Introduction To Tensorflow Python Programming Tutorials

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programming with python 8 book bundle deep learning with keras here is a preview of what you ll learn here the difference between deep learning and machine learning deep neural networks convolutional neural networks building deep learning models with keras multi layer perceptron network models and much more convolutional neural networks in python here is a preview of what you ll learn here convolutional neural networks structure how convolutional neural networks actually work convolutional neural networks applications the importance of convolution operator how to build a simple image classification cnn and much much more python machine learning here is a preview of what you ll learn here basics behind machine learning techniques most commonly used machine learning algorithms linear and logistic regression decision trees support vector machines k nearest neighbors random forests solving multi clasisfication problems data visualization with matplotlib and data transformation with pandas and scikit learn solving multi label classification problems and much much more machine learning with tensorflow here is a preview of what you ll learn here what is machine learning main uses and benefits of machine learning how to get started with tensorflow installing and loading data data flow graphs and basic tensorflow

expressions creating mnist classifiers with one hot transformation and much much more data analytics with python here is a preview of what you ll learn here what is data analytics difference between data science big data and data analytics installing python python data structures pandas series and data frames and much much more natural language processing with python here is a preview of what you ll learn here challenges of natural language processing how natural language processing works part of speech tagging n grams running natural language processing script and much much more devops handbook here is a preview of what you ll learn here issues and mistakes plaguing software development what is software development life cycle how software development life cycle works the origins of devops testing and building systems tools and much much more devops adoption here is a preview of what you ll learn here devops definition overcoming traditional dev and ops devops and security integration devops success factors is devops right for you and much much more get this book bundle now and save money

imagine a world where you can make a computer program learn for itself what if it could recognize who is in a picture or the exact websites that you want to look for when you type it into the program what if you were able to create any kind of program that you wanted even as a beginner programmer without all of the convoluted codes and other information that makes your head spin this is actually all possible the programs that were mentioned before are all a part of machine learning this is a breakthrough in the world of information technology which allows the computer to learn how to behave rather than asking the programmer to think of every single instance that may show up with their user ahead of time it is taking over the world and you may be using it now without even realizing it if you have used a search engine worked with photo recognition or done speech recognition devices on your phone then you have worked with machine learning and if you combine it with the python programming

language it is faster more powerful and easier even for beginners to create your own programs today python is considered the ultimate coding language for beginners but once you start to use it you will never be able to tell many of the best programs out there use this language behind them and if you are a beginner who is ready to learn this is a great place to start if you have a program in mind or you just want to be able to get some programming knowledge and learn more about the power that comes behind it then this is the guidebook for you some of the topics that we will discuss include the fundamentals of machine learning deep learning and neural networks how to set up your environment and make sure that python tensorflow and scikit learn work well for you how to master neural network implementation using different libraries how random forest algorithms are able to help out with machine learning how to uncover hidden patterns and structures with clustering how recurrent neural networks work and when to use the importance of linear classifiers and why they need to be used in machine learning and much more this guidebook is going to provide you with the information you need to get started with python machine learning if you have an idea for a great program but you don t have the technical knowledge to make it happen then this guidebook will help you get started machine learning has the capabilities and python has the ease to help you even as a beginner create any product that you would like if you want to learn more about how to make the best programs with python machine learning buy the book today

learn how to use tensorflow 2 0 to build machine learning and deep learning models with complete examples the book begins with introducing tensorflow 2 0 framework and the major changes from its last release next it focuses on building supervised machine learning models using tensorflow 2 0 it also demonstrates how to build models using customer estimators further it explains how to use tensorflow 2 0 api to build machine learning and deep learning models for image classification using the

standard as well as custom parameters you ll review sequence predictions saving serving deploying and standardized datasets and then deploy these models to production all the code presented in the book will be available in the form of executable scripts at github which allows you to try out the examples and extend them in interesting ways what you ll learn review the new features of tensorflow 2 0 use tensorflow 2 0 to build machine learning and deep learning models perform sequence predictions using tensorflow 2 0 deploy tensorflow 2 0 models with practical examples who this book is for data scientists machine and deep learning engineers

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

publisher s note products purchased from third party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product explore the principles and practices of machine learning and deep learning this comprehensive textbook lays out the theories and applications of machine learning and deep learning in a style that is approachable for students and working professionals at all math skill levels you will discover how to handle data regression and logistic regression decision trees cross validation techniques and error testing artificial neural networks ann cnn and rnn random forests boosting and more machine learning and deep learning using python and tensorflow includes valuable case studies across professional domains including banking insurance e commerce retail and healthcare the book presents examples using both python and tensorflow programming languages and clearly demonstrates how to utilize this cutting edge technology in today s smart devices presented in a mathematically non rigorous way includes image classification and computer vision tasks written by a pair of business analytics experts

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

artificial intelligence is the rage today while you may find it difficult to understand the most recent advancements in ai it simply boils down to two most celebrated developments machine learning and deep learning in 2020 deep learning is leagues ahead because of its supremacy when it comes to accuracy especially when trained with enormous amounts of data deep learning essentially is a subset of machine learning but it s capable of achieving tremendous power and flexibility and the era of big data technology presents vast opportunities for incredible innovations in deep learning how is this book different this book gives equal importance to the theoretical as well as practical aspects of deep learning you will understand how high performing deep learning algorithms work in every chapter the theoretical explanation of the different types of deep learning techniques is followed by practical examples you will learn how to implement different deep learning techniques using the tensorflow keras library for python each chapter contains exercises that you can use to assess your understanding of the concepts explained in that chapter also in the resources the python notebook for each chapter is provided the key advantage of buying this book is you get instant access to all the extra content presented with this book python codes references exercises and pdfs on the publisher s website you don t need to spend an extra cent the datasets used in this book are either downloaded at runtime or are available in the resources datasets folder another advantage is a detailed explanation of the installation steps for the software that you will need to implement the various deep learning algorithms in this book is provided that is you get to experiment with the practical aspects of deep learning right from page 1 even if you are new to python you

will find the crash course on python programming language in the first chapter immensely useful since all the codes and datasets are included with this book you only need access to a computer with the internet to get started the topics covered include python crash course deep learning prerequisites linear and logistic regression neural networks from scratch in python introduction to tensorflow and keras convolutional neural networks sequence classification with recurrent neural networks deep learning for natural language processing unsupervised learning with autoencoders answers to all exercises click the buy button and download the book now to start your deep learning journey

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

achieve tensorflow certification with this comprehensive guide covering all exam topics using a hands on step by step approach perfect for aspiring tensorflow developers key features build real world computer vision natural language and time series applications learn how to overcome issues such as overfitting with techniques such as data augmentation master transfer learning what it is and how to build applications with pre trained models purchase of the print or kindle book includes a free pdf ebook book descriptionthe tensorflow developer certificate guide is an indispensable resource for machine learning enthusiasts and data professionals seeking to master tensorflow and validate their skills by earning the certification this practical guide equips you with the skills and knowledge necessary to build robust deep learning models that effectively tackle real world challenges across diverse industries you ll embark on a journey of skill acquisition through easy to follow step by step explanations and practical examples mastering the craft of building sophisticated models using tensorflow 2 x and overcoming common hurdles such as overfitting and data augmentation with this book you ll discover a wide range of practical applications including computer vision natural language processing and time series prediction to prepare you for the tensorflow developer certificate exam it offers comprehensive coverage of exam topics including image classification natural language processing nlp and time series analysis with the tensorflow certification you ll be primed to tackle a broad spectrum of business problems and advance your career in the exciting field of machine learning whether you are a novice or an experienced developer this guide will propel you to achieve your aspirations and become a highly skilled tensorflow professional what you will learn prepare for success in the tensorflow developer certification exam master regression and classification modelling with tensorflow 2 x build train evaluate and fine tune deep learning models combat overfitting using techniques such as dropout and data augmentation classify images encompassing preprocessing and image data

augmentation apply tensorflow for nlp tasks like text classification and generation predict time series data such as stock prices explore real world case studies and engage in hands on exercises who this book is forthis book is for machine learning and data science enthusiasts as well as data professionals aiming to demonstrate their expertise in building deep learning applications with tensorflow through a comprehensive hands on approach this book covers all the essential exam prerequisites to equip you with the skills needed to excel as a tensorflow developer and advance your career in machine learning a fundamental grasp of python programming is the only prerequisite

explore tensorflow s capabilities to perform efficient deep learning on images key features discover image processing for machine vision build an effective image classification system using the power of cnns leverage tensorflow s capabilities to perform efficient deep learning book description tensorflow is google s popular offering for machine learning and deep learning quickly becoming a favorite tool for performing fast efficient and accurate deep learning tasks hands on deep learning for images with tensorflow shows you the practical implementations of real world projects teaching you how to leverage tensorflow s capabilities to perform efficient image processing using the power of deep learning with the help of this book you will get to grips with the different paradigms of performing deep learning such as deep neural nets and convolutional neural networks followed by understanding how they can be implemented using tensorflow by the end of this book you will have mastered all the concepts of deep learning and their implementation with tensorflow and keras what you will learn build machine learning models particularly focused on the mnist digits work with docker and keras to build an image classifier understand natural language models to process text and images prepare your dataset for machine learning create classical convolutional and deep neural networks create a restful image classification

server who this book is for hands on deep learning for images with tensorflow is for you if you are an application developer data scientist or machine learning practitioner looking to integrate machine learning into application software and master deep learning by implementing practical projects in tensorflow knowledge of python programming and basics of deep learning are required to get the best out of this book

do you want to learn how to write your own codes and programming and get your computer set up to learn just like humans do do you want to learn how to write out codes in deep learning without having to spend years going to school to learn to code and how all this works do you know a bit of python coding and want to learn more about how this deep learning works this guidebook is the tool that you need to not only learn how to do machine learning but also learn how to take this even further and write some of your own codes in deep learning the field of deep learning is pretty new and many programmers have not been able to delve into the depths of what we can see with this type of programming but with the growing market for products and technology that can act and learn just like the human brain this field is definitely taking off this book will take some time to explore the different python libraries that will help you to do some deep learning algorithms in no time investing your time in the python language and learning the different libraries that are needed to turn this basic programming language into a deep learning machine can be one of the best decisions for you by learning some of the tips in this book you will be able to save time and resources when it comes to your deep learning needs rather than spending time with other more difficult programming languages or having to go take complicated classes to learn how to do these algorithms we will explore exactly how to do all of the tasks that you need with this type of machine learning you will learn 1 what deep learning is how it is different from machine learning and why python is such a beneficial language to use with the deep learning algorithms 2 the basics of the three main python

languages that will help you get the work done including tensorflow keras and pytorch 3 how to install the three python libraries to help you get started 4 a closer look at neural networks what they are why they are important and some of the mathematics of making them work 5 the basics you need to know about tensorflow and some of the deep learning you can do with this library 6 the basics of the keras library and some of the deep learning you can do with this library 7 a look at the pytorch library how it is different from the other two and the basics of deep learning with this library 8 and so much more even if you are just a beginner with very little programming knowledge but lots of big dreams and even bigger ideas this book is going to give you the tools that you need to start with deep learning

do you want to learn how to write your own codes and programming and get your computer set up to learn just like humans do do you want to learn how to write out codes in deep learning without having to spend years going to school to learn to code and how all this works do you know a bit of python coding and want to learn more about how this deep learning works this guidebook is the tool that you need to not only learn how to do machine learning but also learn how to take this even further and write some of your own codes in deep learning the field of deep learning is pretty new and many programmers have not been able to delve into the depths of what we can see with this type of programming but with the growing market for products and technology that can act and learn just like the human brain this field is definitely taking off this book will take some time to explore the different python libraries that will help you to do some deep learning algorithms in no time investing your time in the python language and learning the different libraries that are needed to turn this basic programming language into a deep learning machine can be one of the best decisions for you by learning some of the tips in this book you will be able to save time and resources when it comes to your deep learning needs rather than spending time with

other more difficult programming languages or having to go take complicated classes to learn how to do these algorithms we will explore exactly how to do all of the tasks that you need with this type of machine learning you will learn 1 what deep learning is how it is different from machine learning and why python is such a beneficial language to use with the deep learning algorithms 2 the basics of the three main python languages that will help you get the work done including tensorflow keras and pytorch 3 how to install the three python libraries to help you get started 4 a closer look at neural networks what they are why they are important and some of the mathematics of making them work 5 the basics you need to know about tensorflow and some of the deep learning you can do with this library 6 the basics of the keras library and some of the deep learning you can do with this library 7 a look at the pytorch library how it is different from the other two and the basics of deep learning with this library 8 and so much more even if you are just a beginner with very little programming knowledge but lots of big dreams and even bigger ideas this book is going to give you the tools that you need to start with deep learning

this book doesn t have any superpowers or magic formula to help you master the art of neural networks and deep learning we believe that such learning is all in your heart you need to learn a concept by heart and then brainstorm its different possibilities i don t claim that after reading this book you will become an expert in python and deep learning neural networks instead you will for sure have a basic understanding of deep learning and its implications and real life applications most of the time what confuses us is the application of a certain thing in our lives once we know that we can relate the subject to that particular thing and learn an interesting thing is that neural networks also learn the same way this makes it easier to learn about them when we know the basics let s take a look at what this book has to offer the basics of python including data types operators and numbers advanced programming in python with python

expressions types and much more a comprehensive overview of deep learning and its link to the smart systems that we are now building an overview of how artificial neural networks work in real life an overview of pytorch an overview of tensorflow an overview of keras how to create a convolutional neural network a comprehensive understanding of deep learning applications and its ethical implications including in the present and future this book offers you the basic knowledge about python and deep learning neural networks that you will need to lay the foundation for future studies this book will start you on the road to mastering the art of deep learning neural networks when i say that i don t have the magic formula to make you learn i mean it my point is that you should learn python coding and python libraries to build neural networks by practicing hard the more you practice the better it is for your skills it is only after thorough and in depth practice that you will be able to create your own programs unlike other books i don t claim that this book will make you a master of deep learning after a single read that s not realistic in fact it s even a bit absurd what i claim is that you will definitely learn about the basics the rest is practice the more you practice the better you code

build machine and deep learning systems with the newly released tensorflow 2 and keras for the lab production and mobile devices key featuresintroduces and then uses tensorflow 2 and keras right from the startteaches key machine and deep learning techniquesunderstand the fundamentals of deep learning and machine learning through clear explanations and extensive code samplesbook description deep learning with tensorflow 2 and keras second edition teaches neural networks and deep learning techniques alongside tensorflow tf and keras you ll learn how to write deep learning applications in the most powerful popular and scalable machine learning stack available tensorflow is the machine learning library of choice for professional applications while keras offers a simple and powerful python api for accessing

tensorflow tensorflow 2 provides full keras integration making advanced machine learning easier and more convenient than ever before this book also introduces neural networks with tensorflow runs through the main applications regression convnets cnns gans rnns nlp covers two working example apps and then dives into tf in production tf mobile and using tensorflow with automl what you will learnbuild machine learning and deep learning systems with tensorflow 2 and the keras apiuse regression analysis the most popular approach to machine learningunderstand convnets convolutional neural networks and how they are essential for deep learning systems such as image classifiersuse gans generative adversarial networks to create new data that fits with existing patternsdiscover rnns recurrent neural networks that can process sequences of input intelligently using one part of a sequence to correctly interpret anotherapply deep learning to natural human language and interpret natural language texts to produce an appropriate responsetrain your models on the cloud and put tf to work in real environmentsexplore how google tools can automate simple ml workflows without the need for complex modelingwho this book is for this book is for python developers and data scientists who want to build machine learning and deep learning systems with tensorflow this book gives you the theory and practice required to use keras tensorflow 2 and automl to build machine learning systems some knowledge of machine learning is expected

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

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

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

apply neural network architectures to build state of the art computer vision applications using the python programming language key featuresgain a fundamental understanding of advanced computer vision and neural network models in use todaycover tasks such as low level vision image classification and object

detectiondevelop deep learning models on cloud platforms and optimize them using tensorflow lite and the openvino toolkitbook description computer vision allows machines to gain human level understanding to visualize process and analyze images and videos this book focuses on using tensorflow to help you learn advanced computer vision tasks such as image acquisition processing and analysis you ll start with the key principles of computer vision and deep learning to build a solid foundation before covering neural network architectures and understanding how they work rather than using them as a black box next you ll explore architectures such as vgg resnet inception r cnn ssd yolo and mobilenet as you advance you ll learn to use visual search methods using transfer learning you ll also cover advanced computer vision concepts such as semantic segmentation image inpainting with gan s object tracking video segmentation and action recognition later the book focuses on how machine learning and deep learning concepts can be used to perform tasks such as edge detection and face recognition you ll then discover how to develop powerful neural network models on your pc and on various cloud platforms finally you ll learn to perform model optimization methods to deploy models on edge devices for real time inference by the end of this book you ll have a solid understanding of computer vision and be able to confidently develop models to automate tasks what you will learnexplore methods of feature extraction and image retrieval and visualize different layers of the neural network modeluse tensorflow for various visual search methods for real world scenariosbuild neural networks or adjust parameters to optimize the performance of modelsunderstand tensorflow deeplab to perform semantic segmentation on images and dcgan for image inpaintingevaluate your model and optimize and integrate it into your application to operate at scaleget up to speed with techniques for performing manual and automated image annotationwho this book is for this book is for computer vision professionals image processing professionals machine

learning engineers and ai developers who have some knowledge of machine learning and deep learning and want to build expert level computer vision applications in addition to familiarity with tensorflow python knowledge will be required to get started with this book

build your own neural network today through easy to follow instruction and examples you ll learn the fundamentals of deep learning and build your very own neural network in python using tensorflow keras pytorch and theano while you have the option of spending thousands of dollars on big and boring textbooks we recommend getting the same pieces of information for a fraction of the cost so get your copy now why this book book objectivesthe following are the objectives of this book to help you understand deep learning in detail to help you know how to get started with deep learning in python by setting up the coding environment to help you transition from a deep learning beginner to a professional to help you learn how to develop a complete and functional artificial neural network model in python on your own who this book is for the author targets the following groups of people anybody who is a complete beginner to deep learning with python anybody in need of advancing their python for deep learning skills professors lecturers or tutors who are looking to find better ways to explain deep learning to their students in the simplest and easiest way students and academicians especially those focusing on python programming neural networks machine learning and deep learning what do you need for this book you are required to have installed the following on your computer python 3 x tensorflow keras pytorch the author guides you on how to install the rest of the python libraries that are required for deep learning the author will guide you on how to install and configure the rest what is inside the book what is deep learning an overview of artificial neural networks exploring the libraries installation and setup tensorflow basics deep learning with tensorflow keras basics pytorch basics creating convolutional neural networks with

pytorch creating recurrent neural networks with pytorch from the back cover deep learning is part of machine learning methods based on learning data representations this book written by samuel burns provides an excellent introduction to deep learning methods for computer vision applications the author does not focus on too much math since this guide is designed for developers who are beginners in the field of deep learning the book has been grouped into chapters with each chapter exploring a different feature of the deep learning libraries that can be used in python programming language each chapter features a unique neural network architecture including convolutional neural networks after reading this book you will be able to build your own neural networks using tenserflow keras and pytorch moreover the author has provided python codes each code performing a different task corresponding explanations have also been provided alongside each piece of code to help the reader understand the meaning of the various lines of the code in addition to this screenshots showing the output that each code should return have been given the author has used a simple language to make it easy even for beginners to understand

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