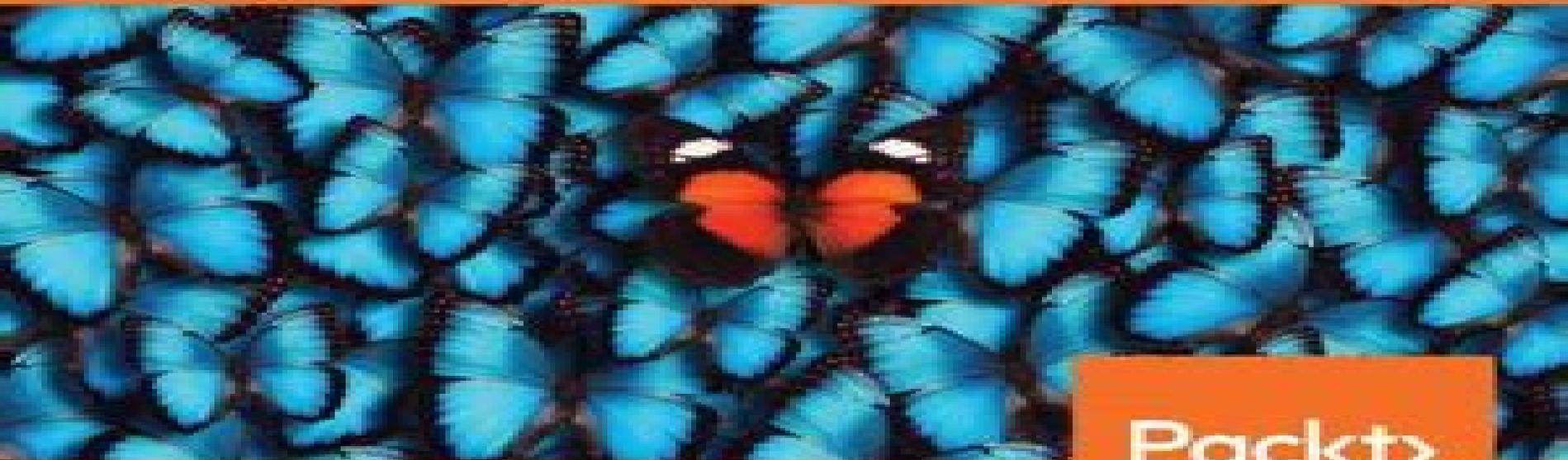


# TensorFlow Machine Learning

## Cookbook

Second Edition

Over 60 recipes to build intelligent machine learning systems  
with the power of Python



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By Nick McClure

# Tensorflow Machine Learning Cookbook

**Antonio Gulli, Amita Kapoor**



## **Tensorflow Machine Learning Cookbook:**

**TensorFlow Machine Learning Cookbook** Nick McClure, 2017-02-14 Explore machine learning concepts using the latest numerical computing library TensorFlow with the help of this comprehensive cookbook About This Book Your quick guide to implementing TensorFlow in your day to day machine learning activities Learn advanced techniques that bring more accuracy and speed to machine learning Upgrade your knowledge to the second generation of machine learning with this guide on TensorFlow Who This Book Is For This book is ideal for data scientists who are familiar with C or Python and perform machine learning activities on a day to day basis Intermediate and advanced machine learning implementers who need a quick guide they can easily navigate will find it useful What You Will Learn Become familiar with the basics of the TensorFlow machine learning library Get to know Linear Regression techniques with TensorFlow Learn SVMs with hands on recipes Implement neural networks and improve predictions Apply NLP and sentiment analysis to your data Master CNN and RNN through practical recipes Take TensorFlow into production In Detail TensorFlow is an open source software library for Machine Intelligence The independent recipes in this book will teach you how to use TensorFlow for complex data computations and will let you dig deeper and gain more insights into your data than ever before You ll work through recipes on training models model evaluation sentiment analysis regression analysis clustering analysis artificial neural networks and deep learning each using Google s machine learning library TensorFlow This guide starts with the fundamentals of the TensorFlow library which includes variables matrices and various data sources Moving ahead you will get hands on experience with Linear Regression techniques with TensorFlow The next chapters cover important high level concepts such as neural networks CNN RNN and NLP Once you are familiar and comfortable with the TensorFlow ecosystem the last chapter will show you how to take it to production Style and approach This book takes a recipe based approach where every topic is explicated with the help of a real world example [Machine Learning Using TensorFlow Cookbook](#) Alexia Audevert, Konrad Banachewicz, Luca Massaron, 2021-02-08 Comprehensive recipes to give you valuable insights on Transformers Reinforcement Learning and more Key Features Deep Learning solutions from Kaggle Masters and Google Developer Experts Get to grips with the fundamentals including variables matrices and data sources Learn advanced techniques to make your algorithms faster and more accurate Book Description The independent recipes in Machine Learning Using TensorFlow Cookbook will teach you how to perform complex data computations and gain valuable insights into your data Dive into recipes on training models model evaluation sentiment analysis regression analysis artificial neural networks and deep learning each using Google s machine learning library TensorFlow This cookbook covers the fundamentals of the TensorFlow library including variables matrices and various data sources You ll discover real world implementations of Keras and TensorFlow and learn how to use estimators to train linear models and boosted trees both for classification and regression Explore the practical applications of a variety of deep learning architectures such as recurrent neural networks

and Transformers and see how they can be used to solve computer vision and natural language processing NLP problems With the help of this book you will be proficient in using TensorFlow understand deep learning from the basics and be able to implement machine learning algorithms in real world scenarios What you will learn Take TensorFlow into production Implement and fine tune Transformer models for various NLP tasks Apply reinforcement learning algorithms using the TF Agents framework Understand linear regression techniques and use Estimators to train linear models Execute neural networks and improve predictions on tabular data Master convolutional neural networks and recurrent neural networks through practical recipes Who this book is for If you are a data scientist or a machine learning engineer and you want to skip detailed theoretical explanations in favor of building production ready machine learning models using TensorFlow this book is for you Basic familiarity with Python linear algebra statistics and machine learning is necessary to make the most out of this book *Machine Learning Using Tensorflow Cookbook* Alexia Audevert, Konrad Banachewicz, Luca Massaron, 2021

*TensorFlow Machine Learning Cookbook - Second Edition* Nick McClure, 2018 Skip the theory and get the most out of Tensorflow to build production ready machine learning models Key Features Exploit the features of Tensorflow to build and deploy machine learning models Train neural networks to tackle real world problems in Computer Vision and NLP Handy techniques to write production ready code for your Tensorflow models Book Description TensorFlow is an open source software library for Machine Intelligence The independent recipes in this book will teach you how to use TensorFlow for complex data computations and allow you to dig deeper and gain more insights into your data than ever before With the help of this book you will work with recipes for training models model evaluation sentiment analysis regression analysis clustering analysis artificial neural networks and more You will explore RNNs CNNs GANs reinforcement learning and capsule networks each using Google s machine learning library TensorFlow Through real world examples you will get hands on experience with linear regression techniques with TensorFlow Once you are familiar and comfortable with the TensorFlow ecosystem you will be shown how to take it to production By the end of the book you will be proficient in the field of machine intelligence using TensorFlow You will also have good insight into deep learning and be capable of implementing machine learning algorithms in real world scenarios What you will learn Become familiar with the basic features of the TensorFlow library Get to know Linear Regression techniques with TensorFlow Learn SVMs with hands on recipes Implement neural networks to improve predictive modeling Apply NLP and sentiment analysis to your data Master CNN and RNN through practical recipes Implement the gradient boosted random forest to predict housing prices Take TensorFlow into production Who this book is for If you are a data scientist or a machine learning engineer with some knowledge of linear algebra statistics and machine learning this book is for you If you want to skip the theory and build production ready machine learning models using Tensorflow without reading pages and pages of material this book is for you Some background in Python programming is assumed Downloading the example code for this book You can download the example code files for

all Packt books you have purchased from your account at <http://www.PacktPub.com> If you purchased this book elsewhere you can visit <http://www.PacktPub.com> s *TensorFlow 1.x Deep Learning Cookbook* Antonio Gulli,Amita Kapoor,2017-12-12

Take the next step in implementing various common and not so common neural networks with Tensorflow 1 x About This Book Skill up and implement tricky neural networks using Google s TensorFlow 1 x An easy to follow guide that lets you explore reinforcement learning GANs autoencoders multilayer perceptrons and more Hands on recipes to work with Tensorflow on desktop mobile and cloud environment Who This Book Is For This book is intended for data analysts data scientists machine learning practitioners and deep learning enthusiasts who want to perform deep learning tasks on a regular basis and are looking for a handy guide they can refer to People who are slightly familiar with neural networks and now want to gain expertise in working with different types of neural networks and datasets will find this book quite useful What You Will Learn Install TensorFlow and use it for CPU and GPU operations Implement DNNs and apply them to solve different AI driven problems Leverage different data sets such as MNIST CIFAR 10 and Youtube8m with TensorFlow and learn how to access and use them in your code Use TensorBoard to understand neural network architectures optimize the learning process and peek inside the neural network black box Use different regression techniques for prediction and classification problems Build single and multilayer perceptrons in TensorFlow Implement CNN and RNN in TensorFlow and use it to solve real world use cases Learn how restricted Boltzmann Machines can be used to recommend movies Understand the implementation of Autoencoders and deep belief networks and use them for emotion detection Master the different reinforcement learning methods to implement game playing agents GANs and their implementation using TensorFlow In Detail Deep neural networks DNNs have achieved a lot of success in the field of computer vision speech recognition and natural language processing The entire world is filled with excitement about how deep networks are revolutionizing artificial intelligence This exciting recipe based guide will take you from the realm of DNN theory to implementing them practically to solve the real life problems in artificial intelligence domain In this book you will learn how to efficiently use TensorFlow Google s open source framework for deep learning You will implement different deep learning networks such as Convolutional Neural Networks CNNs Recurrent Neural Networks RNNs Deep Q learning Networks DQNs and Generative Adversarial Networks GANs with easy to follow independent recipes You will learn how to make Keras as backend with TensorFlow With a problem solution approach you will understand how to implement different deep neural architectures to carry out complex tasks at work You will learn the performance of different DNNs on some popularly used data sets such as MNIST CIFAR 10 Youtube8m and more You will not only learn about the different mobile and embedded platforms supported by TensorFlow but also how to set up cloud platforms for deep learning applications Get a sneak peek of TPU architecture and how they will affect DNN future By using crisp no nonsense recipes you will become an expert in implementing deep learning techniques in growing real world applications and research areas such as reinforcement learning GANs

autoencoders and more Style and approach This book consists of hands on recipes where you ll deal with real world problems You ll execute a series of tasks as you walk through data mining challenges using TensorFlow 1 x Your one stop solution for common and not so common pain points this is a book that you must have on the shelf **TensorFlow Machine Learning Cookbook** Nick McClure,2018-08-31 Skip the theory and get the most out of Tensorflow to build production ready machine learning models Key Features Exploit the features of Tensorflow to build and deploy machine learning models Train neural networks to tackle real world problems in Computer Vision and NLP Handy techniques to write production ready code for your Tensorflow models Book Description TensorFlow is an open source software library for Machine Intelligence The independent recipes in this book will teach you how to use TensorFlow for complex data computations and allow you to dig deeper and gain more insights into your data than ever before With the help of this book you will work with recipes for training models model evaluation sentiment analysis regression analysis clustering analysis artificial neural networks and more You will explore RNNs CNNs GANs reinforcement learning and capsule networks each using Google s machine learning library TensorFlow Through real world examples you will get hands on experience with linear regression techniques with TensorFlow Once you are familiar and comfortable with the TensorFlow ecosystem you will be shown how to take it to production By the end of the book you will be proficient in the field of machine intelligence using TensorFlow You will also have good insight into deep learning and be capable of implementing machine learning algorithms in real world scenarios What you will learn Become familiar with the basic features of the TensorFlow library Get to know Linear Regression techniques with TensorFlow Learn SVMs with hands on recipes Implement neural networks to improve predictive modeling Apply NLP and sentiment analysis to your data Master CNN and RNN through practical recipes Implement the gradient boosted random forest to predict housing prices Take TensorFlow into production Who this book is for If you are a data scientist or a machine learning engineer with some knowledge of linear algebra statistics and machine learning this book is for you If you want to skip the theory and build production ready machine learning models using Tensorflow without reading pages and pages of material this book is for you Some background in Python programming is assumed **TensorFlow Machine Learning Cookbook** Nick McClure,2017 **TensorFlow 2.0 Computer Vision Cookbook** Jesus Martinez,2021-02-26 Get well versed with state of the art techniques to tailor training processes and boost the performance of computer vision models using machine learning and deep learning techniques Key FeaturesDevelop train and use deep learning algorithms for computer vision tasks using TensorFlow 2 xDiscover practical recipes to overcome various challenges faced while building computer vision modelsEnable machines to gain a human level understanding to recognize and analyze digital images and videosBook Description Computer vision is a scientific field that enables machines to identify and process digital images and videos This book focuses on independent recipes to help you perform various computer vision tasks using TensorFlow The book begins by taking you through the basics of deep learning for computer vision along with covering

TensorFlow 2 x s key features such as the Keras and tf data Dataset APIs You ll then learn about the ins and outs of common computer vision tasks such as image classification transfer learning image enhancing and styling and object detection The book also covers autoencoders in domains such as inverse image search indexes and image denoising while offering insights into various architectures used in the recipes such as convolutional neural networks CNNs region based CNNs R CNNs VGGNet and You Only Look Once YOLO Moving on you ll discover tips and tricks to solve any problems faced while building various computer vision applications Finally you ll delve into more advanced topics such as Generative Adversarial Networks GANs video processing and AutoML concluding with a section focused on techniques to help you boost the performance of your networks By the end of this TensorFlow book you ll be able to confidently tackle a wide range of computer vision problems using TensorFlow 2 x What you will learn Understand how to detect objects using state of the art models such as YOLOv3 Use AutoML to predict gender and age from images Segment images using different approaches such as FCNs and generative models Learn how to improve your network s performance using rank N accuracy label smoothing and test time augmentation Enable machines to recognize people s emotions in videos and real time streams Access and reuse advanced TensorFlow Hub models to perform image classification and object detection Generate captions for images using CNNs and RNNs Who this book is for This book is for computer vision developers and engineers as well as deep learning practitioners looking for go to solutions to various problems that commonly arise in computer vision You will discover how to employ modern machine learning ML techniques and deep learning architectures to perform a plethora of computer vision tasks Basic knowledge of Python programming and computer vision is required *Artificial Intelligence with Python Cookbook* Ben Auffarth, 2020-10-30 Work through practical recipes to learn how to solve complex machine learning and deep learning problems using Python Key Features Get up and running with artificial intelligence in no time using hands on problem solving recipes Explore popular Python libraries and tools to build AI solutions for images text sounds and images Implement NLP reinforcement learning deep learning GANs Monte Carlo tree search and much more Book Description Artificial intelligence AI plays an integral role in automating problem solving This involves predicting and classifying data and training agents to execute tasks successfully This book will teach you how to solve complex problems with the help of independent and insightful recipes ranging from the essentials to advanced methods that have just come out of research *Artificial Intelligence with Python Cookbook* starts by showing you how to set up your Python environment and taking you through the fundamentals of data exploration Moving ahead you ll be able to implement heuristic search techniques and genetic algorithms In addition to this you ll apply probabilistic models constraint optimization and reinforcement learning As you advance through the book you ll build deep learning models for text images video and audio and then delve into algorithmic bias style transfer music generation and AI use cases in the healthcare and insurance industries Throughout the book you ll learn about a variety of tools for problem solving and gain the knowledge needed to effectively approach complex problems

By the end of this book on AI you will have the skills you need to write AI and machine learning algorithms test them and deploy them for production What you will learn Implement data preprocessing steps and optimize model hyperparameters Delve into representational learning with adversarial autoencoders Use active learning recommenders knowledge embedding and SAT solvers Get to grips with probabilistic modeling with TensorFlow probability Run object detection text to speech conversion and text and music generation Apply swarm algorithms multi agent systems and graph networks Go from proof of concept to production by deploying models as microservices Understand how to use modern AI in practice Who this book is for This AI machine learning book is for Python developers data scientists machine learning engineers and deep learning practitioners who want to learn how to build artificial intelligence solutions with easy to follow recipes You ll also find this book useful if you re looking for state of the art solutions to perform different machine learning tasks in various use cases Basic working knowledge of the Python programming language and machine learning concepts will help you to work with code effectively in this book

**Keras Deep Learning Cookbook** Rajdeep Dua, Manpreet Singh Ghotra, 2018-10-31 Leverage the power of deep learning and Keras to develop smarter and more efficient data models Key Features Understand different neural networks and their implementation using Keras Explore recipes for training and fine tuning your neural network models Put your deep learning knowledge to practice with real world use cases tips and tricks Book Description Keras has quickly emerged as a popular deep learning library Written in Python it allows you to train convolutional as well as recurrent neural networks with speed and accuracy The Keras Deep Learning Cookbook shows you how to tackle different problems encountered while training efficient deep learning models with the help of the popular Keras library Starting with installing and setting up Keras the book demonstrates how you can perform deep learning with Keras in the TensorFlow From loading data to fitting and evaluating your model for optimal performance you will work through a step by step process to tackle every possible problem faced while training deep models You will implement convolutional and recurrent neural networks adversarial networks and more with the help of this handy guide In addition to this you will learn how to train these models for real world image and language processing tasks By the end of this book you will have a practical hands on understanding of how you can leverage the power of Python and Keras to perform effective deep learning What you will learn Install and configure Keras in TensorFlow Master neural network programming using the Keras library Understand the different Keras layers Use Keras to implement simple feed forward neural networks CNNs and RNNs Work with various datasets and models used for image and text classification Develop text summarization and reinforcement learning models using Keras Who this book is for Keras Deep Learning Cookbook is for you if you are a data scientist or machine learning expert who wants to find practical solutions to common problems encountered while training deep learning models A basic understanding of Python and some experience in machine learning and neural networks is required for this book

**TensorFlow 2 Reinforcement Learning Cookbook** Praveen Palanisamy, 2021-01-15 Discover

recipes for developing AI applications to solve a variety of real world business problems using reinforcement learning

**Key Features**

- Develop and deploy deep reinforcement learning based solutions to production pipelines products and services
- Explore popular reinforcement learning algorithms such as Q learning SARSA and the actor critic method
- Customize and build RL based applications for performing real world tasks

**Book Description** With deep reinforcement learning you can build intelligent agents products and services that can go beyond computer vision or perception to perform actions

TensorFlow 2 x is the latest major release of the most popular deep learning framework used to develop and train deep neural networks DNNs This book contains easy to follow recipes for leveraging TensorFlow 2 x to develop artificial intelligence applications

Starting with an introduction to the fundamentals of deep reinforcement learning and TensorFlow 2 x the book covers OpenAI Gym model based RL model free RL and how to develop basic agents You ll discover how to implement advanced deep reinforcement learning algorithms such as actor critic deep deterministic policy gradients deep Q networks proximal policy optimization and deep recurrent Q networks for training your RL agents As you advance you ll explore the applications of reinforcement learning by building cryptocurrency trading agents stock share trading agents and intelligent agents for automating task completion Finally you ll find out how to deploy deep reinforcement learning agents to the cloud and build cross platform apps using TensorFlow 2 x

By the end of this TensorFlow book you ll have gained a solid understanding of deep reinforcement learning algorithms and their implementations from scratch

What you will learn

- Build deep reinforcement learning agents from scratch using the all new TensorFlow 2 x and Keras API
- Implement state of the art deep reinforcement learning algorithms using minimal code
- Build train and package deep RL agents for cryptocurrency and stock trading
- Deploy RL agents to the cloud and edge to test them by creating desktop web and mobile apps and cloud services
- Speed up agent development using distributed DNN model training
- Explore distributed deep RL architectures and discover opportunities in AIaaS AI as a Service

Who this book is for

The book is for machine learning application developers AI and applied AI researchers data scientists deep learning practitioners and students with a basic understanding of reinforcement learning concepts who want to build train and deploy their own reinforcement learning systems from scratch using TensorFlow 2 x

*Deep Learning and its Applications using Python* Niha Kamal Basha,Surbhi Bhatia Khan,Abhishek Kumar,Arwa Mashat,2023-10-31 This book thoroughly explains deep learning models and how to use Python programming to implement them in applications such as NLP face detection face recognition face analysis and virtual assistance chatbot machine translation etc It provides hands on guidance in using Python for implementing deep learning application models It also identifies future research directions for deep learning

**Deep Learning for Beginners with TensorFlow** Mark Smart,2018-09-13 This book is an exploration of deep learning in Python using TensorFlow The author guides you on how to create machine learning models using TensorFlow You will know the initial steps of getting started with TensorFlow in Python This involves installing TensorFlow and writing your first code TensorFlow works using the concept of

graphs The author helps you know how expressions are represented into graphs in TensorFlow Deep learning in Python with TensorFlow simply involves the creation of neural network models The author helps you understand how to create neural network models with TensorFlow You are guided on how to train such models with data of various types Examples of such data include images and text The process of loading your own data into TensorFlow for training neural network models has also been discussed You will also know how to use the inbuilt data for training your neural network models You will learn from this book Getting started Building a Neural Network Working with Images Importing Data Subjects include tensorflow python deep learning with python tensorflow machine learning tensor flow tensorflow deep learning cookbook tensorflow for deep learning tensorflow for dummies tensorflow books machine learning with tensorflow tensorflow c concept of graphs neural network neural networks python tensorflow with neural network

*Machine Learning with TensorFlow, Second Edition* Chris Mattmann, 2020-12-23 Updated with new code new projects and new chapters Machine Learning with TensorFlow Second Edition gives readers a solid foundation in machine learning concepts and the TensorFlow library Summary Updated with new code new projects and new chapters Machine Learning with TensorFlow Second Edition gives readers a solid foundation in machine learning concepts and the TensorFlow library Written by NASA JPL Deputy CTO and Principal Data Scientist Chris Mattmann all examples are accompanied by downloadable Jupyter Notebooks for a hands on experience coding TensorFlow with Python New and revised content expands coverage of core machine learning algorithms and advancements in neural networks such as VGG Face facial identification classifiers and deep speech classifiers Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology Supercharge your data analysis with machine learning ML algorithms automatically improve as they process data so results get better over time You don t have to be a mathematician to use ML Tools like Google s TensorFlow library help with complex calculations so you can focus on getting the answers you need About the book Machine Learning with TensorFlow Second Edition is a fully revised guide to building machine learning models using Python and TensorFlow You ll apply core ML concepts to real world challenges such as sentiment analysis text classification and image recognition Hands on examples illustrate neural network techniques for deep speech processing facial identification and auto encoding with CIFAR 10 What s inside Machine Learning with TensorFlow Choosing the best ML approaches Visualizing algorithms with TensorBoard Sharing results with collaborators Running models in Docker About the reader Requires intermediate Python skills and knowledge of general algebraic concepts like vectors and matrices Examples use the super stable 1.15.x branch of TensorFlow and TensorFlow 2.x About the author Chris Mattmann is the Division Manager of the Artificial Intelligence Analytics and Innovation Organization at NASA Jet Propulsion Lab The first edition of this book was written by Nishant Shukla with Kenneth Fricklas

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*R Deep Learning Cookbook* Dr PKS Prakash,Achyutuni Sri Krishna Rao,2017

**Python Machine Learning Cookbook** Giuseppe Ciaburro,Prateek Joshi,2019-03-30 Discover powerful ways to effectively solve real world machine learning problems using key libraries including scikit learn TensorFlow and PyTorch Key FeaturesLearn and implement machine learning algorithms in a variety of real life scenariosCover a range of tasks catering to supervised unsupervised and reinforcement learning techniquesFind easy to follow code solutions for tackling common and not so common challengesBook Description This eagerly anticipated second edition of the popular Python Machine Learning Cookbook will enable you to adopt a fresh approach to dealing with real world machine learning and deep learning tasks With the help of over 100 recipes you will learn to build powerful machine learning applications using modern libraries from the Python ecosystem The book will also guide you on how to implement various machine learning algorithms for classification clustering and recommendation engines using a recipe based approach With emphasis on practical solutions dedicated sections in the book will help you to apply supervised and unsupervised learning techniques to real world problems Toward the concluding chapters you will get to grips with recipes that teach you advanced techniques including reinforcement learning deep neural networks and automated machine learning By the end of this book you will be equipped with the skills you need to apply machine learning techniques and leverage the full capabilities of the Python ecosystem through real world examples What you will learnUse predictive modeling and apply it to real world problemsExplore data visualization techniques to interact with your dataLearn how to build a recommendation engineUnderstand how to interact with text data and build models to analyze itWork with speech data and recognize spoken words using Hidden Markov ModelsGet well versed with reinforcement learning automated ML and transfer learningWork with image data and build systems for image recognition and biometric face recognitionUse deep neural networks to build an optical character recognition systemWho this book is for This book is for data scientists machine learning developers deep learning enthusiasts and Python programmers who want to solve real world challenges using machine learning techniques and algorithms If you are facing challenges at work and want ready to use code solutions to cover key tasks in machine learning and the deep learning domain then this book is what you need Familiarity with Python programming and machine learning concepts will be useful

**Machine Learning Quick Reference** Rahul Kumar,2019-01-31 Your hands on reference guide to developing training and optimizing your machine learning models Key

Features Your guide to learning efficient machine learning processes from scratch Explore expert techniques and hacks for a variety of machine learning concepts Write effective code in R Python Scala and Spark to solve all your machine learning problems

**Book Description** Machine learning makes it possible to learn about the unknowns and gain hidden insights into your datasets by mastering many tools and techniques This book guides you to do just that in a very compact manner After giving a quick overview of what machine learning is all about Machine Learning Quick Reference jumps right into its core algorithms and demonstrates how they can be applied to real world scenarios From model evaluation to optimizing their performance this book will introduce you to the best practices in machine learning Furthermore you will also look at the more advanced aspects such as training neural networks and work with different kinds of data such as text time series and sequential data Advanced methods and techniques such as causal inference deep Gaussian processes and more are also covered By the end of this book you will be able to train fast accurate machine learning models at your fingertips which you can easily use as a point of reference

What you will learn Get a quick rundown of model selection statistical modeling and cross validation Choose the best machine learning algorithm to solve your problem Explore kernel learning neural networks and time series analysis Train deep learning models and optimize them for maximum performance Briefly cover Bayesian techniques and sentiment analysis in your NLP solution Implement probabilistic graphical models and causal inferences Measure and optimize the performance of your machine learning models

Who this book is for If you're a machine learning practitioner data scientist machine learning developer or engineer this book will serve as a reference point in building machine learning solutions You will also find this book useful if you're an intermediate machine learning developer or data scientist looking for a quick handy reference to all the concepts of machine learning You'll need some exposure to machine learning to get the best out of this book

**Generative Adversarial Networks Cookbook** Josh Kalin, 2018-12-31

Simplify next generation deep learning by implementing powerful generative models using Python TensorFlow and Keras

**Key Features** Understand the common architecture of different types of GANs Train optimize and deploy GAN applications using TensorFlow and Keras Build generative models with real world data sets including 2D and 3D data

**Book Description** Developing Generative Adversarial Networks GANs is a complex task and it is often hard to find code that is easy to understand This book leads you through eight different examples of modern GAN implementations including CycleGAN simGAN DCGAN and 2D image to 3D model generation Each chapter contains useful recipes to build on a common architecture in Python TensorFlow and Keras to explore increasingly difficult GAN architectures in an easy to read format The book starts by covering the different types of GAN architecture to help you understand how the model works This book also contains intuitive recipes to help you work with use cases involving DCGAN Pix2Pix and so on To understand these complex applications you will take different real world data sets and put them to use By the end of this book you will be equipped to deal with the challenges and issues that you may face while working with GAN models thanks to easy to follow

code solutions that you can implement right away

**What you will learn**

- Structure a GAN architecture in pseudocode
- Understand the common architecture for each of the GAN models you will build
- Implement different GAN architectures in TensorFlow and Keras
- Use different datasets to enable neural network functionality in GAN models
- Combine different GAN models and learn how to fine tune them
- Produce a model that can take 2D images and produce 3D models
- Develop a GAN to do style transfer with Pix2Pix

**Who this book is for**

This book is for data scientists, machine learning developers, and deep learning practitioners looking for a quick reference to tackle challenges and tasks in the GAN domain.

**Familiarity with machine learning concepts and working knowledge of Python programming language will help you get the most out of the book**

[Apache Spark Deep Learning Cookbook](#) Ahmed Sherif, Amrith Ravindra, 2018-07-13

A solution based guide to put your deep learning models into production with the power of Apache Spark

**Key Features**

- Discover practical recipes for distributed deep learning with Apache Spark
- Learn to use libraries such as Keras and TensorFlow
- Solve problems in order to train your deep learning models on Apache Spark

**Book Description**

With deep learning gaining rapid mainstream adoption in modern day industries, organizations are looking for ways to unite popular big data tools with highly efficient deep learning libraries. As a result, this will help deep learning models train with higher efficiency and speed. With the help of the Apache Spark Deep Learning Cookbook, you'll work through specific recipes to generate outcomes for deep learning algorithms without getting bogged down in theory. From setting up Apache Spark for deep learning to implementing types of neural net, this book tackles both common and not so common problems to perform deep learning on a distributed environment. In addition to this, you'll get access to deep learning code within Spark that can be reused to answer similar problems or tweaked to answer slightly different problems. You will also learn how to stream and cluster your data with Spark. Once you have got to grips with the basics, you'll explore how to implement and deploy deep learning models such as Convolutional Neural Networks (CNN) and Recurrent Neural Networks (RNN) in Spark using popular libraries such as TensorFlow and Keras. By the end of the book, you'll have the expertise to train and deploy efficient deep learning models on Apache Spark.

**What you will learn**

- Set up a fully functional Spark environment
- Understand practical machine learning and deep learning concepts
- Apply built-in machine learning libraries within Spark
- Explore libraries that are compatible with TensorFlow and Keras
- Explore NLP models such as Word2vec and TF-IDF on Spark
- Organize dataframes for deep learning evaluation
- Apply testing and training modeling to ensure accuracy
- Access readily available code that may be reusable

**Who this book is for**

If you're looking for a practical and highly useful resource for implementing efficiently distributed deep learning models with Apache Spark, then the Apache Spark Deep Learning Cookbook is for you. Knowledge of the core machine learning concepts and a basic understanding of the Apache Spark framework is required to get the best out of this book. Additionally, some programming knowledge in Python is a plus.

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### **Tensorflow Machine Learning Cookbook Introduction**

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