Studio Notebook User Guide

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Automated Machine Learning on AWS Packt Publishing Ltd
Perform efficient fast text representation and classification with Facebook's fastText library Key Features Introduction to Facebook's fastText library for NLP Perform efficient word representations, sentence classification, vector representation Build better, more scalable solutions for text representation and classification Book Description Facebook's fastText library handles text representation and classification, used for Natural Language Processing (NLP). Most organizations have to deal with enormous amounts of text data on a daily basis, and gaining efficient data insights requires powerful NLP tools such as fastText. This book is your ideal introduction to fastText. You will learn how to create fastText models from the command line, without the need for complicated code. You will explore the algorithms that fastText is built on and how to use them for word representation and text classification. Next, you will use fastText in conjunction with other popular libraries and frameworks such as Keras, TensorFlow, and PyTorch. Finally, you will deploy fastText models to mobile devices. By the end of this book, you will have all the required knowledge to use fastText in your own applications at work or in projects. What you will learn Create models using the default command line options in fastText Understand the algorithms used in fastText to create word vectors Combine command line text transformation capabilities and the fastText library to implement a training, validation, and prediction pipeline Explore word representation and sentence classification using fastText Use Gensim and spaCy to load the vectors, transform, lemmatize, and perform other NLP tasks efficiently Develop a fastText NLP classifier using popular frameworks, such as Keras, Tensorflow, and PyTorch Who this book is for This book is for data analysts, data scientists, and machine learning developers who want to perform efficient word representation and sentence classification using Facebook's fastText library. Basic knowledge of Python programming is required.

Q# Pocket Guide Packt Publishing Ltd
R Markdown: The Definitive Guide is the first official book authored by the core R Markdown developers that provides a comprehensive and accurate reference to the R Markdown ecosystem. With R Markdown, you can easily create reproducible data analysis reports, presentations, dashboards, interactive applications, books, dissertations, websites, and journal articles, while enjoying the simplicity of Markdown and the great power of R and other languages. In this book, you will learn Basics: Syntax of Markdown and R code chunks, how to generate figures and tables, and how to use other computing languages Built-in output formats of R Markdown: PDF/HTML/Word/RTF/Markdown documents and ioslides/Slidy/Beamer/PowerPoint presentations Extensions and applications: Dashboards, Tufte handouts, xaringan/reveal.js presentations, websites, books, journal articles, and interactive tutorials Advanced topics: Parameterized reports, HTML widgets, document templates, custom output formats, and Shiny documents. Yihui Xie is a software engineer at RStudio. He has authored and co-authored several R packages, including knitr, rmarkdown, bookdown, blogdown, shiny, xaringan, and animation. He has published three other books, Dynamic Documents with R and knitr, bookdown: Authoring Books and Technical Documents with R Markdown, and blogdown: Creating Websites with R Markdown. J.J. Allaire is the founder of RStudio and the creator of the RStudio IDE. He is an author of several packages in the R Markdown ecosystem including rmarkdown, flexdashboard, learnr, and radix. Garrett Grolemund is the co-author of R for Data Science and author of Hands-On Programming with R. He wrote the lubridate R package and works for RStudio as an advocate who trains engineers to do data science with R and the Tidyverse.

Azure Data Engineer Associate Certification Guide John Wiley & Sons
Track-by-track, album-by-album guide to the ultimate cult act The Fall's 25-year recording career.

Puttering Around the Art Studio "O'Reilly Media, Inc."
Streamline formative assessment for readers in just minutes a day With What Do I Teach Readers Tomorrow? Fiction, discover how to move your readers forward with in-class, actionable formative assessment. The authors

provide a proven, 4-step process—lean in, listen to what readers say, look at what they write, and assess where they need to go next. Next-step resources for whole-class, small-group, and one-on-one instruction, include Reproducible Clipboard Notes pages for quick assessments More than 30 lessons to get you started Reading notebook entries and sample classroom conversations Online video clips of Renee and Gravity teaching and debriefing

ASP.NET 2.0 McFarland
Explore Azure AI Platform KEY FEATURES ? Easy-to-follow tutorial for getting started with the Azure AI platform. ? Integrated platform for developing, deploying, and managing AI apps. ? Includes real-world scenarios and use-cases to fully explore Azure AI Platform. DESCRIPTION Microsoft Azure AI A Beginner's Guide explains the fundamentals of Azure AI and some more advanced topics. The sole objective of the book is to provide hands-on experience working with the various services, APIs, and tools available in the Azure AI Platform. This book begins by discussing the fundamentals of the Azure AI platform and the essential principles behind the Azure AI ecosystem and services. Readers will become familiar with the essential services, use cases, and examples provided by Azure AI Platform and Services, including Azure Cognitive Services, Azure Computer Vision, Azure Applied AI Services, and Azure Machine Learning. The author focuses on teaching how to utilize Azure Cognitive services to construct intelligent apps, including Image Processing, Object Detection, Text Recognition, OCR, Spatial Analysis, and Face Recognition using Computer Vision. Readers can investigate Azure Applied AI Services, including Form Recognizer, Metrics Advisor, Cognitive Search, Immersive Reader, Video Analyzer, and Azure Bot Service. Bot Framework and the Bot Framework Emulator will be explored in further detail, and how they can be used in AI applications to improve their conversational user interfaces. With Azure Machine Learning Studio, you will also learn to incorporate machine learning into your enterprise-level applications. WHAT YOU WILL LEARN ? Get familiar with Azure AI Platform and the cognitive capabilities of Azure. ? Learn to create apps that can process photos, detect faces, and detect objects. ? Utilize OCR, handwriting recognition, and spatial analysis in your development. ? Learn about Azure AI services like Form Recognizer, Metrics Advisor, Cognitive Search, Azure Immersive Reader, and Video Analyzer. ? Try out several NLP applications with the Azure BOT framework. WHO THIS BOOK IS FOR This book teaches AI developers, machine learning engineers, and architects how to swiftly develop intelligent applications utilizing the Azure AI Platform. Knowledge of .NET or .NET Core is strongly advised to get the most out of the book. TABLE OF CONTENTS 1 .Azure AI Platform and Services 2. Azure Computer Vision - Image Analysis, Processing, Content Moderation, Object and Face Detection 3. Computer Vision - Text Recognition, Optical Character Recognition, Spatial Analysis 4. Azure Cognitive Services - Custom Applications leveraging Decision, Language, Speech, Web Search 5. Azure Applied AI Services 6. Azure Applied AI Services -BOTs– A Brief Introduction 7. Machine Learning-Infusing ML in Custom Applications using ML.NET 8. Machine Learning - Using Azure ML Studio

Python Programming and Numerical Methods "O'Reilly Media, Inc."
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Bonanza aired on NBC from September 12, 1959, to January 16, 1973, playing to 480,000,000 viewers in over 97 countries. It was the second longest running western series, surpassed only by Gunsmoke, and continues to provide wholesome entertainment to old and new fans via syndication. This book provides an in-depth chronicle of the series and its stars. A history of the show from its inception to the current made-for-television movies is provided, and an episode guide includes a synopsis of each show and lists such details as the main characters of each episode and the actors who portrayed them, the dates they stayed with the show, date and time of original broadcast, writer, director, producer, executive producer, and supporting cast. Also provided are character sketches for each of the major recurring characters, career biographies of Lorne Green, Pernell Roberts, Dan Blocker, and Michael Landon, brief biographical sketches of the supporting cast, a discography of recordings of the Bonanza theme and recordings of the four major stars, and information on Bonanza television movies.

Red Hat OpenShift V4.3 on IBM Power Systems Reference Guide IBM Redbooks
A step-by-step solution-based guide to preparing building, training, and deploying high-quality machine learning models with Amazon SageMaker Key FeaturesPerform ML experiments with built-

in and custom algorithms in SageMakerExplore proven solutions when working with TensorFlow, PyTorch, Hugging Face Transformers, and scikit-learnUse the different features and capabilities of SageMaker to automate relevant ML processesBook Description Amazon SageMaker is a fully managed machine learning (ML) service that helps data scientists and ML practitioners manage ML experiments. In this book, you'll use the different capabilities and features of Amazon SageMaker to solve relevant data science and ML problems. This step-by-step guide features 80 proven recipes designed to give you the hands-on machine learning experience needed to contribute to real-world experiments and projects. You'll cover the algorithms and techniques that are commonly used when training and deploying NLP, time series forecasting, and computer vision models to solve ML problems. You'll explore various solutions for working with deep learning libraries and frameworks such as TensorFlow, PyTorch, and Hugging Face Transformers in Amazon SageMaker. You'll also learn how to use SageMaker Clarify, SageMaker Model Monitor, SageMaker Debugger, and SageMaker Experiments to debug, manage, and monitor multiple ML experiments and deployments. Moreover, you'll have a better understanding of how SageMaker Feature Store, Autopilot, and Pipelines can meet the specific needs of data science teams. By the end of this book, you'll be able to combine the different solutions you've learned as building blocks to solve real-world ML problems. What you will learnTrain and deploy NLP, time series forecasting, and computer vision models to solve different business problemsPush the limits of customization in SageMaker using custom container imagesUse AutoML capabilities with SageMaker Autopilot to create high-quality modelsWork with effective data analysis and preparation techniquesExplore solutions for debugging and managing ML experiments and deploymentsDeal with bias detection and ML explainability requirements using SageMaker ClarifyAutomate intermediate and complex deployments and workflows using a variety of solutionsWho this book is for This book is for developers, data scientists, and machine learning practitioners interested in using Amazon SageMaker to build, analyze, and deploy machine learning models with 80 step-by-step recipes. All you need is an AWS account to get things running. Prior knowledge of AWS, machine learning, and the Python programming language will help you to grasp the concepts covered in this book more effectively.

Microsoft Certified Azure Data Fundamentals Study Guide Packt Publishing Ltd
This IBM® Redpaper publication describes how to deploy Red Hat OpenShift V4.3 on IBM Power Systems servers. This book presents reference architectures for deployment, initial sizing guidelines for server, storage, and IBM Cloud® Paks. Moreover, this publication delivers information about initial supported Power System configurations for Red Hat OpenShift V4.3 deployment (bare metal, IBM PowerVM® LE LPARs, and others). This book serves as a guide for how to deploy Red Hat OpenShift V4.3 and provide start guidelines and recommended practices for implementing it on Power Systems and completing it with the supported IBM Cloud Paks. The publication addresses topics for developers, IT architects, IT specialists, sellers, and anyone who wants to implement a Red Hat OpenShift V4.3 and IBM Cloud Paks on IBM Power Systems. This book also provides technical content to transfer how-to skills to the support teams, and solution guidance to the sales team. This book compliments the documentation that is available at IBM Knowledge Center, and also aligns with the educational offerings that are provided by the IBM Systems Technical Education (SSE).

What Do I Teach Readers Tomorrow? Fiction, Grades 3-8 CRC Press
Develop the skills you need to run machine learning workloads in Azure and pass the DP-100 exam with ease Key FeaturesCreate end-to-end machine learning training pipelines, with or without codeTrack experiment progress using the cloud-based MLflow-compatible process of Azure ML servicesOperationalize your machine learning models by creating batch and real-time endpointsBook Description The Azure Data Scientist Associate Certification Guide helps you acquire practical knowledge for machine learning experimentation on Azure. It covers everything you need to pass the DP-100 exam and become a certified Azure Data Scientist Associate. Starting with an introduction to data science, you'll learn the terminology that will be used throughout the book and then move on to the Azure Machine Learning (Azure ML) workspace. You'll discover the studio interface and manage various components, such as data stores and compute clusters. Next, the book focuses on no-code and low-code experimentation, and shows you how to use the Automated ML wizard to locate and deploy optimal models for your dataset. You'll also learn how to run end-to-end data science experiments using the designer provided in Azure ML Studio. You'll then explore the Azure ML Software Development Kit (SDK) for Python and advance to creating experiments and publishing models using code. The book also guides you in optimizing your model's hyperparameters using Hyperdrive before demonstrating how to use responsible AI tools to interpret and debug your models. Once you have a trained model, you'll

learn to operationalize it for batch or real-time inferences and monitor it in production. By the end of this Azure certification study guide, you'll have gained the knowledge and the practical skills required to pass the DP-100 exam. What you will learnCreate a working environment for data science workloads on AzureRun data experiments using Azure Machine Learning servicesCreate training and inference pipelines using the designer or codeDiscover the best model for your dataset using Automated MLUse hyperparameter tuning to optimize trained modelsDeploy, use, and monitor models in productionInterpret the predictions of a trained modelWho this book is for This book is for developers who want to infuse their applications with AI capabilities and data scientists looking to scale their machine learning experiments in the Azure cloud. Basic knowledge of Python is needed to follow the code samples used in the book. Some experience in training machine learning models in Python using common frameworks like scikit-learn will help you understand the content more easily.

InfoWorld Corwin Press

The proven Study Guide that prepares you for this new Google Cloud exam The Google Cloud Certified Professional Data Engineer Study Guide, provides everything you need to prepare for this important exam and master the skills necessary to land that coveted Google Cloud Professional Data Engineer certification. Beginning with a pre-book assessment quiz to evaluate what you know before you begin, each chapter features exam objectives and review questions, plus the online learning environment includes additional complete practice tests. Written by Dan Sullivan, a popular and experienced online course author for machine learning, big data, and Cloud topics, Google Cloud Certified Professional Data Engineer Study Guide is your ace in the hole for deploying and managing analytics and machine learning applications. • Build and operationalize storage systems, pipelines, and compute infrastructure • Understand machine learning models and learn how to select pre-built models • Monitor and troubleshoot machine learning models • Design analytics and machine learning applications that are secure, scalable, and highly available. This exam guide is designed to help you develop an in depth understanding of data engineering and machine learning on Google Cloud Platform.

Girl Scout Collectors' Guide Helter Skelter Limited

Graph data closes the gap between the way humans and computers view the world. While computers rely on static rows and columns of data, people navigate and reason about life through relationships. This practical guide demonstrates how graph data brings these two approaches together. By working with concepts from graph theory, database schema, distributed systems, and data analysis, you'll arrive at a unique intersection known as graph thinking. Authors Denise Koessler Gosnell and Matthias Broecheler show data engineers, data scientists, and data analysts how to solve complex problems with graph databases. You'll explore templates for building with graph technology, along with examples that demonstrate how teams think about graph data within an application. Build an example application architecture with relational and graph technologies Use graph technology to build a Customer 360 application, the most popular graph data pattern today Dive into hierarchical data and troubleshoot a new paradigm that comes from working with graph data Find paths in graph data and learn why your trust in different paths motivates and informs your preferences Use collaborative filtering to design a Netflix-inspired recommendation system

Popular Photography Packt Publishing Ltd

Most people view movie posters as an expensive form of expendable advertising. Others, however, see the posters as valuable art. If you are in the latter category, this is the work for you. All facets of collecting movie posters are covered in this guide book. The history of the movie poster is first presented, including a look at how the early studios influenced the development of posters. Next is a brief look at the world of movie art collecting. This is followed by a reference section that provides comprehensive explanations of the most commonly used terms in the field. Getting your collection started is the next topic, giving novice and more experienced collectors information on publications and materials available, where to go to purchase posters, where to go for help and other items. A concluding section details the proper care and handling of movie art materials, along with methods for restoration.

Machine Learning with Amazon SageMaker Cookbook Packt Publishing Ltd

In this unusual and very personal book multi-discipline putterer, artist and sculptor Charlie Maiorana shares some of the techniques, art explorations, and insights gathered over his varied art career. The topics in this wide-ranging book run the gamut from simple instructions for making an umbrella ball and home-brewed gallery bags to practical topics such as his method for creating and decorating ceramic tiles and how to use an AirPen for acrylic painting. The book also includes a number of uncommon topics such as how to develop geometric sculptural ideas using SketchUp, and advice on how to take a creative walk around IKEA, home improvement stores, and craft stores.Table of ContentsFirst ThoughtsHow I Generate 2D Image IdeasPneumatic FormsMaking Home-Brewed Gallery BagsAcrylic Pouring, Epoxy Pouring, Epoxy Painting, and Epoxy CoatingCreating Tubular Sculptures Using Automotive Exhaust TubingMaking an Umbrella BallSqueeze Bottle Painting & Using an AirPenAcrylic Skins45A Note on Paper Folding & Sculptural FormsBridges Conference on Math & Art and JMMMakerspaces, Instructables.com, and Pier 9 PublicationsWorking with Alcohol InksCreating Assemblages using Fabric StiffenersSpherical ConstructionsCube ConstructionsA Creative Stroll Around IKEA, Lowe's, & MichaelsAdult Coloring Books and ZentanglesPainted PVC & Epoxy PicturesHow I Make Simple Wood PanelsDye Sublimation BasicsWorking with PVC Pipe and SheetDeveloping Sculptural Ideas Using SketchUpArtZeeWorking With FoamMy Thoughts on Talavera Pottery DesignsA Few Welding Thoughts and an ExperimentRaised Line Ceramic Artisan TilesInspirational Websites and Artists

Serverless ETL and Analytics with AWS Glue John Wiley & Sons

As every photographer quickly learns, there's more to studio lighting than simply learning the equipment. InBasic Studio Lighting, an expert photographer and renowned photography teacher provides nuts-and-bolts guidance for mastering the complexities of one of the most important aspects of making a photograph: proper lighting. Readers will discover surefire tactics for using equipment properly and innovative ways of utilizing color and light to create fabulous effects, as well as getting hands-on practice with exposures, accent lighting, backgrounds, set-ups, and dozens of other studio techniques. Plus, dozens of outstanding color photographs illustrate each technique step by step. Perfect for aspiring photographers and students as well as veterans,Basic Studio Lightingprovides all the theory and practical techniques needed to create professional photos that make an impact. • Hundreds of proven tips and techniques from an expert in the field • A hot topic for every photographer • Over 150 outstanding photos with step-by-step instructions make mastering these techniques easy

Official Gazette of the United States Patent and Trademark Office Texas Tech University Press

The perennial bestseller—now in a new edition Authoritative and practical, this comprehensive guide offers everything a teacher needs to know for conducting an effective art instruction and appreciation program. The Third Edition of The Art Teacher's Survival Guide for Elementary and Middle Schools includes a complete update on public-relations guidelines, and reference material examples. The revised edition also features many new projects, an update on current projects and includes an explanation of the hot topic amongst art educators, Teaching Artistic Behavior (TAB/choice). Choice-based art education is reflected in the authors' discussion of teaching in mixed-media, ceramics, photography, sculpture, and art history. More than 100 creative art projects, from drawing to digital media Offers teaching tools, tips, and multicultural curriculum resources Includes new material on logical ways to encourage individual and personal solutions to a problem Gives teachers more latitude as to how individuality is suggested in a lesson This is an invaluable compendium for art educators and classroom teachers alike.

Learn Amazon SageMaker CRC Press

InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.

Microsoft Azure AI: A Beginner's Guide Packt Publishing Ltd

"First Published in 1998, Routledge is an imprint of Taylor & Francis, an informa company."

Edward Ruscha: 1958-1970 Academic Press

R MarkdownCRC Press

A User's Guide to the Fall CRC Press

Automate the process of building, training, and deploying machine learning applications to production with AWS solutions such as SageMaker Autopilot, AutoGluon, Step Functions, Amazon Managed Workflows for Apache Airflow, and more Key FeaturesExplore the various AWS services that make automated machine learning easierRecognize the role of DevOps and MLOps methodologies in pipeline automationGet acquainted with additional AWS services such as Step Functions, MWAA, and more to overcome automation challengesBook Description AWS provides a wide range of solutions to help automate a machine learning workflow with just a few lines of code. With this practical book, you'll learn how to automate a machine learning pipeline using the various AWS services. Automated Machine Learning on AWS begins with a quick overview of what the machine learning pipeline/process looks like and highlights the typical challenges that you may face when building a pipeline. Throughout the book, you'll become well versed with various AWS solutions such as Amazon SageMaker Autopilot, AutoGluon, and AWS Step Functions to automate an end-to-end ML process with the help of hands-on examples. The book will show you how to build, monitor, and execute a CI/CD pipeline for the ML process and how the various CI/CD services within AWS can be applied to a use case with the Cloud Development Kit (CDK). You'll understand what a data-centric ML process is by working with the Amazon Managed Services for Apache Airflow and then build a managed Airflow environment. You'll also cover the key success criteria for an MLSDLC implementation and the process of creating a self-mutating CI/CD pipeline using AWS CDK from the perspective of the platform engineering team. By the end of this AWS book, you'll be able to effectively automate a complete machine learning pipeline and deploy it to production. What you will learnEmploy SageMaker Autopilot and Amazon SageMaker SDK to automate the machine learning processUnderstand how to use AutoGluon to automate complicated model building tasksUse the AWS CDK to codify the machine learning processCreate,

deploy, and rebuild a CI/CD pipeline on AWSBuild an ML workflow using AWS Step Functions and the Data Science SDKLeverage the Amazon SageMaker Feature Store to automate the machine learning software development life cycle (MLSDLC)Discover how to use Amazon MWAA for a data-centric ML processWho this book is for This book is for the novice as well as experienced machine learning practitioners looking to automate the process of building, training, and deploying machine learning-based solutions into production, using both purpose-built and other AWS services. A basic understanding of the end-to-end machine learning process and concepts, Python programming, and AWS is necessary to make the most out of this book.