Getting Started with TensorFlow

Get introduced to the latest numerical computing library by Google and dive deeper into your data!

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Deep Learning with TensorFlow Giancarlo Zaccone,Md. Rezaul Karim,2018-03-30 Delve into neural networks implement deep learning algorithms and explore layers of data abstraction with the help of TensorFlow Key Features Learn how to implement advanced techniques in deep learning with Google s brainchild TensorFlow Explore deep neural networks and layers of data abstraction with the help of this comprehensive guide Gain real world contextualization through some deep learning problems concerning research and application Book Description Deep learning is a branch of machine learning algorithms based on learning multiple levels of abstraction Neural networks which are at the core of deep learning are being used in predictive analytics computer vision natural language processing time series forecasting and to perform a myriad of other complex tasks This book is conceived for developers data analysts machine learning practitioners and deep learning enthusiasts who want to build powerful robust and accurate predictive models with the power of TensorFlow combined with other open source Python libraries Throughout the book you ll learn how to develop deep learning 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 **Getting Started with Tensorflow** Giancarlo Zaccone,2016-07-26 Get up and running with the latest numerical computing library by Google and dive deeper into your data About This Book Get the first book on the market that shows you the key aspects TensorFlow how it works and how to use it for the second generation of machine learning Want to perform faster and more accurate computations in the field of data science This book will acquaint you with an all new refreshing library TensorFlow Dive into the next generation of numerical computing and get the most out of your data with this quick guideWho This Book Is ForThis book is dedicated to all the machine learning and deep learning enthusiasts data scientists researchers and even students who want to perform more accurate fast machine learning operations with TensorFlow Those with basic knowledge of programming Python and C C and math concepts who want to be introduced to the topics of machine learning will find this book useful What You Will Learn Install and adopt TensorFlow in

your Python environment to solve mathematical problems Get to know the basic machine and deep learning concepts Train and test neural networks to fit your data model Make predictions using regression algorithms Analyze your data with a clustering procedure Develop algorithms for clustering and data classification Use GPU computing to analyze big dataIn DetailGoogle s TensorFlow engine after much fanfare has evolved in to a robust user friendly and customizable application grade software library of machine learning ML code for numerical computation and neural networks This book takes you through the practical software implementation of various machine learning techniques with TensorFlow In the first few chapters you ll gain familiarity with the framework and perform the mathematical operations required for data analysis As you progress further you ll learn to implement various machine learning techniques such as classification clustering neural networks and deep learning through practical examples By the end of this book you ll have gained hands on experience of using TensorFlow and building classification image recognition systems language processing and information retrieving systems for your application Style and approachGet quickly up and running with TensorFlow using this fast paced guide You will get to know everything that can be done with TensorFlow and we ll show you how to implement it in your environment The examples in the book are from the core of the computation industry something you can connect to and will find familiar

Deep Learning with TensorFlow Giancarlo Zaccone,Md. Rezaul Karim,Ahmed Menshawy,2017-04-24 Delve into neural networks implement deep learning algorithms and explore layers of data abstraction with the help of this comprehensive TensorFlow guide About This Book Learn how to implement advanced techniques in deep learning with Google s brainchild TensorFlow Explore deep neural networks and layers of data abstraction with the help of this comprehensive guide Real world contextualization through some deep learning problems concerning research and application Who This Book Is For The book is intended for a general audience of 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 What You Will Learn Learn about machine learning landscapes along with the historical development and progress of deep learning Learn about deep machine intelligence and GPU computing with the latest TensorFlow 1 x Access public datasets and utilize them using TensorFlow to load process and transform data Use TensorFlow on real world datasets including images text and more Learn how to evaluate the performance of your deep learning models Using 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 In Detail Deep learning is the step that comes after machine learning and has more advanced implementations Machine learning is not just for academics anymore but is becoming a mainstream practice through wide adoption and deep learning has taken the front seat As a data scientist if you want to explore data abstraction layers this book will be your guide This

book shows how this can be exploited in the real world with complex raw data using TensorFlow 1 x Throughout the book you ll learn how to implement deep learning algorithms for machine learning systems and integrate them into your product offerings including search image recognition and language processing Additionally you ll learn how to analyze and improve the performance of deep learning models This can be done by comparing algorithms against benchmarks along with machine intelligence to learn from the information and determine ideal behaviors within a specific context After finishing the book you will be familiar with machine learning techniques in particular the use of TensorFlow for deep learning and will be ready to apply your knowledge to research or commercial projects Style and approach This step by step guide will explore common and not so common deep neural networks and show how these can be exploited in the real world with complex raw data With the help of practical examples you will learn how to implement different types of neural nets to build smart applications related to text speech and image data processing **Neural Network Tutorials - Herong's Tutorial Examples** Herong Yang,2021-03-06 This book is a collection of notes and sample codes written by the author while he was learning Neural Networks in Machine Learning Topics include Neural Networks NN concepts nodes layers activation functions learning rates training sets etc deep playground for classical neural networks building neural networks with Python walking through Tariq Rashi s Make Your Own Neural Network source code using TensorFlow and PyTorch machine learning platforms understanding CNN Convolutional Neural Network RNN Recurrent Neural Network GNN Graph Neural Network Updated in 2023 Version v1 22 with minor updates For latest updates and free sample chapters visit https www herongyang com Neural Network **Practical Big Data Analytics** Nataraj Dasgupta,2018-01-15 Get command of your organizational Big Data using the power of data science and analytics Key Features A perfect companion to boost your Big Data storing processing analyzing skills to help you take informed business decisions Work with the best tools such as Apache Hadoop R Python and Spark for NoSQL platforms to perform massive online analyses Get expert tips on statistical inference machine learning mathematical modeling and data visualization for Big Data Book Description Big Data analytics relates to the strategies used by organizations to collect organize and analyze large amounts of data to uncover valuable business insights that otherwise cannot be analyzed through traditional systems Crafting an enterprise scale cost efficient Big Data and machine learning solution to uncover insights and value from your organization s data is a challenge Today with hundreds of new Big Data systems machine learning packages and BI Tools selecting the right combination of technologies is an even greater challenge This book will help you do that With the help of this guide you will be able to bridge the gap between the theoretical world of technology with the practical ground reality of building corporate Big Data and data science platforms You will get hands on exposure to Hadoop and Spark build machine learning dashboards using R and R Shiny create web based apps using NoSQL databases such as MongoDB and even learn how to write R code for neural networks By the end of the book you will have a very clear and concrete understanding of what Big Data analytics means how it drives revenues for organizations and how

you can develop your own Big Data analytics solution using different tools and methods articulated in this book What you will learn Get a 360 degree view into the world of Big Data data science and machine learning Broad range of technical and business Big Data analytics topics that caters to the interests of the technical experts as well as corporate IT executives Get hands on experience with industry standard Big Data and machine learning tools such as Hadoop Spark MongoDB KDB and R Create production grade machine learning BI Dashboards using R and R Shiny with step by step instructions Learn how to combine open source Big Data machine learning and BI Tools to create low cost business analytics applications Understand corporate strategies for successful Big Data and data science projects Go beyond general purpose analytics to develop cutting edge Big Data applications using emerging technologies Who this book is for The book is intended for existing and aspiring Big Data professionals who wish to become the go to person in their organization when it comes to Big Data architecture analytics and governance While no prior knowledge of Big Data or related technologies is assumed it will be helpful to have some programming experience   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 with TensorFlow - Second Edition* Giancarlo Zaccone,Rezaul Karim,2018 Delve into neural networks implement deep learning algorithms and explore layers of data abstraction with the help of TensorFlow About This Book Learn how to implement advanced techniques in deep learning with Google s brainchild TensorFlow Explore deep neural networks and layers of data abstraction with the help of this comprehensive guide Gain real world contextualization through some deep learning problems concerning research and application 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 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 In Detail Deep learning is a branch of machine learning algorithms based on learning multiple levels of abstraction Neural networks which are at the core of deep learning are being used in predictive analytics computer vision natural language processing time series forecasting and to perform a myriad of other complex tasks This book is conceived for developers data analysts machine learning practitioners and deep learning enthusiasts who want to build powerful robust and accurate predictive models with the power of TensorFlow combined with other open source Python libraries Throughout the book you ll learn how to develop deep learning 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 Style and approach This step by step guide explores common and not so common deep neural networks and shows ho **Deep Reinforcement Learning Hands-On** Maxim Lapan,2018-06-21 This practical guide will teach you how deep learning DL can be used to solve complex real world problems Key Features Explore deep reinforcement learning RL from the first principles to the latest algorithms Evaluate high profile RL methods including value iteration deep Q networks policy gradients TRPO PPO DDPG D4PG evolution strategies and genetic algorithms Keep up with the very latest industry developments including AI driven chatbots Book Description Recent developments in reinforcement learning RL combined with deep learning DL have seen unprecedented progress made towards training agents to solve complex problems in a human like way Google s use of algorithms to play and defeat the well known Atari arcade games has propelled the field to prominence and researchers are generating new ideas at a rapid pace Deep Reinforcement Learning Hands On is a comprehensive guide to the very latest DL tools and their limitations You will evaluate methods including Cross entropy and policy gradients before applying them to real world environments Take on both the Atari set of virtual games and family favorites such as Connect4 The book provides an introduction to the basics of RL giving you the know how to code intelligent learning agents to take on a formidable array of practical tasks Discover how to implement Q learning on grid world environments teach your agent to buy and trade stocks and find out how natural language models are driving the boom in chatbots What you will learn Understand the DL context of RL and implement complex DL models Learn the foundation of RL Markov decision processes Evaluate RL methods including Cross entropy DQN Actor Critic TRPO PPO DDPG D4PG and others Discover how to deal with discrete and continuous action spaces in various environments Defeat Atari arcade games using the value iteration method Create your own OpenAI Gym environment to train a stock trading agent Teach your agent to play Connect4 using AlphaGo Zero Explore the very latest deep RL research on topics including AI driven chatbots Who this book is for Some fluency in Python is assumed Basic deep learning DL approaches should be familiar to readers and some practical experience in DL will be helpful This book is an introduction to deep reinforcement learning RL and requires no background in RL Advanced Deep Learning with Keras Rowel Atienza,2018-10-31 Understanding and coding advanced deep learning algorithms with the most intuitive deep learning library in existence Key Features Explore the most advanced deep learning techniques that drive modern AI results Implement deep neural networks autoencoders GANs VAEs and deep reinforcement learning A wide study of GANs including Improved GANs Cross Domain GANs and Disentangled Representation GANs Book DescriptionRecent developments in deep learning including Generative Adversarial Networks GANs Variational Autoencoders VAEs and Deep Reinforcement Learning DRL are creating impressive AI results in our news headlines such as AlphaGo Zero beating world chess champions and generative AI that can create art paintings that sell for over 400k because they are so human like Advanced Deep Learning with Keras is a comprehensive guide to the advanced deep learning techniques available today so you can create your own cutting edge AI Using Keras as an open source deep

learning library you ll find hands on projects throughout that show you how to create more effective AI with the latest techniques The journey begins with an overview of MLPs CNNs and RNNs which are the building blocks for the more advanced techniques in the book You ll learn how to implement deep learning models with Keras and TensorFlow 1 x and move forwards to advanced techniques as you explore deep neural network architectures including ResNet and DenseNet and how to create autoencoders You then learn all about GANs and how they can open new levels of AI performance Next you ll get up to speed with how VAEs are implemented and you ll see how GANs and VAEs have the generative power to synthesize data that can be extremely convincing to humans a major stride forward for modern AI To complete this set of advanced techniques you ll learn how to implement DRL such as Deep Q Learning and Policy Gradient Methods which are critical to many modern results in AI What you will learn Cutting edge techniques in human like AI performance Implement advanced deep learning models using Keras The building blocks for advanced techniques MLPs CNNs and RNNs Deep neural networks ResNet and DenseNet Autoencoders and Variational Autoencoders VAEs Generative Adversarial Networks GANs and creative AI techniques Disentangled Representation GANs and Cross Domain GANs Deep reinforcement learning methods and implementation Produce industry standard applications using OpenAI Gym Deep Q Learning and Policy Gradient Methods Who this book is for Some fluency with Python is assumed As an advanced book you ll be familiar with some machine learning approaches and some practical experience with DL will be helpful Knowledge of Keras or TensorFlow 1 x is not required but would be helpful   **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 **Python Parallel Programming Cookbook** Giancarlo Zaccone,2019-09-06 Implement effective programming techniques in Python to build scalable software that saves time and memory Key Features Design distributed computing systems and massive computational tasks coherently Learn practical recipes with concise explanations that address development pain points encountered while coding parallel programs Understand how to host your parallelized applications on the cloud Book Description Nowadays it has become extremely important for programmers to understand the link between the software and the parallel nature of their hardware so that their programs run efficiently on computer architectures Applications based on parallel programming are fast robust and easily scalable This updated edition features cutting edge techniques for building effective concurrent applications in Python 3 7 The book introduces parallel programming architectures and covers the fundamental recipes for thread based and process based parallelism You ll learn about mutex semaphores locks queues exploiting the threading and multiprocessing modules all of which are basic tools to build parallel applications Recipes on MPI programming will help you to synchronize processes using the fundamental message passing techniques with mpi4py Furthermore you ll get to grips with asynchronous programming and how to use the power of the GPU with PyCUDA and PyOpenCL frameworks Finally you ll explore how to design distributed computing systems with Celery and architect Python apps on the cloud using PythonAnywhere Docker and serverless applications By the end of this book you will be confident in building concurrent and high performing applications in Python What you will learn Synchronize multiple threads and processes to manage parallel tasks Use message passing techniques to establish communication between processes to build parallel applications Program your own GPU cards to address complex problems Manage computing entities to execute distributed computational task Write efficient programs by adopting the event driven programming model Explore cloud technology with Django and Google App Engine Apply parallel programming techniques that can lead to performance improvements Who this book is for The Python Parallel Programming Cookbook is for software developers who are well versed with Python and want to use parallel programming techniques to write powerful and efficient code This book will help you master the basics and the advanced of parallel computing TensorFlow Reinforcement Learning Quick Start Guide Kaushik Balakrishnan,2019-03-30 Leverage the power of

Tensorflow to Create powerful software agents that can self learn to perform real world tasks Key FeaturesExplore efficient Reinforcement Learning algorithms and code them using TensorFlow and PythonTrain Reinforcement Learning agents for problems ranging from computer games to autonomous driving Formulate and devise selective algorithms and techniques in your applications in no time Book Description Advances in reinforcement learning algorithms have made it possible to use them for optimal control in several different industrial applications With this book you will apply Reinforcement Learning to a range of problems from computer games to autonomous driving The book starts by introducing you to essential Reinforcement Learning concepts such as agents environments rewards and advantage functions You will also master the distinctions between on policy and off policy algorithms as well as model free and model based algorithms You will also learn about several Reinforcement Learning algorithms such as SARSA Deep Q Networks DQN Deep Deterministic Policy Gradients DDPG Asynchronous Advantage Actor Critic A3C Trust Region Policy Optimization TRPO and Proximal Policy Optimization PPO The book will also show you how to code these algorithms in TensorFlow and Python and apply them to solve computer games from OpenAI Gym Finally you will also learn how to train a car to drive autonomously in the Torcs racing car simulator By the end of the book you will be able to design build train and evaluate feed forward neural networks and convolutional neural networks You will also have mastered coding state of the art algorithms and also training agents for various control problems What you will learnUnderstand the theory and concepts behind modern Reinforcement Learning algorithmsCode state of the art Reinforcement Learning algorithms with discrete or continuous actionsDevelop Reinforcement Learning algorithms and apply them to training agents to play computer gamesExplore DQN DDQN and Dueling architectures to play Atari s Breakout using TensorFlowUse A3C to play CartPole and LunarLanderTrain an agent to drive a car autonomously in a simulatorWho this book is for Data scientists and AI developers who wish to quickly get started with training effective reinforcement learning models in TensorFlow will find this book very useful Prior knowledge of machine learning and deep learning concepts as well as exposure to Python programming will be useful **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   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   *Getting Started with TensorFlow* Aurélien Géron,2017   **Natural Computing with Python** Zaccone Giancarlo,2019-09-20 Step by step guide to learn and solve complex computational problems with Nature Inspired algorithms Key features Artificial Neural Networks Deep Learning models using Keras Quantum Computers and Programming Genetic Algorithms CNN and RNNs Swarm Intelligence Systems Reinforcement Learning using OpenAI Artificial Life DNA computing Fractals Description Natural Computing is the field of research inspired by nature that allows the development of new algorithms to solve complex problems leads to the synthesis of natural models and may result in the design of new computing systems This book exactly aims to educate you with practical examples on topics of importance associated with research field of Natural computing The initial few chapters will quickly walk you through Neural Networks while describing deep learning

architectures such as CNN RNN and AutoEncoders using Keras As you progress further you ll gain understanding to develop genetic algorithm to solve traveling saleman problem implement swarm intelligence techniques using the SwarmPackagePy and Cellular Automata techniques such as Game of Life Langton s ant etc The latter half of the book will introduce you to the world of Fractals such as such as the Cantor Set and the Mandelbrot Set develop a quantum program with the QiSkit tool that runs on a real quantum computing platform namely the IBM Q Machine and a Python simulation of the Adleman experiment that showed for the first time the possibility of performing computations at the molecular level What will you learn Mastering Artificial Neural Networks Developing Artificial Intelligence systems Resolving complex problems with Genetic Programming and Swarm intelligence algorithms Programming Quantum Computers Exploring the mathematical world of fractals Simulating complex systems by Cellular Automata Understanding the basics of DNA computationWho this book is for This book is for all science enthusiasts in particular who want to understand what are the links between computer sciences and natural systems Interested readers should have good skills in math and python programming along with some basic knowledge of physics and biology Although some knowledge of the topics covered in the book will be helpful it is not essential to have worked with the tools covered in the book Table of contents1 Neural Networks2 Deep Learning3 Genetic Algorithms and Programming4 Swarm Intelligence5 Cellular Automata6 Fractals7 Quantum Computing8 DNA ComputingAbout the authorGiancarlo Zaccone has over ten years of experience in managing research projects in scientific and industrial areas He is a Software and Systems Engineer Consultant at European Space Agency ESTEC Giancarlo holds a master s degree in Physics and an advanced master s degree in Scientific Computing at La Sapienza of Rome Her LinkedIn Profile https www linkedin com in giancarlozaccone   *First Contact with Tensorflow* Torres Viñals Torres,2016   **The TensorFlow Workshop** Matthew Moocarme,Anthony So,Anthony Maddalone,2021-12-15 Get started with TensorFlow fundamentals to build and train deep learning models with real world data practical exercises and challenging activities Key FeaturesUnderstand the fundamentals of tensors neural networks and deep learningDiscover how to implement and fine tune deep learning models for real world datasetsBuild your experience and confidence with hands on exercises and activitiesBook Description Getting to grips with tensors deep learning and neural networks can be intimidating and confusing for anyone no matter their experience level The breadth of information out there often written at a very high level and aimed at advanced practitioners can make getting started even more challenging If this sounds familiar to you The TensorFlow Workshop is here to help Combining clear explanations realistic examples and plenty of hands on practice it ll quickly get you up and running You ll start off with the basics learning how to load data into TensorFlow perform tensor operations and utilize common optimizers and activation functions As you progress you ll experiment with different TensorFlow development tools including TensorBoard TensorFlow Hub and Google Colab before moving on to solve regression and classification problems with sequential models Building on this solid foundation you ll learn how to tune models and work with different types of neural

network getting hands on with real world deep learning applications such as text encoding temperature forecasting image augmentation and audio processing By the end of this deep learning book you ll have the skills knowledge and confidence to tackle your own ambitious deep learning projects with TensorFlow What you will learnGet to grips with TensorFlow s mathematical operationsPre process a wide variety of tabular sequential and image dataUnderstand the purpose and usage of different deep learning layersPerform hyperparameter tuning to prevent overfitting of training dataUse pre trained models to speed up the development of learning modelsGenerate new data based on existing patterns using generative modelsWho this book is for This TensorFlow book is for anyone who wants to develop their understanding of deep learning and get started building neural networks with TensorFlow Basic knowledge of Python programming and its libraries as well as a general understanding of the fundamentals of data science and machine learning will help you grasp the topics covered in this book more easily   Getting Started with TensorFlow for Deep Learning Tom Joy,2018 We will not only get you up and running with deep learning but also equip you with the skills to implement your own neural networks and apply them to the real world We will use TensorFlow an efficient Python library used to create and train our neural networks You ll learn the skills to implement their architecture quickly and efficiently without having to deal with minutiae You can rely on our expert guidance while learning the basic theory backed up with relevant examples We provide examples of neural networks which you can use to highlight the key features We then build up to more advanced networks You ll learn to utilize a Convolutional Neural Network to classify images of handwritten text and then take your CNN further to perform object detection and localization in an image This course will quickly get you past the fundamentals of TensorFlow you ll go on to more exciting things such as implementing a variety of image recognition tasks Resource description page   **Getting Started with TensorFlow 2.0 for Deep Learning** Muhammad Javed,2019 Learn to develop deep learning models and kickstart your career in deep learning with TensorFlow 2 0 About This Video Explore the latest feature set and modern deep learning APIs in TensorFlow 2 0 Develop computer vision and text sequences based on deep learning models Learn advanced deep learning topics including Keras functional API In Detail Deep learning is a trending technology if you want to break into cutting edge AI and solve real world data driven problems Google s TensorFlow is a popular library for implementing deep learning algorithms because of its rapid developments and commercial deployments This course provides you with the core of deep learning using TensorFlow 2 0 You ll learn to train your deep learning networks from scratch pre process and split your datasets train deep learning models for real world applications and validate the accuracy of your models By the end of the course you ll have a profound knowledge of how you can leverage TensorFlow 2 0 to build real world applications without much effort

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