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the professional programmer s deitel guide to python with introductory artificial intelligence case studies written for programmers with a background in another high level language python for programmers uses hands on instruction to teach today s most compelling leading edge computing technologies and programming in python one of the world s most popular and fastest growing languages please read the table of contents diagram inside the front cover and the preface for more details in the context of 500 real world examples ranging from individual snippets to 40 large scripts and full implementation case studies you ll use the interactive ipython interpreter with code in jupyter notebooks to quickly master the latest python coding idioms after covering python chapters 1 5 and a few key parts of chapters 6 7 you ll be able to handle significant portions of the hands on introductory ai case studies in chapters 11 16 which are loaded with cool powerful contemporary examples these include natural language processing data mining twitter for sentiment analysis cognitive computing with ibm watsontm supervised machine learning with classification and regression unsupervised machine learning with clustering computer vision through deep learning and convolutional neural networks deep learning with recurrent neural networks

big data with hadoop sparktm and nosql databases the internet of things and more you ll also work directly or indirectly with cloud based services including twitter google translatetm ibm watson microsoft azure openmapquest pubnub and more features 500 hands on real world live code examples from snippets to case studies ipython code in jupyter notebooks library focused uses python standard library and data science libraries to accomplish significant tasks with minimal code rich python coverage control statements functions strings files json serialization csv exceptions procedural functional style and object oriented programming collections lists tuples dictionaries sets numpy arrays pandas series dataframes static dynamic and interactive visualizations data experiences with real world datasets and data sources intro to data science sections ai basic stats simulation animation random variables data wrangling regression ai big data and cloud data science case studies nlp data mining twitter ibm watsontm machine learning deep learning computer vision hadoop sparktm nosql iot open source libraries numpy pandas matplotlib seaborn folium scipy nltk textblob spacy textatistic tweepy scikit learn keras and more accompanying code examples are available here ptgmedia pearsoncmg com imprint downloads informit bookreg 9780135224335 9780135224335 examples zip register your product for convenient access to downloads updates and or corrections as they become available see inside book for more information

get up and running with tensorflow js in your browser about this video get up and running with tensorflow js quickly with practical real world examples in a web browser tackle the most common machine learning problems using tensorflow js discover how to quickly include deep learning functionality in your own web applications in a web browser using pre trained models in detail in this course you ll learn how to use tensorflow js for a variety of the most popular deep learning tasks and use them in your own web browser you ll start by learning how to classify images using commonly used convolutional neural networks and you ll get up and running fast using a pre trained model then you ll explore yet another popular deep learning architecture called long short term memory recurrent neural network this time you ll classify text typed by a user in real time moving on you ll work with audio data using a specific type of cnn then we ll jump into methods to improve the results of our models by firstly looking at transfer learning here you ll improve the performance of your model quickly by using a pre trained model as a base and performing short focused training by the end of this course you ll have the skills to use tensorflow js and train your own personal models using only a web browser downloading the example code for this course you can download the example code files for this course on github at the following link github com packtpublishing tensorflow js in 3 hours if you require support please email customercare packt com

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

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

a practical guide to building high performance systems for object detection segmentation video processing smartphone applications and more key featuresdiscover how to build train and serve your own deep neural networks with tensorflow 2 and kerasapply modern solutions to a wide range of applications such as object detection and video analysislearn how to run your models on mobile devices and web pages and improve their performancebook description computer vision solutions are becoming increasingly common making their way into fields such as health automobile social media and robotics this book will help you explore tensorflow 2 the brand new version of google s open source framework for machine learning you will understand how to benefit from using convolutional neural networks cnns for visual tasks hands on computer vision with tensorflow 2 starts with the fundamentals of computer vision and deep learning teaching you how to build a neural network from scratch you will discover the features that have made tensorflow the most widely used ai library along with its intuitive keras interface you ll then move on to building training and

deploying cnns efficiently complete with concrete code examples the book demonstrates how to classify images with modern solutions such as inception and resnet and extract specific content using you only look once yolo mask r cnn and u net you will also build generative adversarial networks gans and variational autoencoders vaes to create and edit images and long short term memory networks lstms to analyze videos in the process you will acquire advanced insights into transfer learning data augmentation domain adaptation and mobile and web deployment among other key concepts by the end of the book you will have both the theoretical understanding and practical skills to solve advanced computer vision problems with tensorflow 2 0 what you will learncreate your own neural networks from scratchclassify images with modern architectures including inception and resnetdetect and segment objects in images with yolo mask r cnn and u nettackle problems faced when developing self driving cars and facial emotion recognition systemsboost your application s performance with transfer learning gans and domain adaptationuse recurrent neural networks rnns for video analysisoptimize and deploy your networks on mobile devices and in the browserwho this book is for if you re new to deep learning and have some background in python programming and image processing like reading writing image files and editing pixels this book is for you even if you re an expert curious about the new tensorflow 2 features you ll find this book useful while some theoretical concepts require knowledge of algebra and calculus the book covers concrete examples focused on practical applications such as visual recognition for self driving cars and smartphone apps

a comprehensive guide to developing neural network based solutions using tensorflow 2 0 key featuresunderstand the basics of machine learning and discover the power of neural networks and deep learningexplore the structure of the tensorflow framework and understand how to transition to tf 2 0solve any deep learning problem by developing neural network based solutions using tf 2 0book description tensorflow the most popular and widely used machine learning framework has made it possible for almost anyone to develop machine learning solutions with ease with tensorflow tf 2 0 you ll explore a revamped framework structure offering a wide variety of new features aimed at improving productivity and ease of use for developers this book covers machine learning with a focus on developing neural network based solutions you ll start by getting familiar with the concepts and techniques required to build solutions to deep learning problems as you advance you ll learn how to create classifiers build object detection and semantic segmentation networks train generative models and speed up the development process using tf 2 0 tools such as tensorflow datasets and tensorflow hub by the end of this tensorflow book you ll be ready to solve any machine learning problem by developing solutions using tf 2 0 and putting them into production what you will learngrasp machine learning and neural network techniques to solve challenging tasksapply the new features of tf 2 0 to speed up developmentuse tensorflow datasets tfds and the tf data api to build high efficiency data input pipelinesperform transfer learning and fine tuning with tensorflow hubdefine and train networks to solve object detection and semantic segmentation problemstrain generative adversarial networks gans to generate images and data distributionsuse the savedmodel file format to put a model or a generic computational graph into productionwho this book is for if you re a developer who wants to get started with machine learning and tensorflow or a data scientist interested in developing neural network solutions in tf 2 0 this book is for you experienced machine learning engineers who want to master the new features of the tensorflow framework will also find this book useful basic knowledge of calculus and a strong understanding of python programming will help you grasp the topics covered in this book

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

use tensorflow 2 x in the google colab ecosystem to create state of the art deep learning models guided by hands on examples the colab ecosystem provides a free cloud service with easy access to on demand gpu and tpu hardware acceleration for fast execution of the models you learn to build this book teaches you state of the art deep learning models in an applied manner with the only requirement being an internet connection the colab ecosystem provides everything else that you need including python tensorflow 2 x gpu and tpu support and jupyter notebooks the book begins with an example driven approach to building input pipelines that feed all machine learning models you will learn how to provision a workspace on the colab ecosystem to enable construction of effective input pipelines in a step by step manner from there you will progress into data augmentation techniques and tensorflow datasets to gain a deeper understanding of how to work with complex datasets you will find coverage of tensor processing units tpus and transfer learning followed by state of the art deep learning models including autoencoders generative adversarial networks fast style transfer object detection and reinforcement learning author dr paper provides all the applied math programming and concepts you need to master the content examples range from relatively simple to very complex when necessary examples are carefully explained concise accurate and complete care is taken to walk you through each topic through clear examples written in python that you can try out and experiment with in the google colab ecosystem in the comfort of your own home or office what you will learn take advantage of the built in support of the google colab ecosystem work with tensorflow data sets create input pipelines to feed state of the art

deep learning models create pipelined state of the art deep learning models with clean and reliable python code leverage pre trained deep learning models to solve complex machine learning tasks create a simple environment to teach an intelligent agent to make automated decisions who this book is for readers who want to learn the highly popular tensorflow deep learning platform those who wish to master the basics of state of the art deep learning models and those looking to build competency with a modern cloud service tool such as google colab

tackle common commercial machine learning problems with google s tensorflow 1 x library and build deployable solutions about this book enter the new era of second generation machine learning with python with this practical and insightful guide set up tensorflow 1 x for actual industrial use including high performance setup aspects such as multi gpu support create pipelines for training and using applying classifiers using raw real world data who this book is for this book is for data scientists and researchers who are looking to either migrate from an existing machine learning library or jump into a machine learning platform headfirst the book is also for software developers who wish to learn deep learning by example particular focus is placed on solving commercial deep learning problems from several industries using tensorflow s unique features no commercial domain knowledge is required but familiarity with python and matrix math is expected what you will learn explore how to use different machine learning models to ask different questions of your data learn how to build deep neural networks using tensorflow 1 x cover key tasks such as clustering sentiment analysis and regression analysis using tensorflow 1 x find out how to write clean and elegant python code that will optimize the strength of your algorithms discover how to embed your machine learning model in a web application for increased accessibility learn how to use multiple gpus for faster training using aws in detail google s tensorflow is a game changer in the world of machine learning it has made machine learning faster simpler and more accessible than ever before this book will teach you how to easily get started with machine learning using the power of python and tensorflow 1 x firstly you ll cover the basic installation procedure and explore the capabilities of tensorflow 1 x this is followed by training and running the first classifier and coverage of the unique features of the library including data flow graphs training and the visualization of performance with tensorboard all within an example rich context using problems from multiple industries you ll be able to further explore text and image analysis and be introduced to cnn models and their setup in tensorflow 1 x next you ll implement a complete real life production system from training to serving a deep learning model as you advance you ll learn about amazon services aws and create a deep neural network to solve a video action recognition problem lastly you ll convert the caffe model to tensorflow and be introduced to the high level tensorflow library tensorflow slim by the end of this book you will be geared up to take on any challenges of implementing tensorflow 1 x in your machine learning environment style and approach this comprehensive guide will enable you to understand the latest advances in machine learning and will empower you to implement this knowledge in your machine learning environment

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

learn how to develop intelligent applications with sequential learning and apply modern methods for language modeling with neural network architectures for deep learning with python s most popular tensorflow framework key featurestrain and deploy recurrent neural networks using the popular tensorflow libraryapply long short term memory unitsexpand your skills in complex neural network and deep learning topicsbook description developers struggle to find an easy to follow learning resource for implementing recurrent neural network rnn models rnns are the state of the art model in deep learning for dealing with sequential data from language translation to generating captions for an image rnns are used to continuously improve results this book will teach you the fundamentals of rnns with example applications in python and the tensorflow library the examples are accompanied by the right combination of theoretical knowledge and real world implementations of concepts to build a solid foundation of neural network modeling your journey starts with the simplest rnn model where you can grasp the fundamentals the book then builds on this by proposing more advanced and complex algorithms we use them to explain how a typical state of the art rnn model works from generating text to building a language translator we show how some of today s most powerful ai applications work under the hood after reading the book you will be confident with the fundamentals of rnns and be ready to pursue further study along with developing skills in this exciting field what you will learnuse tensorflow to build rnn modelsuse the correct rnn architecture for a particular machine learning taskcollect and clear the training data for your modelsuse the correct python libraries for any task during the building phase of your modeloptimize your model for higher accuracyidentify the differences between multiple models and how you can substitute themlearn the core deep learning fundamentals applicable to any machine learning modelwho this book is for this book is for machine learning engineers and data scientists who want to learn about recurrent neural network models with practical use cases exposure to python programming is required previous experience with tensorflow will be helpful but not mandatory

deploy deep learning solutions in production with ease using tensorflow you ll also develop the mathematical understanding and intuition required to invent new deep learning architectures and solutions on your own pro deep learning with tensorflow provides practical hands on expertise so you can learn deep learning from scratch and deploy meaningful deep learning solutions this book will allow you to get up to speed quickly using tensorflow and to optimize different deep learning architectures all of the practical aspects of deep learning that are relevant in any industry are emphasized in this book you will be able to use the prototypes demonstrated to build new deep learning applications the code presented in the book is available in the form of ipython notebooks and scripts which allow you to try out examples and extend them in interesting ways you will be equipped with the mathematical foundation and scientific knowledge to pursue research in this field and give back to the community what you ll learn understand full stack deep learning using tensorflow and gain a solid mathematical foundation for deep learning deploy complex deep learning solutions in production using tensorflow carry out research on deep learning and perform experiments using tensorflow who this book is for data scientists and machine learning professionals software developers graduate students and open source enthusiasts

get to grips with key structural changes in tensorflow 2 0 key featuresexplore tf keras apis and strategies to run gpus tpus and compatible apis across the tensorflow

ecosystemlearn and implement best practices for building data ingestion pipelines using tf 2 0 apismigrate your existing code from tensorflow 1 x to tensorflow 2 0 seamlesslybook description tensorflow is an end to end machine learning platform for experts as well as beginners and its new version tensorflow 2 0 tf 2 0 improves its simplicity and ease of use this book will help you understand and utilize the latest tensorflow features what s new in tensorflow 2 0 starts by focusing on advanced concepts such as the new tensorflow keras apis eager execution and efficient distribution strategies that help you to run your machine learning models on multiple gpus and tpus the book then takes you through the process of building data ingestion and training pipelines and it provides recommendations and best practices for feeding data to models created using the new tf keras api you ll explore the process of building an inference pipeline using tf serving and other multi platform deployments before moving on to explore the newly released aiy which is essentially do it yourself ai this book delves into the core apis to help you build unified convolutional and recurrent layers and use tensorboard to visualize deep learning models using what if analysis by the end of the book you ll have learned about compatibility between tf 2 0 and tf 1 x and be able to migrate to tf 2 0 smoothly what you will learnimplement tf keras apis in tf 2 0 to build train and deploy production grade modelsbuild models with keras integration and eager executionexplore distribution strategies to run models on gpus and tpusperform what if analysis with tensorboard across a variety of modelsdiscover vision kit voice kit and the edge tpu for model deploymentsbuild complex input data pipelines for ingesting large training datasetswho this book is for if you re a data scientist machine learning practitioner deep learning researcher or ai enthusiast who wants to migrate code to tensorflow 2 0 and explore the latest features of tensorflow 2 0 this book is for you prior experience with tensorflow and python programming is necessary to understand the concepts covered in the book

are you short on time to start from scratch to use deep learning to solve complex problems involving topics like neural networks and reinforcement learning if yes then this is the course to help you this course is designed to help you to overcome various data science problems by using efficient deep learning models built in tensorflow the course begins with a quick introduction to tensorflow essentials next we start with deep neural networks for different problems and then explore the applications of convolutional neural networks on two real datasets if you re facing time series problem then we will show you how to tackle it using rnn we will also highlight how autoencoders can be used for efficient data representation lastly we will take you through some of the important techniques to implement generative adversarial networks all these modules are developed with step by step tensorflow implementation with the help of real examples by the end of the course you will be able to develop deep learning based solutions to any kind of problem you have without any need to learn deep learning models from scratch rather using tensorflow and it s enormous power resource description page

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

this practical guide to building deep learning models with the new features of tensorflow 2 0 is filled with engaging projects simple language and coverage of the latest algorithms in tensorflow 2 0 in action you ll dig into the newest version of google s amazing tensorflow framework as you learn to create incredible deep learning applications you ll develop a sentiment analyzer for movie reviews an nlp spam classifier and other hands on projects

learn how to solve real life problems using different methods like logic regression random forests and svm s with tensorflow key features understand predictive analytics along with its challenges and best practices embedded with assessments that will help you revise the concepts you have learned in this book book description predictive analytics discovers hidden patterns from structured and unstructured data for automated decision making in business intelligence predictive decisions are becoming a huge trend worldwide catering to wide industry sectors by predicting which decisions are more likely to give maximum results tensorflow google s brainchild is immensely popular and extensively used for predictive analysis this book is a quick learning guide on all the three types of machine learning that is supervised unsupervised and reinforcement learning with tensorflow this book will teach you predictive analytics for high dimensional and sequence data in particular you will learn the linear regression model for regression analysis you will also learn how to use regression for predicting continuous values you will learn supervised learning algorithms for predictive analytics you will explore unsupervised learning and clustering using k meansyou will then learn how to predict neighborhoods using k means and then see another example of clustering audio clips based on their audio features this book is ideal 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 this book is embedded with useful assessments that will help you revise the concepts you have learned in this book what you will learn learn tensorflow features in a real life problem followed by detailed tensorflow installation and configuration explore computation graphs data and programming models also get an insight into an example of implementing linear regression model for predictive analytics solve the titanic survival problem using logistic regression random forests and svms for predictive analytics dig deeper into predictive analytics and find out how to take advantage of it to cluster records belonging to the certain group or class for a dataset of unsupervised observations learn several examples of how to apply reinforcement learning algorithms for developing predictive models on real life datasets who this book is for this book is aimed at 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

work with tensorflow and keras for real performance of deep learning key features combines theory and implementation with in detail use cases coverage on both tensorflow 1 x and 2 x with elaborated concepts exposure to distributed training gans and reinforcement learning description mastering tensorflow 2 x is a must to read and practice if you are interested in building various kinds of neural networks with high level tensorflow and keras apis the book begins with the basics of tensorflow and neural network concepts and goes into specific topics like image classification object detection time series forecasting and generative adversarial networks while we are practicing tensorflow 2 6 in this book the version of tensorflow will change with time however you can still use this book to witness how tensorflow outperforms this book includes the use of a local jupyter notebook and the use of google colab in various use cases including gan and image classification tasks while you explore the performance of tensorflow the book also covers various concepts and in detail explanations around reinforcement learning model optimization and time series models what you will learn getting started with tensorflow 2 x and basic building blocks get well versed in functional programming with tensorflow practice time series analysis along with strong understanding of concepts get introduced to use of tensorflow in reinforcement learning and generative adversarial networks train distributed models and how to optimize them who this book is for this book is designed for machine learning engineers nlp engineers and deep learning practitioners who want to utilize the performance of tensorflow in their ml and ai projects readers are expected to have some familiarity with tensorflow and the basics of machine learning would be helpful table of contents 1 getting started with tensorflow 2 x 2 machine learning with tensorflow 2 x 3 keras based apis 4 convolutional neural networks in tensorflow 5 text processing with tensorflow 2 x 6 time series forecasting with tensorflow 2 x 7 distributed training and datainput pipelines 8 reinforcement learning 9 model optimization 10 generative adversarial networks

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

Eventually, **Tensorrt 3 Faster Tensorflow Inference And Volta Support** will utterly discover a supplementary experience and talent by spending more cash. still when? do you receive that you require to get those all needs later having significantly cash? Why dont you attempt to acquire something basic in the beginning? Thats something that will guide you to understand even more Tensorrt 3 Faster Tensorflow Inference And Volta Supportnot far off from the globe, experience, some places, as soon as history, amusement, and a lot more? It is your extremely Tensorrt 3 Faster Tensorflow Inference And Volta Supportown era to decree reviewing habit. along with guides you could enjoy now is **Tensorrt 3 Faster Tensorflow Inference And Volta Support** below.

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