

# amazon Machine Learning



# Amazon Machine Learning

**Julien Simon**

## **Amazon Machine Learning:**

*Learn Amazon SageMaker* Julien Simon, 2021-11-26 Swiftly build and deploy machine learning models without managing infrastructure and boost productivity using the latest Amazon SageMaker capabilities such as Studio Autopilot Data Wrangler Pipelines and Feature Store Key Features Build train and deploy machine learning models quickly using Amazon SageMaker Optimize the accuracy cost and fairness of your models Create and automate end to end machine learning workflows on Amazon Web Services AWS Book Description Amazon SageMaker enables you to quickly build train and deploy machine learning models at scale without managing any infrastructure. It helps you focus on the machine learning problem at hand and deploy high quality models by eliminating the heavy lifting typically involved in each step of the ML process. This second edition will help data scientists and ML developers to explore new features such as SageMaker Data Wrangler Pipelines Clarify Feature Store and much more. You'll start by learning how to use various capabilities of SageMaker as a single toolset to solve ML challenges and progress to cover features such as AutoML built in algorithms and frameworks and writing your own code and algorithms to build ML models. The book will then show you how to integrate Amazon SageMaker with popular deep learning libraries such as TensorFlow and PyTorch to extend the capabilities of existing models. You'll also see how automating your workflows can help you get to production faster with minimum effort and at a lower cost. Finally, you'll explore SageMaker Debugger and SageMaker Model Monitor to detect quality issues in training and production. By the end of this Amazon book you'll be able to use Amazon SageMaker on the full spectrum of ML workflows from experimentation training and monitoring to scaling deployment and automation. What you will learn Become well versed with data annotation and preparation techniques Use AutoML features to build and train machine learning models with AutoPilot Create models using built in algorithms and frameworks and your own code Train computer vision and natural language processing NLP models using real world examples Cover training techniques for scaling model optimization model debugging and cost optimization Automate deployment tasks in a variety of configurations using SDK and several automation tools Who this book is for This book is for software engineers, machine learning developers, data scientists, and AWS users who are new to using Amazon SageMaker and want to build high quality machine learning models without worrying about infrastructure. Knowledge of AWS basics is required to grasp the concepts covered in this book more effectively. A solid understanding of machine learning concepts and the Python programming language will also be beneficial.

**Amazon SageMaker Best Practices** Sireesha Muppala, Randy DeFauw, Shelbee Eigenbrode, 2021-09-24 Overcome advanced challenges in building end to end ML solutions by leveraging the capabilities of Amazon SageMaker for developing and integrating ML models into production. Key Features Learn best practices for all phases of building machine learning solutions from data preparation to monitoring models in production. Automate end to end machine learning workflows with Amazon SageMaker and related AWS Design architect and operate machine learning workloads in the AWS Cloud Book

Description Amazon SageMaker is a fully managed AWS service that provides the ability to build train deploy and monitor machine learning models. The book begins with a high level overview of Amazon SageMaker capabilities that map to the various phases of the machine learning process to help set the right foundation. You'll learn efficient tactics to address data science challenges such as processing data at scale, data preparation, connecting to big data pipelines, identifying data bias, running A/B tests, and model explainability using Amazon SageMaker. As you advance, you'll understand how you can tackle the challenge of training at scale, including how to use large data sets while saving costs, monitoring training resources to identify bottlenecks, speeding up long training jobs, and tracking multiple models trained for a common goal. Moving ahead, you'll find out how you can integrate Amazon SageMaker with other AWS services to build reliable, cost-optimized, and automated machine learning applications. In addition to this, you'll build ML pipelines integrated with MLOps principles and apply best practices to build secure and performant solutions. By the end of the book, you'll confidently be able to apply Amazon SageMaker's wide range of capabilities to the full spectrum of machine learning workflows. What you will learn: Perform data bias detection with AWS Data Wrangler and SageMaker Clarify, Speed up data processing with SageMaker Feature Store, Overcome labeling bias with SageMaker Ground Truth, Improve training time with the monitoring and profiling capabilities of SageMaker Debugger, Address the challenge of model deployment automation with CI/CD using the SageMaker model registry, Explore SageMaker Neo for model optimization, Implement data and model quality monitoring with Amazon Model Monitor, Improve training time and reduce costs with SageMaker data and model parallelism.

Who this book is for: This book is for expert data scientists responsible for building machine learning applications using Amazon SageMaker. Working knowledge of Amazon SageMaker machine learning, deep learning, and experience using Jupyter Notebooks and Python is expected. Basic knowledge of AWS related to data security and monitoring will help you make the most of the book.

*Natural Language Processing with AWS AI Services* Mona M. Premkumar, Rangarajan, Julien Simon, 2021-11-26

Work through interesting real-life business use cases to uncover valuable insights from unstructured text using AWS AI services. Key Features: Get to grips with AWS AI services for NLP and find out how to use them to gain strategic insights, Run Python code to use Amazon Textract and Amazon Comprehend to accelerate business outcomes, Understand how you can integrate human in the loop for custom NLP use cases with Amazon A2I.

Book Description: Natural language processing (NLP) uses machine learning to extract information from unstructured data. This book will help you to move quickly from business questions to high-performance models in production. To start with, you'll understand the importance of NLP in today's business applications and learn the features of Amazon Comprehend and Amazon Textract to build NLP models using Python and Jupyter Notebooks. The book then shows you how to integrate AI in applications for accelerating business outcomes with just a few lines of code. Throughout the book, you'll cover use cases such as smart text search, setting up compliance and controls when processing confidential documents, real-time text analytics, and much more to understand various NLP.

scenarios You'll deploy and monitor scalable NLP models in production for real time and batch requirements As you advance you'll explore strategies for including humans in the loop for different purposes in a document processing workflow Moreover you'll learn best practices for auto scaling your NLP inference for enterprise traffic Whether you're new to ML or an experienced practitioner by the end of this NLP book you'll have the confidence to use AWS AI services to build powerful NLP applications What you will learn Automate various NLP workflows on AWS to accelerate business outcomes Use Amazon Textract for text tables and handwriting recognition from images and PDF files Gain insights from unstructured text in the form of sentiment analysis topic modeling and more using Amazon Comprehend Set up end to end document processing pipelines to understand the role of humans in the loop Develop NLP based intelligent search solutions with just a few lines of code Create both real time and batch document processing pipelines using Python Who this book is for If you're an NLP developer or data scientist looking to get started with AWS AI services to implement various NLP scenarios quickly this book is for you It will show you how easy it is to integrate AI in applications with just a few lines of code A basic understanding of machine learning ML concepts is necessary to understand the concepts covered Experience with Jupyter notebooks and Python will be helpful

**Machine Learning with AWS** Jeffrey Jackovich, Ruze Richards, 2018-11-02 Use artificial intelligence and machine learning on AWS to create engaging applications Key Features Explore popular AI and ML services with their underlying algorithms Use the AWS environment to manage your AI workflow Reinforce key concepts with hands on exercises using real world datasets Book Description Machine Learning with AWS is the right place to start if you are a beginner interested in learning useful artificial intelligence AI and machine learning skills using Amazon Web Services AWS the most popular and powerful cloud platform You will learn how to use AWS to transform your projects into apps that work at high speed and are highly scalable From natural language processing NLP applications such as language translation and understanding news articles and other text sources to creating chatbots with both voice and text interfaces you will learn all that there is to know about using AWS to your advantage You will also understand how to process huge numbers of images fast and create machine learning models By the end of this book you will have developed the skills you need to efficiently use AWS in your machine learning and artificial intelligence projects What you will learn Get up and running with machine learning on the AWS platform Analyze unstructured text using AI and Amazon Comprehend Create a chatbot and interact with it using speech and text input Retrieve external data via your chatbot Develop a natural language interface Apply AI to images and videos with Amazon Rekognition Who this book is for Machine Learning with AWS is ideal for data scientists programmers and machine learning enthusiasts who want to learn about the artificial intelligence and machine learning capabilities of Amazon Web Services

**Automated Machine Learning on AWS** Trenton Potgieter, Jonathan Dahlberg, 2022-04-15 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 [AWS Certified Machine Learning Study Guide](#) Shreyas Subramanian, Stefan Natu, 2021-11-19 Succeed on the AWS Machine Learning exam or in your next job as a machine learning specialist on the AWS Cloud platform with this hands on guide As the most popular cloud service in the world today Amazon Web Services offers a wide range of opportunities for those interested in the development and deployment of artificial intelligence and machine learning business solutions The AWS Certified Machine Learning Study Guide Specialty MLS CO1 Exam delivers hyper focused authoritative instruction for anyone considering the pursuit of the prestigious Amazon Web Services Machine Learning certification or a new career as a machine learning specialist working within the AWS architecture From exam to interview to your first day on the job this study guide provides the domain by domain specific knowledge you need to build train tune and deploy machine

learning models with the AWS Cloud And with the practice exams and assessments electronic flashcards and supplementary online resources that accompany this Study Guide you ll be prepared for success in every subject area covered by the exam You ll also find An intuitive and organized layout perfect for anyone taking the exam for the first time or seasoned professionals seeking a refresher on machine learning on the AWS Cloud Authoritative instruction on a widely recognized certification that unlocks countless career opportunities in machine learning and data science Access to the Sybex online learning resources and test bank with chapter review questions a full length practice exam hundreds of electronic flashcards and a glossary of key terms AWS Certified Machine Learning Study Guide Specialty MLS CO1 Exam is an indispensable guide for anyone seeking to prepare themselves for success on the AWS Certified Machine Learning Specialty exam or for a job interview in the field of machine learning or who wishes to improve their skills in the field as they pursue a career in AWS machine learning

**Machine Learning for Business** Doug Hudgeon, Richard Nichol, 2019-12-24 Summary Imagine predicting which customers are thinking about switching to a competitor or flagging potential process failures before they happen Think about the benefits of forecasting tedious business processes and back office tasks Envision quickly gauging customer sentiment from social media content even large volumes of it Consider the competitive advantage of making decisions when you know the most likely future events Machine learning can deliver these and other advantages to your business and it s never been easier to get started Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology Machine learning can deliver huge benefits for everyday business tasks With some guidance you can get those big wins yourself without complex math or highly paid consultants If you can crunch numbers in Excel you can use modern ML services to efficiently direct marketing dollars identify and keep your best customers and optimize back office processes This book shows you how About the book Machine Learning for Business teaches business oriented machine learning techniques you can do yourself Concentrating on practical topics like customer retention forecasting and back office processes you ll work through six projects that help you form an ML for business mindset To guarantee your success you ll use the Amazon SageMaker ML service which makes it a snap to turn your questions into results What s inside Identifying tasks suited to machine learning Automating back office processes Using open source and cloud based tools Relevant case studies About the reader For technically inclined business professionals or business application developers About the author Doug Hudgeon and Richard Nichol specialize in maximizing the value of business data through AI and machine learning for companies of any size Table of Contents PART 1 MACHINE LEARNING FOR BUSINESS 1 How machine learning applies to your business PART 2 SIX SCENARIOS MACHINE LEARNING FOR BUSINESS 2 Should you send a purchase order to a technical approver 3 Should you call a customer because they are at risk of churning 4 Should an incident be escalated to your support team 5 Should you question an invoice sent by a supplier 6 Forecasting your company s monthly power usage 7 Improving your company s monthly power usage forecast PART 3

MOVING MACHINE LEARNING INTO PRODUCTION 8 Serving predictions over the web 9 Case studies **Hands-On Artificial Intelligence on Amazon Web Services** Subhashini Tripuraneni, Charles Song, 2019-10-04 Perform cloud based machine learning and deep learning using Amazon Web Services such as SageMaker Lex Comprehend Translate and Polly Key Features Explore popular machine learning and deep learning services with their underlying algorithms Discover readily available artificial intelligence AI APIs on AWS like Vision and Language Services Design robust architectures to enable experimentation extensibility and maintainability of AI apps Book Description From data wrangling through to translating text you can accomplish this and more with the artificial intelligence and machine learning services available on AWS With this book you'll work through hands on exercises and learn to use these services to solve real world problems You'll even design, develop, monitor and maintain machine and deep learning models on AWS The book starts with an introduction to AI and its applications in different industries along with an overview of AWS artificial intelligence and machine learning services You'll then get to grips with detecting and translating text with Amazon Rekognition and Amazon Translate The book will assist you in performing speech to text with Amazon Transcribe and Amazon Polly Later you'll discover the use of Amazon Comprehend for extracting information from text and Amazon Lex for building voice chatbots You will also understand the key capabilities of Amazon SageMaker such as wrangling big data, discovering topics in text collections and classifying images Finally you'll cover sales forecasting with deep learning and autoregression before exploring the importance of a feedback loop in machine learning By the end of this book you will have the skills you need to implement AI in AWS through hands on exercises that cover all aspects of the ML model life cycle What you will learn Gain useful insights into different machine and deep learning models Build and deploy robust deep learning systems to production Train machine and deep learning models with diverse infrastructure specifications Scale AI apps without dealing with the complexity of managing the underlying infrastructure Monitor and Manage AI experiments efficiently Create AI apps using AWS pre trained AI services Who this book is for This book is for data scientists, machine learning developers, deep learning researchers and artificial intelligence enthusiasts who want to harness the power of AWS to implement powerful artificial intelligence solutions A basic understanding of machine learning concepts is expected **Effective Amazon Machine Learning** Alexis Perrier, 2017-04-25 Learn to leverage Amazon's powerful platform for your predictive analytics needs About This Book Create great machine learning models that combine the power of algorithms with interactive tools without worrying about the underlying complexity Learn the What's next of machine learning machine learning on the cloud with this unique guide Create web services that allow you to perform affordable and fast machine learning on the cloud Who This Book Is For This book is intended for data scientists and managers of predictive analytics projects it will teach beginner to advanced level machine learning practitioners how to leverage Amazon Machine Learning and complement their existing Data Science toolbox No substantive prior knowledge of Machine Learning Data Science statistics or coding is required What You Will

Learn how to use the Amazon Machine Learning service from scratch for predictive analytics. Gain hands on experience of key Data Science concepts. Solve classic regression and classification problems. Run projects programmatically via the command line and the Python SDK. Leverage the Amazon Web Service ecosystem to access extended data sources. Implement streaming and advanced projects. In Detail Predictive analytics is a complex domain requiring coding skills and an understanding of the mathematical concepts underpinning machine learning algorithms and the ability to create compelling data visualizations. Following AWS simplifying Machine learning this book will help you bring predictive analytics projects to fruition in three easy steps: data preparation, model tuning and model selection. This book will introduce you to the Amazon Machine Learning platform and will implement core data science concepts such as classification, regression, regularization, overfitting, model selection and evaluation. Furthermore you will learn to leverage the Amazon Web Service AWS ecosystem for extended access to data sources, implement real-time predictions and run Amazon Machine Learning projects via the command line and the Python SDK. Towards the end of the book you will also learn how to apply these services to other problems such as text mining and to more complex datasets. Style and approach: This book will include use cases you can relate to. In a very practical manner you will explore the various capabilities of Amazon Machine Learning services, allowing you to implement them in your environment with consummate ease.

**AWS Certified Machine Learning Specialty: MLS-C01 Certification Guide** Somanath Nanda, Weslley Moura, 2021-03-19. Prepare to achieve AWS Machine Learning Specialty certification with this complete, up-to-date guide and take the exam with confidence. Key Features: Get to grips with core machine learning algorithms along with AWS implementation. Build model training and inference pipelines and deploy machine learning models to the Amazon Web Services AWS cloud. Learn all about the AWS services available for machine learning in order to pass the MLS-C01 exam. Book Description: The AWS Certified Machine Learning Specialty exam tests your competency to perform machine learning ML on AWS infrastructure. This book covers the entire exam syllabus using practical examples to help you with your real-world machine learning projects on AWS. Starting with an introduction to machine learning on AWS, you'll learn the fundamentals of machine learning and explore important AWS services for artificial intelligence AI. You'll then see how to prepare data for machine learning and discover a wide variety of techniques for data manipulation and transformation for different types of variables. The book also shows you how to handle missing data and outliers and takes you through various machine learning tasks such as classification, regression, clustering, forecasting, anomaly detection, text mining, and image processing, along with the specific ML algorithms you need to know to pass the exam. Finally, you'll explore model evaluation, optimization, and deployment and get to grips with deploying models in a production environment and monitoring them. By the end of this book, you'll have gained knowledge of the key challenges in machine learning and the solutions that AWS has released for each of them, along with the tools, methods, and techniques commonly used in each domain of AWS ML. What you will learn: Understand all four domains covered in the exam, along with

types of questions exam duration and scoring Become well versed with machine learning terminologies methodologies frameworks and the different AWS services for machine learning Get to grips with data preparation and using AWS services for batch and real time data processing Explore the built in machine learning algorithms in AWS and build and deploy your own models Evaluate machine learning models and tune hyperparameters Deploy machine learning models with the AWS infrastructure Who this book is for This AWS book is for professionals and students who want to prepare for and pass the AWS Certified Machine Learning Specialty exam or gain deeper knowledge of machine learning with a special focus on AWS Beginner level knowledge of machine learning and AWS services is necessary before getting started with this book

*Mastering Machine Learning on AWS* Dr. Saket S.R. Mengle,Maximo Gurmendez,2019-05-20 Gain expertise in ML techniques with AWS to create interactive apps using SageMaker Apache Spark and TensorFlow Key FeaturesBuild machine learning apps on Amazon Web Services AWS using SageMaker Apache Spark and TensorFlowLearn model optimization and understand how to scale your models using simple and secure APIsDevelop train tune and deploy neural network models to accelerate model performance in the cloudBook Description AWS is constantly driving new innovations that empower data scientists to explore a variety of machine learning ML cloud services This book is your comprehensive reference for learning and implementing advanced ML algorithms in AWS cloud As you go through the chapters you ll gain insights into how these algorithms can be trained tuned and deployed in AWS using Apache Spark on Elastic Map Reduce EMR SageMaker and TensorFlow While you focus on algorithms such as XGBoost linear models factorization machines and deep nets the book will also provide you with an overview of AWS as well as detailed practical applications that will help you solve real world problems Every practical application includes a series of companion notebooks with all the necessary code to run on AWS In the next few chapters you will learn to use SageMaker and EMR Notebooks to perform a range of tasks right from smart analytics and predictive modeling through to sentiment analysis By the end of this book you will be equipped with the skills you need to effectively handle machine learning projects and implement and evaluate algorithms on AWS What you will learnManage AI workflows by using AWS cloud to deploy services that feed smart data productsUse SageMaker services to create recommendation modelsScale model training and deployment using Apache Spark on EMRUnderstand how to cluster big data through EMR and seamlessly integrate it with SageMakerBuild deep learning models on AWS using TensorFlow and deploy them as servicesEnhance your apps by combining Apache Spark and Amazon SageMakerWho this book is for This book is for data scientists machine learning developers deep learning enthusiasts and AWS users who want to build advanced models and smart applications on the cloud using AWS and its integration services Some understanding of machine learning concepts Python programming and AWS will be beneficial **Data Science on AWS** Chris Fregly, Antje Barth,2021-04-07 With this practical book AI and machine learning practitioners will learn how to successfully build and deploy data science projects on Amazon Web Services The Amazon AI and machine learning stack unifies data science data engineering and

application development to help level up your skills This guide shows you how to build and run pipelines in the cloud then integrate the results into applications in minutes instead of days Throughout the book authors Chris Fregly and Antje Barth demonstrate how to reduce cost and improve performance Apply the Amazon AI and ML stack to real world use cases for natural language processing computer vision fraud detection conversational devices and more Use automated machine learning to implement a specific subset of use cases with SageMaker Autopilot Dive deep into the complete model development lifecycle for a BERT based NLP use case including data ingestion analysis model training and deployment Tie everything together into a repeatable machine learning operations pipeline Explore real time ML anomaly detection and streaming analytics on data streams with Amazon Kinesis and Managed Streaming for Apache Kafka Learn security best practices for data science projects and workflows including identity and access management authentication authorization and more

*Machine Learning in the AWS Cloud* Abhishek Mishra, 2019-09-11 Put the power of AWS Cloud machine learning services to work in your business and commercial applications Machine Learning in the AWS Cloud introduces readers to the machine learning ML capabilities of the Amazon Web Services ecosystem and provides practical examples to solve real world regression and classification problems While readers do not need prior ML experience they are expected to have some knowledge of Python and a basic knowledge of Amazon Web Services Part One introduces readers to fundamental machine learning concepts You will learn about the types of ML systems how they are used and challenges you may face with ML solutions Part Two focuses on machine learning services provided by Amazon Web Services You'll be introduced to the basics of cloud computing and AWS offerings in the cloud based machine learning space Then you'll learn to use Amazon Machine Learning to solve a simpler class of machine learning problems and Amazon SageMaker to solve more complex problems Learn techniques that allow you to preprocess data basic feature engineering visualizing data and model building Discover common neural network frameworks with Amazon SageMaker Solve computer vision problems with Amazon Rekognition Benefit from illustrations source code examples and sidebars in each chapter The book appeals to both Python developers and technical solution architects Developers will find concrete examples that show them how to perform common ML tasks with Python on AWS Technical solution architects will find useful information on the machine learning capabilities of the AWS ecosystem

*Machine Learning with Amazon SageMaker Cookbook* Joshua Arvin Lat, 2021-10-29 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 *Getting Started with Amazon SageMaker Studio* Michael Hsieh, 2022-03-31 Build production grade machine learning models with Amazon SageMaker Studio the first integrated development environment in the cloud using real life machine learning examples and code Key FeaturesUnderstand the ML lifecycle in the cloud and its development on Amazon SageMaker StudioLearn to apply SageMaker features in SageMaker Studio for ML use casesScale and operationalize the ML lifecycle effectively using SageMaker StudioBook Description Amazon SageMaker Studio is the first integrated development environment IDE for machine learning ML and is designed to integrate ML workflows data preparation feature engineering statistical bias detection automated machine learning AutoML training hosting ML explainability monitoring and MLOps in one environment In this book you ll start by exploring the features available in Amazon SageMaker Studio to analyze data develop ML models and productionize models to meet your goals As you progress you will learn how these features work together to address common challenges when building ML models in production After that you ll understand how to effectively scale and operationalize the ML life cycle using SageMaker Studio By the end of this book you ll have learned ML best practices regarding Amazon SageMaker Studio as well as being able to improve productivity in the ML development life cycle and build and deploy models easily for your ML use cases What you will learnExplore the ML development life cycle in the

Understand SageMaker Studio features and the user interface Build a dataset with clicks and host a feature store for ML Train ML models with ease and scale Create ML models and solutions with little code Host ML models in the cloud with optimal cloud resources Ensure optimal model performance with model monitoring Apply governance and operational excellence to ML projects Who this book is for This book is for data scientists and machine learning engineers who are looking to become well versed with Amazon SageMaker Studio and gain hands on machine learning experience to handle every step in the ML lifecycle including building data as well as training and hosting models Although basic knowledge of machine learning and data science is necessary no previous knowledge of SageMaker Studio and cloud experience is required

### **Accelerate Deep Learning Workloads with Amazon SageMaker**

Vadim Dabrowski, 2022-10-28 Plan and design model serving infrastructure to run and troubleshoot distributed deep learning training jobs for improved model performance Key Features Explore key Amazon SageMaker capabilities in the context of deep learning Train and deploy deep learning models using SageMaker managed capabilities and optimize your deep learning workloads Cover in detail the theoretical and practical aspects of training and hosting your deep learning models on Amazon SageMaker Book Description Over the past 10 years deep learning has grown from being an academic research field to seeing wide scale adoption across multiple industries Deep learning models demonstrate excellent results on a wide range of practical tasks underpinning emerging fields such as virtual assistants autonomous driving and robotics In this book you will learn about the practical aspects of designing building and optimizing deep learning workloads on Amazon SageMaker The book also provides end to end implementation examples for popular deep learning tasks such as computer vision and natural language processing You will begin by exploring key Amazon SageMaker capabilities in the context of deep learning Then you will explore in detail the theoretical and practical aspects of training and hosting your deep learning models on Amazon SageMaker You will learn how to train and serve deep learning models using popular open source frameworks and understand the hardware and software options available for you on Amazon SageMaker The book also covers various optimizations technique to improve the performance and cost characteristics of your deep learning workloads By the end of this book you will be fluent in the software and hardware aspects of running deep learning workloads using Amazon SageMaker What you will learn Cover key capabilities of Amazon SageMaker relevant to deep learning workloads Organize SageMaker development environment Prepare and manage datasets for deep learning training Design debug and implement the efficient training of deep learning models Deploy monitor and optimize the serving of DL models Who this book is for This book is relevant for ML engineers who work on deep learning model development and training and for Solutions Architects who design and optimize end to end deep learning workloads It assumes familiarity with the Python ecosystem principles of Machine Learning and Deep Learning and basic knowledge of the AWS cloud

**Effective Amazon Machine Learning** Alexis Perrier, 2017-04-25 Learn to leverage Amazon's powerful platform for your predictive analytics needs About This Book Create great machine

learning models that combine the power of algorithms with interactive tools without worrying about the underlying complexity Learn the What's next of machine learning machine learning on the cloud with this unique guide Create web services that allow you to perform affordable and fast machine learning on the cloud Who This Book Is For This book is intended for data scientists and managers of predictive analytics projects it will teach beginner to advanced level machine learning practitioners how to leverage Amazon Machine Learning and complement their existing Data Science toolbox No substantive prior knowledge of Machine Learning Data Science statistics or coding is required What You Will Learn Learn how to use the Amazon Machine Learning service from scratch for predictive analytics Gain hands on experience of key Data Science concepts Solve classic regression and classification problems Run projects programmatically via the command line and the Python SDK Leverage the Amazon Web Service ecosystem to access extended data sources Implement streaming and advanced projects In Detail Predictive analytics is a complex domain requiring coding skills an understanding of the mathematical concepts underpinning machine learning algorithms and the ability to create compelling data visualizations Following AWS simplifying Machine learning this book will help you bring predictive analytics projects to fruition in three easy steps data preparation model tuning and model selection This book will introduce you to the Amazon Machine Learning platform and will implement core data science concepts such as classification regression regularization overfitting model selection and evaluation Furthermore you will learn to leverage the Amazon Web Service AWS ecosystem for extended access to data sources implement realtime predictions and run Amazon Machine Learning projects via the command line and the Python SDK Towards the end of the book you will also learn how to apply these services to other problems such as text mining and to more complex datasets Style and approach This book will include use cases you can relate to In a very practical manner you will explore the various capabilities of Amazon Machine Learning services allowing you to implementing them in your environment with consummate ease

**Introduction to Amazon Machine Learning** Dan Moore, 2017 This course shows you how to build a model using Amazon Machine Learning Amazon ML and use it to make predictions AWS expert Dan Moore covers the basic types of machine learning how to prepare your data and how to make your data available to the Amazon Machine Learning processes You'll also learn about evaluating a model for accuracy using it both for batch and real time predictions and using tags to manage environments Designed for developers and technical marketers new to machine learning and for data scientists interested in using the AWS Amazon ML platform the course provides hands on experience building a working predictive model using real data Learners should obtain an AWS account free from Amazon and a basic understanding of AWS concepts before beginning the course Understand how to prepare data for use with Amazon ML and how to navigate the console Learn how to make real time and batch predictions using Python and the Amazon Machine Learning console Become familiar with advanced machine learning system management concepts like tagging and the model life cycle Develop an awareness of model accuracy and learn to use tools for evaluating and

comparing accuracy Dan Moore runs Boulder Colorado based Moore Consulting where he builds Amazon Machine Learning models for purposes such as predicting real estate valuations and estimating equipment utilization Dan is an Amazon Web Services AWS trainer who has worked with AWS since 2008 He holds AWS certifications as a Solutions Architect AWS Certified Developer and SysOps Administrator

**Time Series Analysis on AWS** Michaël Hoarau,2022-02-28

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## Whispering the Techniques of Language: An Emotional Journey through **Amazon Machine Learning**

In a digitally-driven world wherever monitors reign supreme and quick conversation drowns out the subtleties of language, the profound techniques and psychological subtleties hidden within words often go unheard. Yet, set within the pages of **Amazon Machine Learning** a charming literary value pulsating with natural feelings, lies a fantastic journey waiting to be undertaken. Penned by a talented wordsmith, this marvelous opus invites readers on an introspective trip, lightly unraveling the veiled truths and profound affect resonating within the very cloth of every word. Within the emotional depths of this touching evaluation, we can embark upon a heartfelt exploration of the book's primary themes, dissect its interesting writing design, and fail to the powerful resonance it evokes heavy within the recesses of readers' hearts.

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