncovering hidden tricks and tips for several types of data using practical and real-world examples. While machine learning can be highly theoretical, this book offers a refreshing hands-on approach without losing sight of the underlying principles. Inside, a full exploration of the various algorithms gives you high-quality guidance so you can begin to see just how effective machine learning is at tackling contemporary challenges of big data. This is the only book you need to implement a whole suite of open source tools, frameworks, and languages in machine learning. We will cover the leading data science languages, Python and R, and the underrated but powerful Julia, as well as a range of other big data platforms including Spark, Hadoop, and Mahout. Practical Machine Learning is an essential resource for the modern data scientists who want to get to grips with its real-world application. With this book, you will not only learn the fundamentals of machine learning but dive deep into the complexities of real world data before moving on to using Hadoop and its wider ecosystem of tools to process and manage your structured and unstructured data. You will explore different machine learning techniques for both supervised and unsupervised learning. From designing models, you will learn strategies for a truly advanced approach to the statistical analysis of data. The book also explores the cutting-edge advancements in machine learning, with worked examples and guidance on deep learning and reinforcement learning, providing you with practical demonstrations and samples that help take the theory—and mystery—out of even the most advanced machine learning methodologies. Style and approach A practical data science tutorial designed to give you an insight into the practical application of machine learning, this book takes you through complex concepts and tasks in an accessible way. Featuring information on a wide range of data science techniques, Practical Machine Learning is a comprehensive data science resource.

Extend your skills with Odo 12 to build resourceful and open source business applications Key Features Explore Odo 12 capabilities to develop business applications Program business logic and manipulate data to implement specific business rules in your applications Integrate Python APIs for building customizable and scalable business logic Book Description Odoo is one of the best platforms for open source ERP and CRM. Its latest version, Odo 12, brings with it new features and updates in Python packages to develop more customizable applications with additional cloud capabilities. The book begins by covering the development essentials for building business applications. You will start your journey by learning how to install and configure Odo, and then transition from having no specific knowledge of Odo to being ready for application development. You will develop your first Odoo application and understand topics such as models and views. Odo 12 Development Essentials will also guide you in using server APIs to add business logic, helping you lay a solid foundation for advanced topics. As you progress through the chapters, you will be equipped to build and customize your applications and explore the new features in Odo 12, such as cloud integration, to scale your business applications. You will get insights into building business logic and integrating various APIs into your application. By the end of the book, you will be able to build a business application from scratch by using the latest version of Odo. What you will learn Manage Odoo server instances Create a new Odoo application from scratch using the most frequently used elements Develop new models and use inheritance to extend existing models Use ORM methods in the Odoo server and from external clients Create Kanban views using QWeb effectively Build custom web and website CMS pages Use external APIs to integrate Odoo with external applications Add automated tests and techniques to debug module business logic Who this book is for If you are a developer familiar with Python and MVC design and want to build business applications using Odo, this book is for you.

Artificial intelligence (AI) in its various forms — machine learning, chatbots, robots, agents, etc. — is increasingly being seen as a core component of enterprise business workflow and information management systems. The current promise and hype around AI are being driven by software vendors, academic research projects, and startups. However, we posit that the greatest promise and potential for AI lies in the enterprise with its applications touching all organizational facets. With increasing business process and workflow maturity, coupled with recent trends in cloud computing, defatigation, IoT, cybersecurity, and advanced analytics, there is an understanding that the challenges of tomorrow cannot be solely addressed by today's people, processes, and products. There is still considerable mystery, hype, and fear about AI in today's world. A considerable amount of current discourse focuses on a dystopian future that could adversely affect humanity. Such opinions, with understandable fear of the unknown, don't consider the history of human innovation, the current state of business and technology, or the primarily augmentative nature of tomorrow's AI. This book demystifies AI for the enterprise. It takes readers from the basics (definitions, state-of-the-art, etc.) to a multi-industry journey, and concludes with expert advice on everything an organization must do to succeed. Along the way, we debunk myths, provide practical pointers, and include best practices with applicable vignettes. AI brings to enterprise the capabilities that promise new ways by which professionals can address both mundane and interesting challenges more efficiently, effectively, and collaboratively (with humans). The opportunity for tomorrow's enterprise is to augment existing talents and resources with the power of AI in order to gain competitive advantage, discover new business models, establish or optimize new revenues, and achieve better customer and user satisfaction.

Build customized solutions for your business using the latest features of Odo 12 and Python Key Features Get up to speed with Odo 12 to create custom and reusable modules Interconnect your application with other systems by implementing web APIs Understand the mechanisms powering the Odoo framework and Odoo.sh to build robust enterprises Book Description Odoo is a powerful framework known for rapid application development. Its latest release, Odo 12, introduces tons of new features. With this book, you'll learn how to develop powerful Odoo applications from scratch, using all the latest features. This Odoo cookbook starts by covering Odoo installation and deployment on the server. Next, you'll explore the Odoo framework with real-world examples. You'll create a new Odoo module from the ground up and progress to advanced framework concepts. You'll also learn how to modify existing applications, including Point of Sale (POS). This book is not just limited to backend development; the advanced JavaScript recipes for creating new views and widgets will help you build beautiful UI elements. As you move forward, you'll gain insights into website development and become a quality Odoo developer by studying performance optimization, debugging, and automated tests. Finally, you'll learn the latest concepts like multi-website, In-App Purchasing (IAP), Odoo.sh, and IoT Box. By the end of the book, you'll have all the knowledge you need to build powerful Odoo applications. The development best practices used in this book will undoubtedly come handy when you are working with the Odoo framework. What you will learn Develop a module in the Odoo framework and modify the existing flow of any application Build dynamic websites with Odoo CMS Create and modify backend JavaScript components in Odoo and POS Connect and access any object in Odoo via Remote Procedure Calls (RPC) Illustrate the different tools available in Odoo to implement business processes for your recordsImplement in-app purchase servicesManage, deploy, and test an Odoo instance with the PaaS Odoo.sh Configure IoT Box to add and upgrade Point of Sale (POS) hardware Who this book is for If you're a Python developer who wants to develop highly efficient business applications with the latest Odoo framework, or if you just want a solution guide for all your Odoo development issues, this book is for you. Some JavaScript programming and web development experience is necessary to get the most out of this book.

Create fast and efficient server-side applications using the latest features of Odo v11 Key Features Get the most up-to-date guide on Odo 11 to create custom and reusable modules Interconnect your application with other systems by implementing web APIs Understand the mechanisms powering the Odoo framework to build robust enterprises Book Description Odoo is a full-featured open source ERP with a focus on extensibility. The flexibility and sustainability of open source are also a key selling point of Odo. It is built on a powerful framework for rapid application development, both for back-end applications and front-end websites. The latest v10 has quite a few updates that will interest... Build customized solutions for your business using the latest features of Odo 12 and Python Key Features Get up to speed with Odo 12 to create custom and reusable modules Interconnect your application with other systems by implementing web APIs Understand the mechanisms powering the Odoo framework to build robust enterprises Book Description Odoo is a full-featured open source ERP with a focus on extensibility. The flexibility and sustainability of open source is also a key selling point of Odo. It is built on a powerful framework for rapid application development, both for back-end applications and front-end websites. The latest v10 has quite a few updates that will interest... Develop Data to SAP Data Services environment to efficiently prepare, implement, and develop ETL processes About This Book Install and configure the SAP Data Services environment Develop ETL techniques in the Data Services environment Implement real-life examples of Data Services uses through step-by-step instructions to perform specific ETL development tasks Who This Book Is For This book is for IT technical engineers who want to get familiar with the EIM solutions provided by SAP for ETL development and data quality management. The book requires familiarity with basic programming concepts and basic knowledge of the SQL language. What You Will Learn Install, configure, and administer the SAP Data Services components Run through the ETL design basics Maximize the performance of your ETL with the advanced patterns in Data Services Extract methods from various databases and systems Get familiar with the transformation methods available in SAP Data Services Load methods into various databases and systems Code with the Data Services scripting language Validate and cleanse your data,

