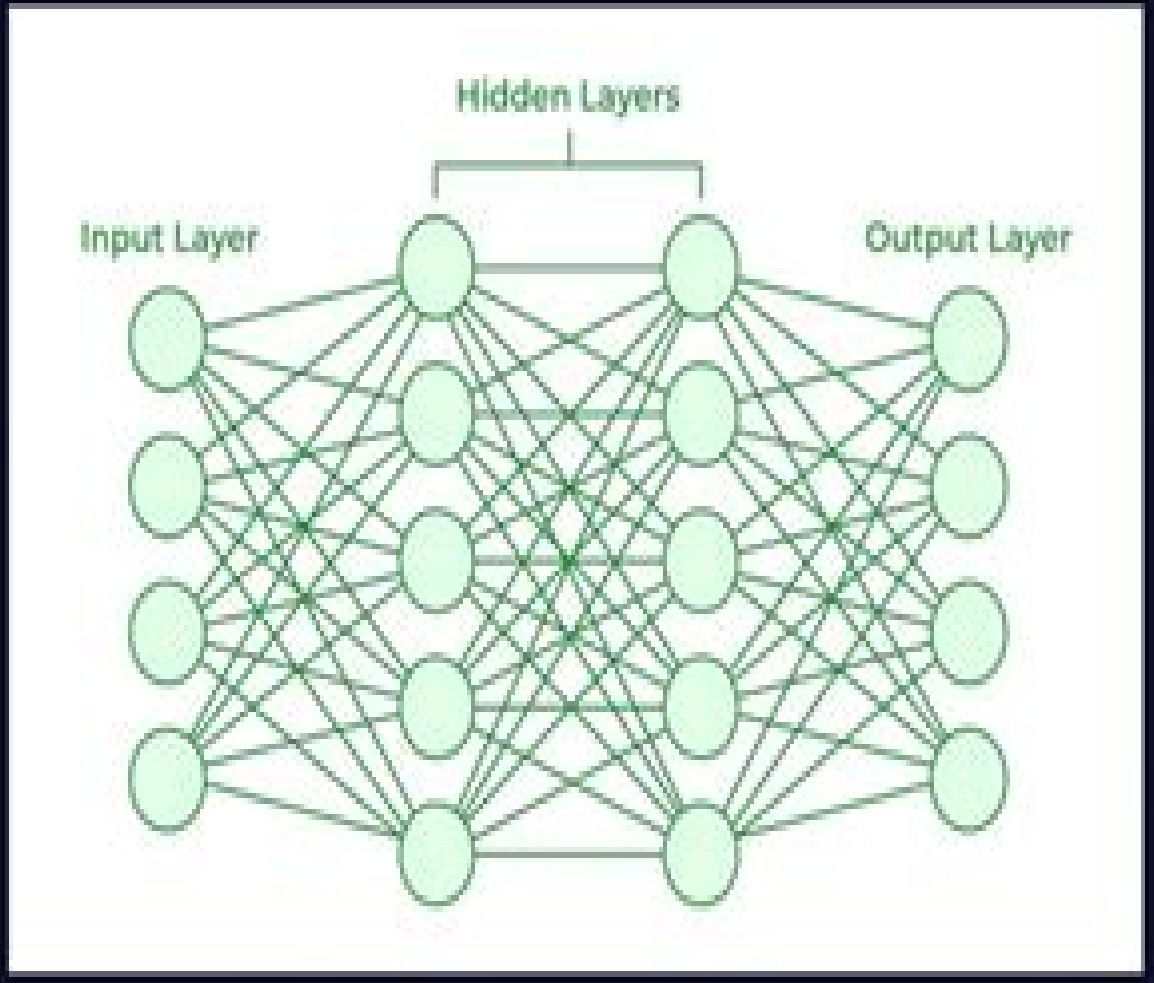
DEEP LEARNING MODELS



Deep Learning Basics Github Pages

Hobson Lane,Maria Dyshel

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Easy Python Learning Using AI - From Fundamentals to Deep Learning Honghyun, JUNG,2026-01-12 This book is designed for beginners students non technical learners and aspiring developers who want to learn Python without feeling overwhelmed Starting from the very basics such as variables data types loops and functions you will gradually build a strong programming foundation Each concept is explained clearly with easy to follow examples ensuring that even complex ideas become accessible As your skills grow the book smoothly introduces artificial intelligence machine learning and data science using Python s powerful ecosystem You will learn how to work with real data using NumPy and Pandas visualize insights with Matplotlib and Seaborn and build intelligent systems using popular AI libraries such as TensorFlow and Keras What makes this book unique is its hands on project based approach You won t just read about AI you will build it From spam email detectors and chatbots to image classifiers and deep learning models each project helps reinforce your understanding and boosts your confidence In addition this book emphasizes responsible AI development covering essential topics like AI ethics bias and real world impact By the end you will have a strong portfolio of Python and AI projects and the skills needed to continue learning innovating and creating Whether you re learning for school career growth or personal interest this book is your friendly and practical companion on the journey from Python basics to deep learning **Machine Learning Fundamentals** Hui Jiang,2021-11-25 This lucid accessible introduction to supervised machine learning presents core concepts in a focused and logical way that is easy for beginners to follow The author assumes basic calculus linear algebra probability and statistics but no prior exposure to machine learning Coverage includes widely used traditional methods such as SVMs boosted trees HMMs and LDAs plus popular deep learning methods such as convolution neural nets attention transformers and GANs Organized in a coherent presentation framework that emphasizes the big picture the text introduces each method clearly and concisely from scratch based on the fundamentals All methods and algorithms are described by a clean and consistent style with a minimum of unnecessary detail Numerous case studies and concrete examples demonstrate how the methods can be applied in a variety of contexts *Futuristic Communication and Network Technologies* A. Sivasubramanian,Prasad N. Shastry,Pua Chang Hong,2021-10-11 This book presents select proceedings of the International Conference on Futuristic Communication and Network Technologies CFCNT 2020 conducted at Vellore Institute of Technology Chennai It covers various domains in communication engineering and networking technologies This volume comprises of recent research in areas like optical communication optical networks optics and optical computing emerging trends in photonics MEMS and sensors active and passive RF components and devices antenna systems and applications RF devices and antennas for microwave emerging technologies wireless communication for future networks signal and image processing machine learning AI for networks internet of intelligent things network security and blockchain technologies This book will be useful for researchers professionals and engineers working in the core areas of electronics and communication

Social Data Analytics in the Cloud with AI Xuebin Wei,Xinyue Ye,2024-12-30 The rise of cloud computing and Generative artificial intelligence AI has revolutionized data analytics pipelines Analysts can collect store and process vast datasets in the cloud with high availability and scalability and also leverage Generative AI to query and visualize datasets in natural languages This pioneering textbook provides a gateway for students educators and professionals to develop and enhance social data analytics capabilities with the latest cloud computing and AI technologies The textbook introduces educational cloud resources from leading technology companies begins with foundational concepts and progresses to advanced techniques Features The first textbook on cloud based social data analytics with the assistance of Generative AI Introduces educational cloud resources from leading technology companies like AWS GitHub and MongoDB Presents a fully AI powered data analytics pipeline from Python coding to data collection with APIs cloud based data storage natural language queries and interactive visualization Analyzes Census and social media data with the latest large language models LLMs Provides hands on exercises with real world datasets on timely issues This textbook is an excellent resource for upper level undergraduate and graduate students taking GIS Urban Informatics Social Science Data Analysis and Data Science courses faculty members teaching such courses and professionals and researchers interested in leveraging cloud computing and Generative AI in social data analytics Applied Mathematics and Computational Mechanics for Smart Applications Lakhmi C. Jain,Margarita N. Favorskaya,Ilia S. Nikitin,Dmitry L. Reviznikov,2021-03-14 This book presents best selected research papers presented at the Thirteenth International Conference on Applied Mathematics and Mechanics in the Aerospace Industry AMMAI 2020 held from September 6 to September 13 2020 at the Alushta Health and Educational Center The Republic of Crimea The book is dedicated to solving actual problems of applied mechanics using modern computer technology including smart paradigms Physical and mathematical models numerical methods computational algorithms and software complexes are discussed which allow to carry out high precision mathematical modeling in fluid gas and plasma mechanics in general mechanics deformable solid mechanics in strength destruction and safety of structures etc Technologies and software systems that provide effective solutions to the problems at various multi scale levels are considered Special attention is paid to the training of highly qualified specialists for the aviation and space industry The book is recommended for specialists in the field of applied mathematics and mechanics mathematical modeling information technologies and developers of modern applied software systems **Python Natural Language Processing** Jalaj Thanaki,2017-07-31 Leverage the power of machine learning and deep learning to extract information from text data About This Book Implement Machine Learning and Deep Learning techniques for efficient natural language processing Get started with NLTK and implement NLP in your applications with ease Understand and interpret human languages with the power of text analysis via Python Who This Book Is For This book is intended for Python developers who wish to start with natural language processing and want to make their applications smarter by implementing NLP in them What You Will Learn Focus

on Python programming paradigms which are used to develop NLP applications Understand corpus analysis and different types of data attribute Learn NLP using Python libraries such as NLTK Polyglot SpaCy Standford CoreNLP and so on Learn about Features Extraction and Feature selection as part of Features Engineering Explore the advantages of vectorization in Deep Learning Get a better understanding of the architecture of a rule based system Optimize and fine tune Supervised and Unsupervised Machine Learning algorithms for NLP problems Identify Deep Learning techniques for Natural Language Processing and Natural Language Generation problems In Detail This book starts off by laying the foundation for Natural Language Processing and why Python is one of the best options to build an NLP based expert system with advantages such as Community support availability of frameworks and so on Later it gives you a better understanding of available free forms of corpus and different types of dataset After this you will know how to choose a dataset for natural language processing applications and find the right NLP techniques to process sentences in datasets and understand their structure You will also learn how to tokenize different parts of sentences and ways to analyze them During the course of the book you will explore the semantic as well as syntactic analysis of text You will understand how to solve various ambiguities in processing human language and will come across various scenarios while performing text analysis You will learn the very basics of getting the environment ready for natural language processing move on to the initial setup and then quickly understand sentences and language parts You will learn the power of Machine Learning and Deep Learning to extract information from text data By the end of the book you will have a clear understanding of natural language processing and will have worked on multiple examples that implement NLP in the real world Style and approach This book teaches the readers various aspects of natural language Processing using NLTK It takes the reader from the basic to advance level in a smooth way **Disinformation, Misinformation, and Fake News in Social Media** Kai Shu,Suhang Wang,Dongwon Lee,Huan Liu,2020-06-17 This book serves as a convenient entry point for researchers practitioners and students to understand the problems and challenges learn state of the art solutions for their specific needs and quickly identify new research problems in their domains The contributors to this volume describe the recent advancements in three related parts 1 user engagements in the dissemination of information disorder 2 techniques on detecting and mitigating disinformation and 3 trending issues such as ethics blockchain clickbaits etc This edited volume will appeal to students researchers and professionals working on disinformation misinformation and fake news in social media from a unique lens 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 Natural Language Processing in Action, Second Edition Hobson Lane,Maria Dyshel,2025-02-25 Develop your NLP skills from scratch with an open source toolbox of Python packages Transformers Hugging Face vector databases and your own Large Language Models Natural Language Processing in Action Second Edition has helped thousands of data scientists build machines that understand human language In this new and revised edition you ll discover state of the art Natural Language Processing NLP models like BERT and HuggingFace transformers popular open source frameworks for chatbots and more You ll create NLP tools that can detect fake news filter spam deliver exceptional search results and even build truthfulness and reasoning into Large Language Models LLMs In Natural Language Processing in Action Second Edition you will learn how to Process analyze understand and generate natural language text Build production quality NLP pipelines with spaCy Build neural networks for NLP using Pytorch BERT and GPT transformers for English composition writing code and even organizing your thoughts Create chatbots and other conversational AI agents In this new and revised edition you ll discover state of the art NLP models like BERT and HuggingFace transformers popular open source frameworks for chatbots and more Plus you ll discover vital skills and techniques for optimizing LLMs including conversational design and automating the trial and error of LLM interactions for effective and accurate results About the technology From nearly human chatbots to ultra personalized business reports to AI generated email news stories and novels natural language processing NLP has never been more powerful Groundbreaking advances in deep learning have made high quality open source models and powerful NLP tools like spaCy and PyTorch widely available and ready for production applications This book is your entrance ticket and backstage pass into the next generation of natural language processing About the book Natural Language Processing in Action Second Edition introduces the foundational technologies and state of the art tools you ll need to write and publish NLP applications You learn how to create custom models for search translation writing assistants and more without relying on big commercial foundation models This fully updated second edition includes coverage of BERT Hugging Face transformers fine tuning large language models and more What s inside NLP pipelines with spaCy Neural networks with PyTorch BERT and GPT transformers Conversational design for chatbots About the reader For intermediate Python programmers familiar with deep learning basics About the author Hobson Lane is a data scientist and machine learning engineer with over twenty years of experience building autonomous systems and NLP pipelines Maria Dyshel is a social entrepreneur and artificial intelligence expert and the CEO and cofounder of Tangible AI Cole Howard and Hannes Max Hapke were co authors of the first edition Deep Learning Projects Using TensorFlow 2 Vinita

Silaparasetty,2020-08-08 Work through engaging and practical deep learning projects using TensorFlow 2 0 Using a hands on approach the projects in this book will lead new programmers through the basics into developing practical deep learning applications Deep learning is quickly integrating itself into the technology landscape Its applications range from applicable data science to deep fakes and so much more It is crucial for aspiring data scientists or those who want to enter the field of AI to understand deep learning concepts The best way to learn is by doing You ll develop a working knowledge of not only TensorFlow but also related technologies such as Python and Keras You ll also work with Neural Networks and other deep learning concepts By the end of the book you ll have a collection of unique projects that you can add to your GitHub profiles and expand on for professional application What You ll Learn Grasp the basic process of neural networks through projects such as creating music Restore and colorize black and white images with deep learning processes Who This Book Is For Beginners new to TensorFlow and Python Hands-On Computer Vision with TensorFlow 2 Benjamin Planche,Eliot Andres,2019-05-30 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 **Neural Networks with Keras Cookbook** V Kishore Ayyadevara,2019-02-28 Implement neural network architectures by building them from scratch for multiple real world applications Key FeaturesFrom scratch build multiple neural network architectures such as CNN RNN LSTM in KerasDiscover tips and tricks for designing a robust neural network to solve real world problemsGraduate from understanding the working details of neural networks and master the art of fine tuning themBook Description This book will take you from the basics of neural networks to advanced implementations of architectures using a recipe based approach We will learn about how neural networks work and the impact of various hyper parameters on a network s accuracy along with leveraging neural networks for structured and unstructured data Later we will learn how to classify and detect objects in images We will also learn to use transfer learning for multiple applications including a self driving car using Convolutional Neural Networks We will generate images while leveraging GANs and also by performing image encoding Additionally we will perform text analysis using word vector based techniques Later we will use Recurrent Neural Networks and LSTM to implement chatbot and Machine Translation systems Finally you will learn about transcribing images audio and generating captions and also use Deep Q learning to build an agent that plays Space Invaders game By the end of this book you will have developed the skills to choose and customize multiple neural network architectures for various deep learning problems you might encounter What you will learnBuild multiple advanced neural network architectures from scratchExplore transfer learning to perform object detection and classificationBuild self driving car applications using instance and semantic segmentationUnderstand data encoding for image text and recommender systemsImplement text analysis using sequence to sequence learningLeverage a combination of CNN and RNN to perform end to end learningBuild agents to play games using deep Q learningWho this book is for This intermediate level book targets beginners and intermediate level machine learning practitioners and data scientists who have just started their journey with neural networks This book is for those who are looking for resources to help them navigate through the various neural network architectures you ll build multiple architectures with concomitant case studies ordered by the complexity of the problem A basic understanding of Python programming and a familiarity with basic machine learning are all you need to get started with this book **Deep Learning for Natural Language Processing** Palash Goyal,Sumit Pandey,Karan Jain,2018-06-26 Discover the concepts of deep learning used for natural language processing NLP with full fledged examples of neural network models such as recurrent neural networks long short term memory networks and sequence 2 sequence models You ll start by covering the

mathematical prerequisites and the fundamentals of deep learning and NLP with practical examples The first three chapters of the book cover the basics of NLP starting with word vector representation before moving onto advanced algorithms The final chapters focus entirely on implementation and deal with sophisticated architectures such as RNN LSTM and Seq2seq using Python tools TensorFlow and Keras Deep Learning for Natural Language Processing follows a progressive approach and combines all the knowledge you have gained to build a question answer chatbot system This book is a good starting point for people who want to get started in deep learning for NLP All the code presented in the book will be available in the form of IPython notebooks and scripts which allow you to try out the examples and extend them in interesting ways What You Will Learn Gain the fundamentals of deep learning and its mathematical prerequisites Discover deep learning frameworks in Python Develop a chatbot Implement a research paper on sentiment classification Who This Book Is For Software developers who are curious to try out deep learning with NLP Learn Keras for Deep Neural Networks Jojo Moolayil,2018-12-07 Learn understand and implement deep neural networks in a math and programming friendly approach using Keras and Python The book focuses on an end to end approach to developing supervised learning algorithms in regression and classification with practical business centric use cases implemented in Keras The overall book comprises three sections with two chapters in each section The first section prepares you with all the necessary basics to get started in deep learning Chapter 1 introduces you to the world of deep learning and its difference from machine learning the choices of frameworks for deep learning and the Keras ecosystem You will cover a real life business problem that can be solved by supervised learning algorithms with deep neural networks You ll tackle one use case for regression and another for classification leveraging popular Kaggle datasets Later you will see an interesting and challenging part of deep learning hyperparameter tuning helping you further improve your models when building robust deep learning applications Finally you ll further hone your skills in deep learning and cover areas of active development and research in deep learning At the end of Learn Keras for Deep Neural Networks you will have a thorough understanding of deep learning principles and have practical hands on experience in developing enterprise grade deep learning solutions in Keras What You ll Learn Master fast paced practical deep learning concepts with math and programming friendly abstractions Design develop train validate and deploy deep neural networks using the Keras framework Use best practices for debugging and validating deep learning models Deploy and integrate deep learning as a service into a larger software service or product Extend deep learning principles into other popular frameworks Who This Book Is For Software engineers and data engineers with basic programming skills in any language and who are keen on exploring deep learning for a career move or an enterprise project Hands-On Deep Learning for Images with TensorFlow Will Ballard,2018-07-31 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 **Deep Learning and Neural Networks Using Python - Keras** Abhilash Nelson,2019 Deep learning and data science using a Python and Keras library A complete guide to take you from a beginner to professional About This Video Learn data science using a Python and Keras library Learn convolutional neural networks using Python In Detail The world has been obsessed with the terms machine learning and deep learning recently We use these technologies every day with or without our knowledge through Google suggestions translations ads movie recommendations friend suggestions and sales and customer experiences There are tons of other applications too No wonder that deep learning and machine learning specialists along with data science practitioners are the most sought after talent in the technology world However it s a common misconception that you need to study lots of mathematics statistics and complex algorithms for learning these technologies It s like believing that you must learn the working of a combustion engine before you learn how to drive a car A basic know how of the internal working of the engine is of course an added advantage but it s not mandatory Similarly this course is a perfect balance between learning the basic deep learning concepts and implementing the built in deep learning classes and functions from the Keras library using the Python programming language These classes functions and APIs are just like the control pedals of a car engine which you can use to build an efficient deep learning model This is a basic to advanced crash course in deep learning neural networks and convolutional neural networks using Keras and Python It ll help you skill up to meet the demand of the tech world and skyrocket your career prospects Downloading the example code for this course You can download the example code files for this course on GitHub at the following link https github com PacktPublishing Deep Learning and Neural Networks using Python Keras The Complete Beginners Guide If you require support please email customercare packt com **Deep**

Learning with Python Nikhil Ketkar,Jojo Moolayil,2021-04-10 Master the practical aspects of implementing deep learning solutions with PyTorch using a hands on approach to understanding both theory and practice This updated edition will prepare you for applying deep learning to real world problems with a sound theoretical foundation and practical know how with PyTorch a platform developed by Facebook s Artificial Intelligence Research Group You ll start with a perspective on how and why deep learning with PyTorch has emerged as an path breaking framework with a set of tools and techniques to solve real world problems Next the book will ground you with the mathematical fundamentals of linear algebra vector calculus probability and optimization Having established this foundation you ll move on to key components and functionality of PyTorch including layers loss functions and optimization algorithms You ll also gain an understanding of Graphical Processing Unit GPU based computation which is essential for training deep learning models All the key architectures in deep learning are covered including feedforward networks convolution neural networks recurrent neural networks long short term memory networks autoencoders and generative adversarial networks Backed by a number of tricks of the trade for training and optimizing deep learning models this edition of Deep Learning with Python explains the best practices in taking these models to production with PyTorch What You ll Learn Review machine learning fundamentals such as overfitting underfitting and regularization Understand deep learning fundamentals such as feed forward networks convolution neural networks recurrent neural networks automatic differentiation and stochastic gradient descent Apply in depth linear algebra with PyTorch Explore PyTorch fundamentals and its building blocks Work with tuning and optimizing models Who This Book Is For Beginners with a working knowledge of Python who want to understand Deep Learning in a practical hands on manner

Deep Learning Pipeline Hisham El-Amir,Mahmoud Hamdy,2019-12-20 Build your own pipeline based on modern TensorFlow approaches rather than outdated engineering concepts This book shows you how to build a deep learning pipeline for real life TensorFlow projects You ll learn what a pipeline is and how it works so you can build a full application easily and rapidly Then troubleshoot and overcome basic Tensorflow obstacles to easily create functional apps and deploy well trained models Step by step and example oriented instructions help you understand each step of the deep learning pipeline while you apply the most straightforward and effective tools to demonstrative problems and datasets You ll also develop a deep learning project by preparing data choosing the model that fits that data and debugging your model to get the best fit to data all using Tensorflow techniques Enhance your skills by accessing some of the most powerful recent trends in data science If you ve ever considered building your own image or text tagging solution or entering a Kaggle contest Deep Learning Pipeline is for you What You ll Learn Develop a deep learning project using data Study and apply various models to your data Debug and troubleshoot the proper model suited for your data Who This Book Is For Developers analysts and data scientists looking to add to or enhance their existing skills by accessing some of the most powerful recent trends in data science Prior experience in Python or other TensorFlow related languages and mathematics would be helpful Beginning

with Deep Learning Using TensorFlow Mohan Kumar Silaparasetty,2022-02-09 A Practicing Guide to TensorFlow and Deep Learning KEY FEATURES Equipped with a necessary introduction to Deep Learning and AI Includes demos and templates to give your projects a good start Find more on the most important facets of AI image and speech recognition DESCRIPTION This book begins with the configuration of an Anaconda development environment essential for practicing the deep learning process The basics of machine learning which are needed for Deep Learning are explained in this book TensorFlow is the industry standard library for Deep Learning and thereby it is covered extensively with both versions 1 x and 2 x As neural networks are the heart of Deep Learning the book explains them in great detail and systematic fashion beginning with a single neuron and progressing through deep multilayer neural networks The emphasis of this book is on the practical application of key concepts rather than going in depth with them After establishing a firm basis in TensorFlow and Neural Networks the book explains the concepts of image recognition using Convolutional Neural Networks CNN followed by speech recognition and natural language processing NLP Additionally this book discusses Transformers the most recent advancement in NLP WHAT YOU WILL LEARN Create machine learning models for classification and regression Utilize TensorFlow 1 x to implement neural networks Work with the Keras API and TensorFlow 2 Learn to design and train image categorization models Construct translation and Q A apps using transformer based language models WHO THIS BOOK IS FOR This book is intended for those new to Deep Learning who want to learn about its principles and applications Before you begin you ll need to be familiar with Python TABLE OF CONTENTS 1 Introduction to Artificial Intelligence 2 Machine Learning 3 TensorFlow Programming 4 Neural Networks 5 TensorFlow 2 6 Image Recognition 7 Speech Recognition

Deep Learning Essentials Anurag Bhardwaj,Wei Di,Jianing Wei,2018-01-30 Get to grips with the essentials of deep learning by leveraging the power of Python Key Features Your one stop solution to get started with the essentials of deep learning and neural network modeling Train different kinds of neural networks to tackle various problems in Natural Language Processing computer vision speech recognition and more Covers popular Python libraries such as Tensorflow Keras and more along with tips on training deploying and optimizing your deep learning models in the best possible manner Book Description Deep Learning a trending topic in the field of Artificial Intelligence today and can be considered to be an advanced form of machine learning which is quite tricky to master This book will help you take your first steps in training efficient deep learning models and applying them in various practical scenarios You will model train and deploy different kinds of neural networks such as Convolutional Neural Network Recurrent Neural Network and will see some of their applications in real world domains including computer vision natural language processing speech recognition and so on You will build practical projects such as chatbots implement reinforcement learning to build smart games and develop expert systems for image captioning and processing Popular Python library such as TensorFlow is used in this book to build the models This book also covers solutions for different problems you might come across while training models such as noisy

datasets small datasets and more This book does not assume any prior knowledge of deep learning By the end of this book you will have a firm understanding of the basics of deep learning and neural network modeling along with their practical applications What you will learn Get to grips with the core concepts of deep learning and neural networks Set up deep learning library such as TensorFlow Fine tune your deep learning models for NLP and Computer Vision applications Unify different information sources such as images text and speech through deep learning Optimize and fine tune your deep learning models for better performance Train a deep reinforcement learning model that plays a game better than humans Learn how to make your models get the best out of your GPU or CPU Who this book is for Aspiring data scientists and machine learning experts who have limited or no exposure to deep learning will find this book to be very useful If you are looking for a resource that gets you up and running with the fundamentals of deep learning and neural networks this book is for you As the models in the book are trained using the popular Python based libraries such as Tensorflow and Keras it would be useful to have sound programming knowledge of Python

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Deep Learning Basics Github Pages Introduction

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