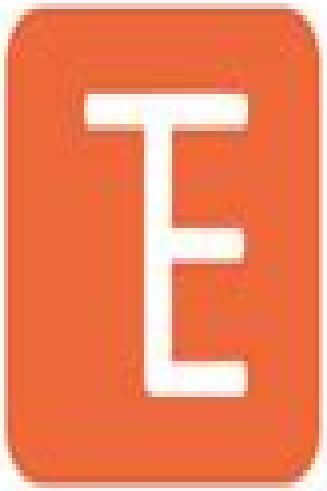
tflearn/tflearn



Deep learning library featuring a higher-level API for TensorFlow.

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Tflearn Tensorflow Deep Learning Library

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Tflearn Tensorflow Deep Learning Library:

Python Machine Learning Ryan Turner,2020-04-18 Are you a novice programmer who wants to learn Python Machine Learning Are you worried about how to translate what you already know into Python This book will help you overcome those problems As machines get ever more complex and perform more and more tasks to free up our time so it is that new ideas are developed to help us continually improve their speed and abilities One of these is Python and in Python Machine Learning 3 books in 1 The Ultimate Beginner s Guide to Learn Python Machine Learning Step by Step using Scikit Learn and Tensorflow you will discover information and advice on Book 1 What machine learning is The history of machine learning Approaches to machine learning Support vector machines Machine learning and neural networks The Internet of Things IoT The future of machine learning And more Book 2 The principles surrounding Python Different types of networks so you can choose what works best for you Features of the system Real world feature engineering Understanding the techniques of semi supervised learning And more Book 3 How advanced tensorflow can be used Neural network models and how to get the most from them Machine learning with Generative Adversarial Networks Translating images with cross domain GANs TF clusters and how to use them How to debug TF models And more This book has been written specifically for beginners and the simple step by step instructions and plain language make it an ideal place to start for anyone who has a passing interest in this fascinating subject Python really is an amazing system and can provide you with endless possibilities when you start learning about it Get a copy of Python Machine Learning today and see where the future lies *Optoelectronics in Machine Vision-Based Theories and Applications* Rivas-Lopez, Moises,Sergiyenko, Oleg,Flores-Fuentes, Wendy,Rodríguez-Quiñonez, Julio Cesar,2018-08-17 Sensor technologies play a large part in modern life as they are present in things like security systems digital cameras smartphones and motion sensors While these devices are always evolving research is being done to further develop this technology to help detect and analyze threats perform in depth inspections and perform tracking services Optoelectronics in Machine Vision Based Theories and Applications provides innovative insights on theories and applications of optoelectronics in machine vision based systems It also covers topics such as applications of unmanned aerial vehicle autonomous and mobile robots medical scanning industrial applications agriculture and structural health monitoring This publication is a vital reference source for engineers technology developers academicians researchers and advanced level students seeking emerging research on sensor technologies and machine vision **The Book of Alternative Data** Alexander Denev,Saeed Amen,2020-06-29 The first and only book to systematically address methodologies and processes of leveraging non traditional information sources in the context of investing and risk management Harnessing non traditional data sources to generate alpha analyze markets and forecast risk is a subject of intense interest for financial professionals A growing number of regularly held conferences on alternative data are being established complemented by an upsurge in new papers on the subject Alternative data is starting to be steadily incorporated by conventional institutional investors and risk

managers throughout the financial world Methodologies to analyze and extract value from alternative data guidance on how to source data and integrate data flows within existing systems is currently not treated in literature Filling this significant gap in knowledge The Book of Alternative Data is the first and only book to offer a coherent systematic treatment of the subject This groundbreaking volume provides readers with a roadmap for navigating the complexities of an array of alternative data sources and delivers the appropriate techniques to analyze them The authors leading experts in financial modeling machine learning and quantitative research and analytics employ a step by step approach to guide readers through the dense jungle of generated data A first of its kind treatment of alternative data types sources and methodologies this innovative book Provides an integrated modeling approach to extract value from multiple types of datasets Treats the processes needed to make alternative data signals operational Helps investors and risk managers rethink how they engage with alternative datasets Features practical use case studies in many different financial markets and real world techniques Describes how to avoid potential pitfalls and missteps in starting the alternative data journey Explains how to integrate information from different datasets to maximize informational value The Book of Alternative Data is an indispensable resource for anyone wishing to analyze or monetize different non traditional datasets including Chief Investment Officers Chief Risk Officers risk professionals investment professionals traders economists and machine learning developers and users Mastering TensorFlow 1.x Armando Fandango,2018-01-22 Build scale and deploy deep neural network models using the star libraries in Python Key Features Delve into advanced machine learning and deep learning use cases using Tensorflow and Keras Build deploy and scale end to end deep neural network models in a production environment Learn to deploy TensorFlow on mobile and distributed TensorFlow on GPU Clusters and Kubernetes Book Description TensorFlow is the most popular numerical computation library built from the ground up for distributed cloud and mobile environments TensorFlow represents the data as tensors and the computation as graphs This book is a comprehensive guide that lets you explore the advanced features of TensorFlow 1 x Gain insight into TensorFlow Core Keras TF Estimators TFLearn TF Slim Pretty Tensor and Sonnet Leverage the power of TensorFlow and Keras to build deep learning models using concepts such as transfer learning generative adversarial networks and deep reinforcement learning Throughout the book you will obtain hands on experience with varied datasets such as MNIST CIFAR 10 PTB text8 and COCO Images You will learn the advanced features of TensorFlow1 x such as distributed TensorFlow with TF Clusters deploy production models with TensorFlow Serving and build and deploy TensorFlow models for mobile and embedded devices on Android and iOS platforms You will see how to call TensorFlow and Keras API within the R statistical software and learn the required techniques for debugging when the TensorFlow API based code does not work as expected The book helps you obtain in depth knowledge of TensorFlow making you the go to person for solving artificial intelligence problems By the end of this guide you will have mastered the offerings of TensorFlow and Keras and gained the skills you need to build smarter faster and efficient machine

learning and deep learning systems What you will learn Master advanced concepts of deep learning such as transfer learning reinforcement learning generative models and more using TensorFlow and Keras Perform supervised classification and regression and unsupervised clustering learning to solve machine learning tasks Build end to end deep learning CNN RNN and Autoencoders models with TensorFlow Scale and deploy production models with distributed and high performance computing on GPU and clusters Build TensorFlow models to work with multilayer perceptrons using Keras TFLearn and R Learn the functionalities of smart apps by building and deploying TensorFlow models on iOS and Android devices Supercharge TensorFlow with distributed training and deployment on Kubernetes and TensorFlow Clusters Who this book is for This book is for data scientists machine learning engineers artificial intelligence engineers and for all TensorFlow users who wish to upgrade their TensorFlow knowledge and work on various machine learning and deep learning problems If you are looking for an easy to follow guide that underlines the intricacies and complex use cases of machine learning you will find this book extremely useful Some basic understanding of TensorFlow is required to get the most out of the book **Learning TensorFlow** Tom Hope,Yehezkel S. Resheff,Itay Lieder,2017-08-09 Roughly inspired by the human brain deep neural networks trained with large amounts of data can solve complex tasks with unprecedented accuracy This practical book provides an end to end guide to TensorFlow the leading open source software library that helps you build and train neural networks for computer vision natural language processing NLP speech recognition and general predictive analytics Authors Tom Hope Yehezkel Resheff and Itay Lieder provide a hands on approach to TensorFlow fundamentals for a broad technical audience from data scientists and engineers to students and researchers You ll begin by working through some basic examples in TensorFlow before diving deeper into topics such as neural network architectures TensorBoard visualization TensorFlow abstraction libraries and multithreaded input pipelines Once you finish this book you ll know how to build and deploy production ready deep learning systems in TensorFlow Get up and running with TensorFlow rapidly and painlessly Learn how to use TensorFlow to build deep learning models from the ground up Train popular deep learning models for computer vision and NLP Use extensive abstraction libraries to make development easier and faster Learn how to scale TensorFlow and use clusters to distribute model training Deploy TensorFlow in a production setting **Natural Language Processing with TensorFlow** Thushan Ganegedara,2018-05-31 Write modern natural language processing applications using deep learning algorithms and TensorFlow Key Features Focuses on more efficient natural language processing using TensorFlow Covers NLP as a field in its own right to improve understanding for choosing TensorFlow tools and other deep learning approaches Provides choices for how to process and evaluate large unstructured text datasets Learn to apply the TensorFlow toolbox to specific tasks in the most interesting field in artificial intelligence Book Description Natural language processing NLP supplies the majority of data available to deep learning applications while TensorFlow is the most important deep learning framework currently available Natural Language Processing with TensorFlow brings TensorFlow and NLP

together to give you invaluable tools to work with the immense volume of unstructured data in today s data streams and apply these tools to specific NLP tasks Thushan Ganegedara starts by giving you a grounding in NLP and TensorFlow basics You ll then learn how to use Word2vec including advanced extensions to create word embeddings that turn sequences of words into vectors accessible to deep learning algorithms Chapters on classical deep learning algorithms like convolutional neural networks CNN and recurrent neural networks RNN demonstrate important NLP tasks as sentence classification and language generation You will learn how to apply high performance RNN models like long short term memory LSTM cells to NLP tasks You will also explore neural machine translation and implement a neural machine translator After reading this book you will gain an understanding of NLP and you ll have the skills to apply TensorFlow in deep learning NLP applications and how to perform specific NLP tasks What you will learn Core concepts of NLP and various approaches to natural language processing How to solve NLP tasks by applying TensorFlow functions to create neural networks Strategies to process large amounts of data into word representations that can be used by deep learning applications Techniques for performing sentence classification and language generation using CNNs and RNNs About employing state of the art advanced RNNs like long short term memory to solve complex text generation tasks How to write automatic translation programs and implement an actual neural machine translator from scratch The trends and innovations that are paving the future in NLP Who this book is for This book is for Python developers with a strong interest in deep learning who want to learn how to leverage TensorFlow to simplify NLP tasks Fundamental Python skills are assumed as well as some knowledge of machine learning and undergraduate level calculus and linear algebra No previous natural language processing experience required although some background in NLP or computational linguistics will be helpful *Hands-On Deep Learning Architectures with Python* Yuxi (Hayden) Liu,Saransh Mehta,2019-04-30 Concepts tools and techniques to explore deep learning architectures and methodologies Key FeaturesExplore advanced deep learning architectures using various datasets and frameworksImplement deep architectures for neural network models such as CNN RNN GAN and many moreDiscover design patterns and different challenges for various deep learning architecturesBook Description Deep learning architectures are composed of multilevel nonlinear operations that represent high level abstractions this allows you to learn useful feature representations from the data This book will help you learn and implement deep learning architectures to resolve various deep learning research problems Hands On Deep Learning Architectures with Python explains the essential learning algorithms used for deep and shallow architectures Packed with practical implementations and ideas to help you build efficient artificial intelligence systems AI this book will help you learn how neural networks play a major role in building deep architectures You will understand various deep learning architectures such as AlexNet VGG Net GoogleNet with easy to follow code and diagrams In addition to this the book will also guide you in building and training various deep architectures such as the Boltzmann mechanism autoencoders convolutional neural networks CNNs recurrent neural networks RNNs natural language processing

NLP GAN and more all with practical implementations By the end of this book you will be able to construct deep models using popular frameworks and datasets with the required design patterns for each architecture You will be ready to explore the potential of deep architectures in today s world What you will learnImplement CNNs RNNs and other commonly used architectures with PythonExplore architectures such as VGGNet AlexNet and GoogLeNetBuild deep learning architectures for AI applications such as face and image recognition fraud detection and many moreUnderstand the architectures and applications of Boltzmann machines and autoencoders with concrete examples Master artificial intelligence and neural network concepts and apply them to your architectureUnderstand deep learning architectures for mobile and embedded systemsWho this book is for If you re a data scientist machine learning developer engineer or deep learning practitioner or are curious about AI and want to upgrade your knowledge of various deep learning architectures this book will appeal to you You are expected to have some knowledge of statistics and machine learning algorithms to get the best out of this book

Tensorflow Machine Learning Benjamin Smith,2020-04-26 Are you interested in learning machine learning and deep learning TensorFlow is the single most popular library available today Offering some of the very best graph computations TensorFlow helps data scientists in designing neural networks using a cool feature called TensorBoard It has support for both recurrent neural networks RNNs and convolution as well as parallel processing support on GPU and CPU While TensorFlow is an incredibly important machine and deep learning library we also give you an introduction to three others NumPy Pandas and Scikit Learn I have produced a hands on guide with plenty of code examples for you to follow along withHere s what you will learn What deep learning is The difference between deep learning and machine learning What TensorFlow is How to install it on Windows and Mac The basics of TensorFlow Using TensorBoard About NumPy Scikit Learn and Pandas About linear regression Kernel methods Building an Artificial Neural Network using TensorFlow TensorFlow image classification TensorFlow autoencoders Much moreIf you are already proficient at programming in Python and are ready to take the next step into machine learning this guide is for you Scroll up hit that Buy Now button and set off on a brand new machine learning journey **Deep Learning Essentials** Anurag Bhardwaj,Wei Di,Jianing Wei,2018-01-30 Get to grips with the essentials of deep learning by leveraging the power of Python Key Features Your one stop solution to get started with the essentials of deep learning and neural network modeling Train different kinds of neural networks to tackle various problems in Natural Language Processing computer vision speech recognition and more Covers popular Python libraries such as Tensorflow Keras and more along with tips on training deploying and optimizing your deep learning models in the best possible manner Book Description Deep Learning a trending topic in the field of Artificial Intelligence today and can be considered to be an advanced form of machine learning which is quite tricky to master This book will help you take your first steps in training efficient deep learning models and applying them in various practical scenarios You will model train and deploy different kinds of neural networks such as Convolutional Neural Network Recurrent Neural Network and

will see some of their applications in real world domains including computer vision natural language processing speech recognition and so on You will build practical projects such as chatbots implement reinforcement learning to build smart games and develop expert systems for image captioning and processing Popular Python library such as TensorFlow is used in this book to build the models This book also covers solutions for different problems you might come across while training models such as noisy datasets small datasets and more This book does not assume any prior knowledge of deep learning By the end of this book you will have a firm understanding of the basics of deep learning and neural network modeling along with their practical applications What you will learn Get to grips with the core concepts of deep learning and neural networks Set up deep learning library such as TensorFlow Fine tune your deep learning models for NLP and Computer Vision applications Unify different information sources such as images text and speech through deep learning Optimize and fine tune your deep learning models for better performance Train a deep reinforcement learning model that plays a game better than humans Learn how to make your models get the best out of your GPU or CPU Who this book is for Aspiring data scientists and machine learning experts who have limited or no exposure to deep learning will find this book to be very useful If you are looking for a resource that gets you up and running with the fundamentals of deep learning and neural networks this book is for you As the models in the book are trained using the popular Python based libraries such as Tensorflow and Keras it would be useful to have sound programming knowledge of Python *Learn TensorFlow in 24 Hours* Alex Nordeen,2020-10-31 Tensorflow is the most popular Deep Learning Library out there It has fantastic graph computations feature which helps data scientist to visualize his designed neural network using TensorBoard This Machine learning library supports both Convolution as well as Recurrent Neural network It supports parallel processing on CPU as well as GPU Prominent machine learning algorithms supported by TensorFlow are Deep Learning Classification wipe deep Boston Tree amongst others The book is very hands on and gives you industry ready deep learnings practices Here is what is covered in the book Table Of Content Chapter 1 What is Deep learning Chapter 2 Machine Learning vs Deep Learning Chapter 3 What is TensorFlow Chapter 4 Comparison of Deep Learning Libraries Chapter 5 How to Download and Install TensorFlow Windows and Mac Chapter 6 Jupyter Notebook Tutorial Chapter 7 Tensorflow on AWS Chapter 8 TensorFlow Basics Tensor Shape Type Graph Sessions Operators Chapter 9 Tensorboard Graph Visualization with Example Chapter 10 NumPy Chapter 11 Pandas Chapter 12 Scikit Learn Chapter 13 Linear Regression Chapter 14 Linear Regression Case Study Chapter 15 Linear Classifier in TensorFlow Chapter 16 Kernel Methods Chapter 17 TensorFlow ANN Artificial Neural Network Chapter 18 ConvNet Convolutional Neural Network TensorFlow Image Classification Chapter 19 Autoencoder with TensorFlow Chapter 20 RNN Recurrent Neural Network TensorFlow Neural Network Programming with TensorFlow Manpreet Singh Ghotra,Rajdeep Dua,2017-11-10 Neural Networks and their implementation decoded with TensorFlow About This Book Develop a strong background in neural network programming from scratch using the popular Tensorflow library Use

Tensorflow to implement different kinds of neural networks from simple feedforward neural networks to multilayered perceptrons CNNs RNNs and more A highly practical guide including real world datasets and use cases to simplify your understanding of neural networks and their implementation Who This Book Is For This book is meant for developers with a statistical background who want to work with neural networks Though we will be using TensorFlow as the underlying library for neural networks book can be used as a generic resource to bridge the gap between the math and the implementation of deep learning If you have some understanding of Tensorflow and Python and want to learn what happens at a level lower than the plain API syntax this book is for you What You Will Learn Learn Linear Algebra and mathematics behind neural network Dive deep into Neural networks from the basic to advanced concepts like CNN RNN Deep Belief Networks Deep Feedforward Networks Explore Optimization techniques for solving problems like Local minima Global minima Saddle points Learn through real world examples like Sentiment Analysis Train different types of generative models and explore autoencoders Explore TensorFlow as an example of deep learning implementation In Detail If you re aware of the buzz surrounding the terms such as machine learning artificial intelligence or deep learning you might know what neural networks are Ever wondered how they help in solving complex computational problem efficiently or how to train efficient neural networks This book will teach you just that You will start by getting a quick overview of the popular TensorFlow library and how it is used to train different neural networks You will get a thorough understanding of the fundamentals and basic math for neural networks and why TensorFlow is a popular choice Then you will proceed to implement a simple feed forward neural network Next you will master optimization techniques and algorithms for neural networks using TensorFlow Further you will learn to implement some more complex types of neural networks such as convolutional neural networks recurrent neural networks and Deep Belief Networks In the course of the book you will be working on real world datasets to get a hands on understanding of neural network programming You will also get to train generative models and will learn the applications of autoencoders By the end of this book you will have a fair understanding of how you can leverage the power of TensorFlow to train neural networks of varying complexities without any hassle While you are learning about various neural network implementations you will learn the underlying mathematics and linear algebra and how they map to the appropriate TensorFlow constructs Style and Approach This book is designed to give you just the right number of concepts to back up the examples With real world use cases and problems solved this book is a handy guide for you Each concept is backed by a generic and real world problem followed by a variation making you independent and able to solve any problem with neural networks All of the content is demystified by a simple and straightforward approach **Deep Learning By Example** Ahmed Menshawy,2018-02-28 Grasp the fundamental concepts of deep learning using Tensorflow in a hands on manner Key Features Get a first hand experience of the deep learning concepts and techniques with this easy to follow guide Train different types of neural networks using Tensorflow for real world problems in language processing computer vision transfer

learning and more Designed for those who believe in the concept of learn by doing this book is a perfect blend of theory and code examples Book Description Deep learning is a popular subset of machine learning and it allows you to build complex models that are faster and give more accurate predictions This book is your companion to take your first steps into the world of deep learning with hands on examples to boost your understanding of the topic This book starts with a quick overview of the essential concepts of data science and machine learning which are required to get started with deep learning It introduces you to Tensorflow the most widely used machine learning library for training deep learning models You will then work on your first deep learning problem by training a deep feed forward neural network for digit classification and move on to tackle other real world problems in computer vision language processing sentiment analysis and more Advanced deep learning models such as generative adversarial networks and their applications are also covered in this book By the end of this book you will have a solid understanding of all the essential concepts in deep learning With the help of the examples and code provided in this book you will be equipped to train your own deep learning models with more confidence What you will learn Understand the fundamentals of deep learning and how it is different from machine learning Get familiarized with Tensorflow one of the most popular libraries for advanced machine learning Increase the predictive power of your model using feature engineering Understand the basics of deep learning by solving a digit classification problem of MNIST Demonstrate face generation based on the CelebA database a promising application of generative models Apply deep learning to other domains like language modeling sentiment analysis and machine translation Who this book is for This book targets data scientists and machine learning developers who wish to get started with deep learning If you know what deep learning is but are not quite sure of how to use it this book will help you as well An understanding of statistics and data science concepts is required Some familiarity with Python programming will also be beneficial **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 **TensorFlow 2.0 Quick Start Guide** Tony Holdroyd,2019-03-29 Perform supervised and unsupervised machine learning and learn advanced techniques such as training neural networks Key FeaturesTrain your own models for effective prediction using high level Keras API Perform supervised and unsupervised machine learning and learn advanced techniques such as training neural networksGet acquainted with some new practices introduced in TensorFlow 2 0 AlphaBook Description TensorFlow is one of the most popular machine learning frameworks in Python With this book you will improve your knowledge of some of the latest TensorFlow features and will be able to perform supervised and unsupervised machine learning and also train neural networks After giving you an overview of what s new in TensorFlow 2 0 Alpha the book moves on to setting up your machine learning environment using the TensorFlow library You will perform popular supervised machine learning tasks using techniques such as linear regression logistic regression and clustering You will get familiar with unsupervised learning for autoencoder applications The book will also show you how to train effective neural networks using straightforward examples in a variety of different domains By the end of the book you will have been exposed to a large variety of machine learning and neural network TensorFlow techniques What you will learnUse tf Keras for fast prototyping building and training deep learning neural network modelsEasily convert your TensorFlow 1 12 applications to TensorFlow 2 0 compatible filesUse TensorFlow to tackle traditional supervised and unsupervised machine learning applicationsUnderstand image recognition techniques using TensorFlowPerform neural style transfer for image hybridization using a neural networkCode a recurrent neural network in TensorFlow to perform text style generationWho this book is for Data scientists machine learning developers and deep learning enthusiasts looking to quickly get started with TensorFlow 2 will find this book useful Some Python programming experience with version 3 6 or later along with a familiarity with Jupyter notebooks will be an added advantage Exposure to machine learning and neural network techniques would also be helpful

Advanced Deep Learning with Python Ivan Vasilev,2019-12-12 Gain expertise in advanced deep learning domains such as neural networks meta learning graph neural networks and memory augmented neural networks using the Python ecosystem Key FeaturesGet to grips with building faster and more robust deep learning architecturesInvestigate and train convolutional neural network CNN models with GPU accelerated libraries such as TensorFlow and PyTorchApply deep neural

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applications for machine learning systems using Feedforward Neural Networks Convolutional Neural Networks Recurrent Neural Networks Autoencoders and Factorization Machines Discover how to attain deep learning programming on GPU in a distributed way You ll come away with an in depth knowledge of machine learning techniques and the skills to apply them to real world projects What you will learn Apply deep machine intelligence and GPU computing with TensorFlow Access public datasets and use TensorFlow to load process and transform the data Discover how to use the high level TensorFlow API to build more powerful applications Use deep learning for scalable object detection and mobile computing Train machines quickly to learn from data by exploring reinforcement learning techniques Explore active areas of deep learning research and applications Who this book is for The book is for people interested in machine learning and machine intelligence A rudimentary level of programming in one language is assumed as is a basic familiarity with computer science techniques and technologies including a basic awareness of computer hardware and algorithms Some competence in mathematics is needed to the level of elementary linear algebra and calculus *Deep Learning With Python* Jason Brownlee,2016-05-13 Deep learning is the most interesting and powerful machine learning technique right now Top deep learning libraries are available on the Python ecosystem like Theano and TensorFlow Tap into their power in a few lines of code using Keras the best of breed applied deep learning library In this Ebook learn exactly how to get started and apply deep learning to your own machine learning projects 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 Table of Contents PART 1 YOUR MACHINE LEARNING RIG 1 A machine learning odyssey 2 TensorFlow essentials PART 2 CORE LEARNING ALGORITHMS 3 Linear regression and beyond 4 Using regression for call center volume prediction 5 A gentle introduction to classification 6 Sentiment classification Large movie review dataset 7 Automatically clustering data 8 Inferring user activity from Android accelerometer data 9 Hidden Markov models 10 Part of speech tagging and word sense disambiguation PART 3 THE NEURAL NETWORK PARADIGM 11 A peek into autoencoders 12 Applying autoencoders The CIFAR 10 image dataset 13 Reinforcement learning 14 Convolutional neural networks 15 Building a real world CNN VGG Face ad VGG Face Lite 16 Recurrent neural networks 17 LSTMs and automatic speech recognition 18 Sequence to sequence models for chatbots 19 Utility landscape *Machine Learning Using TensorFlow Cookbook* Alexia Audevart,Konrad Banachewicz,Luca Massaron,2021-02-08 Comprehensive recipes to give you valuable insights on Transformers Reinforcement Learning and more Key FeaturesDeep Learning solutions from Kaggle Masters and Google Developer ExpertsGet to grips with the fundamentals including variables matrices and data sourcesLearn advanced techniques to make your algorithms faster and more accurateBook 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 learnTake TensorFlow into productionImplement and fine tune Transformer models for various NLP tasksApply reinforcement learning algorithms using the TF Agents frameworkUnderstand linear regression techniques and use Estimators to train linear modelsExecute neural networks and improve predictions on tabular dataMaster convolutional neural networks and recurrent neural networks through practical recipesWho 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

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