Introduction To Tensorflow Python Programming Tutorials

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Introduction To Tensorflow Python Programming Tutorials:

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 **From Street-smart to Web-wise®** Al Marcella,Brian Moore,Madeline Parisi,2025-10-16 Our seventh and eighth graders are now officially teens and online activities are second nature From Street smart to Web wise A Cyber Safety Training Manual Built for Teachers and Designed for Children isn t just another book Teachers will find this book to be a road map to navigate the digital landscape safely with confidence and care as their critical job of ensuring students safety in a digital world expands Dive into engaging content that illuminates the importance of cyber safety not only in our classrooms but extending into the global community Written by authors who are recognized experts in their respective fields this accessible manual is a timely resource for educators Each chapter is filled with practical examples and teacher tips stimulating discussion points and ready to use lesson plans tailored for students in seventh and eighth grades Regardless of your technology skill level this book will provide you with the guidance and the tools you need to make student cyber safety awareness practical fun and impactful Parents consider educators their partners in creating cyber secure spaces This book stands as a framework of commitment to that partnership whether you are in a middle school environment or in a child serving agency It confirms proactive steps in equipping our young learners with the awareness and skills they need to tread the digital world securely By choosing From Street smart to Web wise A Cyber Safety Training Manual Built for Teachers and Designed for Children you position yourself at the forefront of educational guardianship championing a future where our children can explore learn and grow online without fear Join us on this journey to empower the next generation one click at a time *Applied Deep Learning* Paul Fergus,Carl Chalmers,2022-07-18 This book focuses on the applied aspects of artificial intelligence using enterprise frameworks and technologies The book is applied in nature and will equip the reader with the necessary skills and understanding for delivering enterprise ML technologies It will be valuable for undergraduate and postgraduate students in subjects such as artificial intelligence and data science and also for industrial practitioners engaged with data analytics and machine learning tasks The book covers all of the key conceptual aspects of the field and provides a foundation for all interested parties to develop their own artificial intelligence applications *Artificial Intelligence for Engineers* Zhen "Leo" Liu,2025-01-03 This textbook presents basic knowledge and essential toolsets needed for people who want to step into artificial intelligence AI

The book is especially suitable for those college students graduate students instructors and IT hobbyists who have an engineering mindset That is it serves the idea of getting the job done quickly and neatly with an adequate understanding of why and how It is designed to allow one to obtain a big picture for both AI and essential AI topics within the shortest amount of time **Python Programming: Basic to Advanced** Puja S. Gholap,2025-05-26 Document from the year 2025 in the subject Engineering Computer Engineering grade A Savitribai Phule Pune University formerly University of Pune Savitribai Phule Pune University course B E language English abstract Welcome to a comprehensive journey through the world of Python programming a language that has revolutionized the field of computer science and continues to be a vital tool in various professional domains This book Python Programming for All Basic to Advanced aims to empower readers like you with the knowledge and skills to harness the full potential of Python no matter your starting point Python s simplicity and versatility have made it one of the most beloved programming languages among both beginners and seasoned coders Whether you are a student a hobbyist a professional coder or even someone from a non technical background looking to dip your toes into the world of programming this book is for you The book is structured to provide a gradual learning experience starting from the very basics and gradually moving towards advanced concepts In the early chapters you will be introduced to the fundamental aspects of Python such as syntax data types and control structures As you progress you will explore more complex topics like object oriented programming data structures algorithms and more By the end you will be equipped to use Python for a wide range of applications from web development and data analysis to artificial intelligence and machine learning Each chapter is designed with a balance of theory and practical examples followed by exercises that reinforce learning The book also includes useful tips and tricks common pitfalls to avoid and insights into how Python is used in the real world The goal of Python Programming for All Basic to Advance is not just to teach you Python but also to instill a problem solving mindset and coding best practices This will enable you to not just understand Python but also to think like a Python programmer We hope that this book will ignite your passion for programming and open up new opportunities for you in the digital world So get ready to embark on a thrilling adventure into the world of Python programming **Machine Learning and Deep Learning Using Python and TensorFlow** Venkata Reddy Konasani,Shailendra Kadre,2021-04-29 Understand the principles and practices of machine learning and deep learning This hands on guide lays out machine learning and deep learning techniques and technologies in a style that is approachable using just the basic math required Written by a pair of experts in the field Machine Learning and Deep Learning Using Python and TensorFlow contains case studies in several industries including banking insurance e commerce retail and healthcare The book shows how to utilize machine learning and deep learning functions in today s smart devices and apps You will get download links for datasets code and sample projects referred to in the text Coverage includes Machine learning and deep learning concepts Python programming and statistics fundamentals Regression and logistic regression Decision trees Model selection and cross

validation Cluster analysis Random forests and boosting Artificial neural networks TensorFlow and Keras Deep learning hyperparameters Convolutional neural networks Recurrent neural networks and long short term memory   *Tiny Machine Learning: Design Principles and Applications* Agbotiname Lucky Imoize,Dinh-Thuan Do,Houbing Song,2026-02-17 An expert compilation of on device training techniques regulatory frameworks and ethical considerations of TinyML design and development In Tiny Machine Learning Design Principles and Applications a team of distinguished researchers delivers a comprehensive discussion of the critical concepts design principles applications and relevant issues in Tiny Machine Learning TinyML Expert contributors introduce a new low power resource offering vast applications in IoT devices with system algorithm co design Tiny Machine Learning explores TinyML paradigms and enablers TinyML for anomaly detection and the learning panorama under TinyML Readers will find explanations of TinyML devices and tools power consumption and memory in IoT microcontrollers and lightweight frameworks for TinyML The book also describes TinyML techniques for real time and environmental applications Additional topics covered in the book include A thorough introduction to security and privacy techniques for TinyML devices including the implementation of novel security schemes Incisive explorations of power consumption and memory in IoT MCUs including ultralow power smart IoT devices with embedded TinyML Practical discussions of TinyML research targeting microcontrollers for data extraction and synthesis Perfect for industry and academic researchers scientists and engineers Tiny Machine Learning will also benefit lecturers and graduate students interested in machine learning   Machine Learning with BigQuery ML Alessandro Marrandino,2021-06-11 Manage different business scenarios with the right machine learning technique using Google s highly scalable BigQuery ML Key FeaturesGain a clear understanding of AI and machine learning services on GCP learn when to use these and find out how to integrate them with BigQuery MLLeverage SQL syntax to train evaluate test and use ML modelsDiscover how BigQuery works and understand the capabilities of BigQuery ML using examplesBook Description BigQuery ML enables you to easily build machine learning ML models with SQL without much coding This book will help you to accelerate the development and deployment of ML models with BigQuery ML The book starts with a quick overview of Google Cloud and BigQuery architecture You ll then learn how to configure a Google Cloud project understand the architectural components and capabilities of BigQuery and find out how to build ML models with BigQuery ML The book teaches you how to use ML using SQL on BigQuery You ll analyze the key phases of a ML model s lifecycle and get to grips with the SQL statements used to train evaluate test and use a model As you advance you ll build a series of use cases by applying different ML techniques such as linear regression binary and multiclass logistic regression k means ARIMA time series deep neural networks and XGBoost using practical use cases Moving on you ll cover matrix factorization and deep neural networks using BigQuery ML s capabilities Finally you ll explore the integration of BigQuery ML with other Google Cloud Platform components such as AI Platform Notebooks and TensorFlow along with discovering best practices and tips and tricks for hyperparameter tuning and

performance enhancement By the end of this BigQuery book you ll be able to build and evaluate your own ML models with BigQuery ML What you will learnDiscover how to prepare datasets to build an effective ML modelForecast business KPIs by leveraging various ML models and BigQuery MLBuild and train a recommendation engine to suggest the best products for your customers using BigQuery MLDevelop train and share a BigQuery ML model from previous parts with AI Platform NotebooksFind out how to invoke a trained TensorFlow model directly from BigQueryGet to grips with BigQuery ML best practices to maximize your ML performanceWho this book is for This book is for data scientists data analysts data engineers and anyone looking to get started with Google s BigQuery ML You ll also find this book useful if you want to accelerate the development of ML models or if you are a business user who wants to apply ML in an easy way using SQL Basic knowledge of BigQuery and SQL is required   *Deep Learning Crash Course for Beginners with Python* Ai Publishing,2020-05-25 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

Advanced Deep Learning for Engineers and Scientists Kolla Bhanu Prakash,Ramani Kannan,S.Albert Alexander,G. R. Kanagachidambaresan,2021-07-24 This book provides a complete illustration of deep learning concepts with case studies and practical examples useful for real time applications This book introduces a broad range of topics in deep learning The authors start with the fundamentals architectures tools needed for effective implementation for scientists They then present technical exposure towards deep learning using Keras Tensorflow Pytorch and Python They proceed with advanced concepts with hands on sessions for deep learning Engineers scientists researches looking for a practical approach to deep learning will enjoy this book Presents practical basics to advanced concepts in deep learning and how to apply them through various projects Discusses topics such as deep learning in smart grids and renewable energy Explains how to implement advanced techniques in deep learning using Pytorch Keras Python programming   Primer to Neuromorphic Computing Harish Garg,Jyotir Moy Chatterjee,R Sujatha,Shatrughan Modi,2024-11-09 Primer to Neuromorphic Computing highlights critical and ongoing research into the diverse applications of neuromorphic computing It includes an overview of primary scientific concepts for the research topic of neuromorphic computing such as neurons as computational units artificial intelligence machine learning and neuromorphic models It also discusses the fundamental design method and organization of neuromorphic architecture Hardware for neuromorphic systems can be developed by exploiting the magnetic properties of different materials These systems are more energy efficient and enable faster computation Magnetic tunnel junctions and magnetic textures can be employed to act as neurons and synapses Neuromorphic systems have general intelligence like humans as they can apply knowledge gained in one domain to other domains Discusses potential neuromorphic applications in computing Presents current trends and models in neuromorphic computing and neural network hardware architectures Shows the development of novel devices and hardware to enable neuromorphic computing Offers information about computation and learning principles for neuromorphic systems Provides information about Neuromorphic implementations of neurobiological learning algorithms Discusses biologically inspired neuromorphic systems and devices including adaptive bio interfacing and hybrid systems consisting of living matter and synthetic matter   **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   Python for Programmers Paul Deitel,Harvey Deitel,2019-03-15 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 http 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   Deep Learning with Python Mark Graph,2019-10-15 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   Learn TensorFlow 2.0 Pramod Singh,Avinash Manure,2019-12-17 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 *Python Machine Learning For Beginners* Finn Sanders,2019-05-22 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 IoT, Cloud and Data Science S. Prasanna Devi,G. Paavai Anand,M. Durgadevi,Golda Dilip,S. Kannadhasan,2023-02-27 Selected peer reviewed full text papers from the International Research Conference on IoT Cloud and Data Science IRCICD 22 Selected peer reviewed full text papers from the International Research Conference on IoT

Cloud and Data Science IRCICD 22 May 06 07 2022 Chennai India   Hands-On Deep Learning Algorithms with Python Sudharsan Ravichandiran,2019-07-25 Understand basic to advanced deep learning algorithms the mathematical principles behind them and their practical applications Key FeaturesGet up to speed with building your own neural networks from scratch Gain insights into the mathematical principles behind deep learning algorithmsImplement popular deep learning algorithms such as CNNs RNNs and more using TensorFlowBook Description Deep learning is one of the most popular domains in the AI space allowing you to develop multi layered models of varying complexities This book introduces you to popular deep learning algorithms from basic to advanced and shows you how to implement them from scratch using TensorFlow Throughout the book you will gain insights into each algorithm the mathematical principles behind it and how to implement it in the best possible manner The book starts by explaining how you can build your own neural networks followed by introducing you to TensorFlow the powerful Python based library for machine learning and deep learning Moving on you will get up to speed with gradient descent variants such as NAG AMSGrad AdaDelta Adam and Nadam The book will then provide you with insights into RNNs and LSTM and how to generate song lyrics with RNN Next you will master the math for convolutional and capsule networks widely used for image recognition tasks Then you learn how machines understand the semantics of words and documents using CBOW skip gram and PV DM Afterward you will explore various GANs including InfoGAN and LSGAN and autoencoders such as contractive autoencoders and VAE By the end of this book you will be equipped with all the skills you need to implement deep learning in your own projects What you will learnImplement basic to advanced deep learning algorithmsMaster the mathematics behind deep learning algorithmsBecome familiar with gradient descent and its variants such as AMSGrad AdaDelta Adam and NadamImplement recurrent networks such as RNN LSTM GRU and seq2seq modelsUnderstand how machines interpret images using CNN and capsule networksImplement different types of generative adversarial network such as CGAN CycleGAN and StackGANExplore various types of autoencoder such as Sparse autoencoders DAE CAE and VAEWho this book is for If you are a machine learning engineer data scientist AI developer or simply want to focus on neural networks and deep learning this book is for you Those who are completely new to deep learning but have some experience in machine learning and Python programming will also find the book very helpful **Python Deep Learning: Develop Your First Neural Network in Python Using Tensorflow, Keras, and Pytorch** Samuel Burns,2019-04-03 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

Machine Learning Concepts with Python and the Jupyter Notebook Environment Nikita Silaparasetty,2020-10-06 Create execute modify and share machine learning applications with Python and TensorFlow 2 0 in the Jupyter Notebook environment This book breaks down any barriers to programming machine learning applications through the use of Jupyter Notebook instead of a text editor or a regular IDE You ll start by learning how to use Jupyter Notebooks to improve the way you program with Python After getting a good grounding in working with Python in Jupyter Notebooks you ll dive into what TensorFlow is how it helps machine learning enthusiasts and how to tackle the challenges it presents Along the way sample programs created using Jupyter Notebooks allow you to apply concepts from earlier in the book Those who are new to machine learning can dive in with these easy programs and develop basic skills A glossary at the end of the book provides common machine learning and Python keywords and definitions to make learning even easier What You Will Learn Program in Python and TensorFlow Tackle basic machine learning obstacles Develop in the Jupyter Notebooks environment Who This

Book Is For Ideal for Machine Learning and Deep Learning enthusiasts who are interested in programming with Python using Tensorflow 2 0 in the Jupyter Notebook Application Some basic knowledge of Machine Learning concepts and Python Programming using Python version 3 is helpful

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