PYTHON PROJECT IDEAS
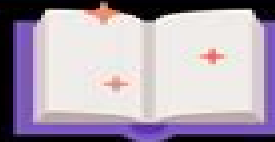
STARTER

NUMBER GUESSING SNAKE GAME STORY GENERATOR STOPWATCH

INTERMEDIATE

TYPING SPEED APP EMAIL AUTOMATION PAINT APP WHATSAPP AUTOMATION

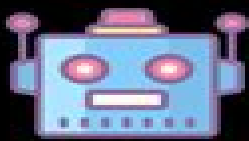## ADVANCED

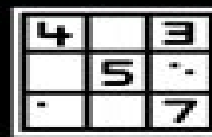CHAT APP FACE DETECTION YOUTUBE CLONE DATA DASHBOARD

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Python Ai Projects For Beginners

Angel Sola Orbaiceta

Python Ai Projects For Beginners

Python Artificial Intelligence Projects for Beginners Dr. Joshua Eckroth,2018-07-31 Build smart applications by implementing real world artificial intelligence projects Key Features Explore a variety of AI projects with Python Get well versed with different types of neural networks and popular deep learning algorithms Leverage popular Python deep learning libraries for your AI projects Book Description Artificial Intelligence AI is the newest technology that s being employed among varied businesses industries and sectors Python Artificial Intelligence Projects for Beginners demonstrates AI projects in Python covering modern techniques that make up the world of Artificial Intelligence This book begins with helping you to build your first prediction model using the popular Python library scikit learn You will understand how to build a classifier using an effective machine learning technique random forest and decision trees With exciting projects on predicting bird species analyzing student performance data song genre identification and spam detection you will learn the fundamentals and various algorithms and techniques that foster the development of these smart applications In the concluding chapters you will also understand deep learning and neural network mechanisms through these projects with the help of the Keras library By the end of this book you will be confident in building your own AI projects with Python and be ready to take on more advanced projects as you progress What you will learn Build a prediction model using decision trees and random forest Use neural networks decision trees and random forests for classification Detect YouTube comment spam with a bag of words and random forests Identify handwritten mathematical symbols with convolutional neural networks Revise the bird species identifier to use images Learn to detect positive and negative sentiment in user reviews Who this book is for Python Artificial Intelligence Projects for Beginners is for Python developers who want to take their first step into the world of Artificial Intelligence using easy to follow projects Basic working knowledge of Python programming is expected so that you re able to play around with code

Artificial Intelligence with Python Prateek Joshi,2017-01-27 Build real world Artificial Intelligence applications with Python to intelligently interact with the world around you About This Book Step into the amazing world of intelligent apps using this comprehensive guide Enter the world of Artificial Intelligence explore it and create your own applications Work through simple yet insightful examples that will get you up and running with Artificial Intelligence in no time Who This Book Is For This book is for Python developers who want to build real world Artificial Intelligence applications This book is friendly to Python beginners but being familiar with Python would be useful to play around with the code It will also be useful for experienced Python programmers who are looking to use Artificial Intelligence techniques in their existing technology stacks What You Will Learn Realize different classification and regression techniques Understand the concept of clustering and how to use it to automatically segment data See how to build an intelligent recommender system Understand logic programming and how to use it Build automatic speech recognition systems Understand the basics of heuristic search and genetic programming Develop games using Artificial Intelligence Learn how reinforcement learning works Discover how to build intelligent applications centered on images text and time series data See how to use deep learning algorithms and build applications based on it In Detail Artificial Intelligence is becoming increasingly relevant in the modern world where everything is driven by technology and data It is used extensively across many fields such as search engines image recognition robotics finance and so on We will explore various real world scenarios in this book and you ll learn about various algorithms that can be used to build Artificial Intelligence applications During the course of this book you will find out how to make informed decisions about what algorithms to use in a given context Starting from the basics of Artificial Intelligence you will learn how to develop various building blocks using different data mining techniques You will see how to implement different algorithms to get the best possible results and will understand how to apply them to real world scenarios If you want to add an intelligence layer to any application that s based on images text stock market or some other form of data this exciting book on Artificial Intelligence will definitely be your guide Style and approach This highly practical book will show you how to implement Artificial Intelligence The book provides multiple examples enabling you to create smart applications to meet the needs of your organization In every chapter we explain an algorithm implement it and then build a smart application

Practical Python AI Projects Serge Kruk,2018-02-26 Discover the art and science of solving artificial intelligence problems with Python using optimization modeling This book covers the practical creation and analysis of mathematical algebraic models such as linear continuous models non obviously linear continuous models and pure linear integer models Rather than focus on theory Practical Python AI Projects the product of the author s decades of industry teaching and consulting stresses the model creation aspect contrasting alternate approaches and practical variations Each model is explained thoroughly and written to be executed The source code from all examples in the book is available written in Python using Google OR Tools It also includes a random problem generator useful for industry application or study What You Will Learn Build basic Python based artificial intelligence AI applications Work with mathematical optimization methods and the Google OR Tools Optimization Tools suite Create several types of projects using Python and Google OR Tools Who This Book Is For Developers and students who already have prior experience in Python coding Some prior mathematical experience or comfort level may be helpful as well

Artificial Intelligence with Python Alberto Artasanchez,Prateek Joshi,2020-01-31 New edition of the bestselling guide to artificial intelligence with Python updated to Python 3 x with seven new chapters that cover RNNs AI and Big Data fundamental use cases chatbots and more Key FeaturesCompletely updated and revised to Python 3 xNew chapters for AI on the cloud recurrent neural networks deep learning models and feature selection and engineeringLearn more about deep learning algorithms machine learning data pipelines and chatbotsBook Description Artificial Intelligence with Python Second Edition is an updated and expanded version of the bestselling guide to artificial intelligence using the latest version of Python 3 x Not only does it provide you an introduction to artificial intelligence this new edition goes further by giving you the tools you need to explore the amazing world of intelligent apps and create your own applications This edition also includes seven new chapters on more advanced concepts of Artificial Intelligence including fundamental use cases of AI machine learning data pipelines feature selection and feature engineering AI on the cloud the basics of chatbots RNNs and DL models and AI and Big Data Finally this new edition explores various real world scenarios and teaches you how to apply relevant AI algorithms to a wide swath of problems starting with the most basic AI concepts and progressively building from there to solve more difficult challenges so that by the end you will have gained a solid understanding of and when best to use these many artificial intelligence techniques What you will learnUnderstand what artificial intelligence machine learning and data science areExplore the most common artificial intelligence use casesLearn how to build a machine learning pipelineAssimilate the basics of feature selection and feature engineeringIdentify the differences between supervised and unsupervised learningDiscover the most recent advances and tools offered for AI development in the cloudDevelop automatic speech recognition systems and chatbotsApply AI algorithms to time series dataWho this book is for The intended audience for this book is Python developers who want to build real world Artificial Intelligence applications Basic Python programming experience and awareness of machine learning concepts and techniques is mandatory

Intelligent Projects Using Python Santanu Pattanayak,2019-01-31 Implement machine learning and deep learning methodologies to build smart cognitive AI projects using Python Key FeaturesA go to guide to help you master AI algorithms and concepts8 real world projects tackling different challenges in healthcare e commerce and surveillanceUse TensorFlow Keras and other Python libraries to implement smart AI applicationsBook Description This book will be a perfect companion if you want to build insightful projects from leading AI domains using Python The book covers detailed implementation of projects from all the core disciplines of AI We start by covering the basics of how to create smart systems using machine learning and deep learning techniques You will assimilate various neural network architectures such as CNN RNN LSTM to solve critical new world challenges You will learn to train a model to detect diabetic retinopathy conditions in the human eye and create an intelligent system for performing a video to text translation You will use the transfer learning technique in the healthcare domain and implement style transfer using GANs Later you will learn to build AI based recommendation systems a mobile app for sentiment analysis and a powerful chatbot for carrying customer services You will implement AI techniques in the cybersecurity domain to generate Captchas Later you will train and build autonomous vehicles to self drive using reinforcement learning You will be using libraries from the Python ecosystem such as TensorFlow Keras and more to bring the core aspects of machine learning deep learning and AI By the end of this book you will be skilled to build your own smart models for tackling any kind of AI problems without any hassle What you will learnBuild an intelligent machine translation system using seq 2 seq neural translation machinesCreate AI applications using GAN and deploy smart mobile apps using TensorFlowTranslate videos into text using CNN and RNNImplement smart AI Chatbots and integrate and extend them in several domainsCreate smart reinforcement learning based applications using Q LearningBreak and generate CAPTCHA using Deep Learning and Adversarial Learning Who this book is for This book is intended for data scientists machine learning professionals and deep learning practitioners who are ready to extend their knowledge and potential in AI If you want to build real life smart systems to play a crucial role in every complex domain then this book is what you need Knowledge of Python programming and a familiarity with basic machine learning and deep learning concepts are expected to help you get the most out of the book

The Big Book of Small Python Projects Al Sweigart,2021-06-25 Best selling author Al Sweigart shows you how to easily build over 80 fun programs with minimal code and maximum creativity If you ve mastered basic Python syntax and you re ready to start writing programs you ll find The Big Book of Small Python Projects both enlightening and fun This collection of 81 Python projects will have you making digital art games animations counting pro grams and more right away Once you see how the code works you ll practice re creating the programs and experiment by adding your own custom touches These simple text based programs are 256 lines of code or less And whether it s a vintage screensaver a snail racing game a clickbait headline generator or animated strands of DNA each project is designed to be self contained so you can easily share it online You ll create Hangman Blackjack and other games to play against your friends or the computer Simulations of a forest fire a million dice rolls and a Japanese abacus Animations like a virtual fish tank a rotating cube and a bouncing DVD logo screensaver A first person 3D maze game Encryption programs that use ciphers like ROT13 and Vigen re to conceal text If you re tired of standard step by step tutorials you ll love the learn by doing approach of The Big Book of Small Python Projects It s proof that good things come in small programs

Python Projects for Beginners Connor P. Milliken,2019-11-15 Immerse yourself in learning Python and introductory data analytics with this book s project based approach Through the structure of a ten week coding bootcamp course you ll learn key concepts and gain hands on experience through weekly projects Each chapter in this book is presented as a full week of topics with Monday through Thursday covering specific concepts leading up to Friday when you are challenged to create a project using the skills learned throughout the week Topics include Python basics and essential intermediate concepts such as list comprehension generators and iterators understanding algorithmic complexity and data analysis with pandas From beginning to end this book builds up your abilities through exercises and challenges culminating in your solid understanding of Python Challenge yourself with the intensity of a coding bootcamp experience or learn at your own pace With this hands on learning approach you will gain the skills you need to jumpstart a new career in programming or further your current one as a software developer What You Will Learn Understand beginning and more advanced concepts of the Python languageBe introduced to data analysis using pandas the Python Data Analysis libraryWalk through the process of interviewing and answering technical questionsCreate real world applications with the Python languageLearn how to use Anaconda Jupyter Notebooks and the Python Shell Who This Book Is For Those trying to jumpstart a new career into programming and those already in the software development industry and would like to learn Python programming

Deep Learning for Coders with fastai and PyTorch Jeremy Howard,Sylvain Gugger,2020-06-29 Deep learning is often viewed as the exclusive domain of math PhDs and big tech companies But as this hands on guide demonstrates programmers comfortable with Python can achieve impressive results in deep learning with little math background small amounts of data and minimal code How With fastai the first library to provide a consistent interface to the most frequently used deep learning applications Authors Jeremy Howard and Sylvain Gugger the creators of fastai show you how to train a model on a wide range of tasks using fastai and PyTorch You ll also dive progressively further into deep learning theory to gain a complete understanding of the algorithms behind the scenes Train models in computer vision natural language processing tabular data and collaborative filtering Learn the latest deep learning techniques that matter most in practice Improve accuracy speed and reliability by understanding how deep learning models work Discover how to turn your models into web applications Implement deep learning algorithms from scratch Consider the ethical implications of your work Gain insight from the foreword by PyTorch cofounder Soumith Chintala

Machine Learning for Kids Dale Lane,2021-01-19 A hands on application based introduction to machine learning and artificial intelligence AI that guides young readers through creating compelling AI powered games and applications using the Scratch programming language Machine learning also known as ML is one of the building blocks of AI or artificial intelligence AI is based on the idea that computers can learn on their own with your help Machine Learning for Kids will introduce you to machine learning painlessly With this book and its free Scratch based award winning companion website you ll see how easy it is to add machine learning to your own projects You don t even need to know how to code As you work through the book you ll discover how machine learning systems can be taught to recognize text images numbers and sounds and how to train your models to improve their accuracy You ll turn your models into fun computer games and apps and see what happens when they get confused by bad data You ll build 13 projects step by step from the ground up including Rock Paper Scissors game that recognizes your hand shapes An app that recommends movies based on other movies that you like A computer character that reacts to insults and compliments An interactive virtual assistant like Siri or Alexa that obeys commands An AI version of Pac Man with a smart character that knows how to avoid ghosts NOTE This book includes a Scratch tutorial for beginners and step by step instructions for every project Ages 12

Hardcore Programming for Mechanical Engineers Angel Sola Orbaiceta,2021-06-22 Hardcore Programming for Mechanical Engineers is for intermediate programmers who want to write good applications that solve tough engineering problems from scratch This book will teach you how to solve engineering problems with Python The hardcore approach means that you will learn to get the correct results by coding everything from scratch Forget relying on third party software there are no shortcuts on the path to proficiency Instead using familiar concepts from linear algebra geometry and physics you ll write your own libraries draw your own primitives and build your own applications Author Angel Sola covers core programming techniques mechanical engineers need to know with a focus on high quality code and automated unit testing for error free implementations After basic primers on Python and using the command line you ll quickly develop a geometry toolbox filling it with lines and shapes for diagramming problems As your understanding grows chapter by chapter you ll create vector graphics and animations for dynamic simulations you ll code algorithms that can do complex numerical computations and you ll put all of this knowledge together to build a complete structural analysis application that solves a 2D truss problem similar to the software projects conducted by real world mechanical engineers You ll learn How to use geometric primitives like points and polygons and implement matrices Best practices for clean code including unit testing encapsulation and expressive names Processes for drawing images to the screen and creating animations inside Tkinter s Canvas widget How to write programs that read from a file parse the data and produce vector images Numerical methods for solving large systems of linear equations like the Cholesky decomposition algorithm

AI With Python For Beginners Jim Smith,2019-07-30 AI With PythonSince the invention of computers or machines their capability to perform various tasks has experienced an exponential growth Humans have developed the power of computer systems in terms of their diverse working domains their increasing speed and reducing size with respect to time A branch of Computer Science named Artificial Intelligence pursues creating the computers or machines as intelligent as human beings Artificial intelligence s progress is staggering Efforts to advance AI concepts over the past 20 years have resulted in some truly amazing innovations Big data medical research and autonomous vehicles are just some of the incredible applications emerging from AI development This book covers the basic concepts of various fields of artificial intelligence like Artificial Neural Networks Natural Language Processing Machine Learning Deep Learning Genetic algorithms etc and its implementation in Python What You Will Learn Introduction Machine Learning Data Preparations Supervised Learning Logic Programming Clustering Natural Language Processing Time Series Data Speech Recognition Heuristic Search Gaming Much Much More

Artificial Intelligence Illuminated Ben Coppin,2004 Artificial Intelligence Illuminated presents an overview of the background and history of artificial intelligence emphasizing its importance in today s society and potential for the future The book covers a range of AI techniques algorithms and methodologies including game playing intelligent agents machine learning genetic algorithms and Artificial Life Material is presented in a lively and accessible manner and the author focuses on explaining how AI techniques relate to and are derived from natural systems such as the human brain and evolution and explaining how the artificial equivalents are used in the real world Each chapter includes student exercises and review questions and a detailed glossary at the end of the book defines important terms and concepts highlighted throughout the text

Artificial Intelligence Programming with Python Perry Xiao,2022-02-21 A hands on roadmap to using Python for artificial intelligence programming In Practical Artificial Intelligence Programming with Python From Zero to Hero veteran educator and photophysicist Dr Perry Xiao delivers a thorough introduction to one of the most exciting areas of computer science in modern history The book demystifies artificial intelligence and teaches readers its fundamentals from scratch in simple and plain language and with illustrative code examples Divided into three parts the author explains artificial intelligence generally machine learning and deep learning It tackles a wide variety of useful topics from classification and regression in machine learning to generative adversarial networks He also includes Fulsome introductions to MATLAB Python AI machine learning and deep learning Expansive discussions on supervised and unsupervised machine learning as well as semi supervised learning Practical AI and Python cheat sheet quick references This hands on AI programming guide is perfect for anyone with a basic knowledge of programming including familiarity with variables arrays loops if else statements and file input and output who seeks to understand foundational concepts in AI and AI development

Impractical Python Projects Lee Vaughan,2018-11-27 Impractical Python Projects is a collection of fun and educational projects designed to entertain programmers while enhancing their Python skills It picks up where the complete beginner books leave off expanding on existing concepts and introducing new tools that you ll use every day And to keep things interesting each project includes a zany twist featuring historical incidents pop culture references and literary allusions You ll flex your problem solving skills and employ Python s many useful libraries to do things like Help James Bond crack a high tech safe with a hill climbing algorithm Write haiku poems using Markov Chain Analysis Use genetic algorithms to breed a race of gigantic rats Crack the world s most successful military cipher using cryptanalysis Derive the anagram I am Lord Voldemort using linguistical sieves Plan your parents secure retirement with Monte Carlo simulation Save the sorceress Zatanna from a stabby death using palingrams Model the Milky Way and calculate our odds of detecting alien civilizations Help the world s smartest woman win the Monty Hall problem argument Reveal Jupiter s Great Red Spot using optical stacking Save the head of Mary Queen of Scots with steganography Foil corporate security with invisible electronic ink Simulate volcanoes map Mars and more all while gaining valuable experience using free modules like Tkinter matplotlib Cprofile Pylint Pygame Pillow and Python Docx Whether you re looking to pick up some new Python skills or just need a pick me up you ll find endless educational geeky fun with Impractical Python Projects

Python Machine Learning for Beginners Ai Publishing,2020-10-23 Python Machine Learning for BeginnersMachine Learning ML and Artificial Intelligence AI are here to stay Yes that s right Based on a significant amount of data and evidence it s obvious that ML and AI are here to stay Consider any industry today The practical applications of ML are really driving business results Whether it s healthcare e commerce government transportation social media sites financial services manufacturing oil and gas marketing and salesYou name it The list goes on There s no doubt that ML is going to play a decisive role in every domain in the future But what does a Machine Learning professional do A Machine Learning specialist develops intelligent algorithms that learn from data and also adapt to the data quickly Then these high end algorithms make accurate predictions Python Machine Learning for Beginners presents you with a hands on approach to learn ML fast How Is This Book Different AI Publishing strongly believes in learning by doing methodology With this in mind we have crafted this book with care You will find that the emphasis on the theoretical aspects of machine learning is equal to the emphasis on the practical aspects of the subject matter You ll learn about data analysis and visualization in great detail in the first half of the book Then in the second half you ll learn about machine learning and statistical models for data science Each chapter presents you with the theoretical framework behind the different data science and machine learning techniques and practical examples illustrate the working of these techniques When you buy this book your learning journey becomes so much easier The reason is you get instant access to all the related learning material presented with this book references PDFs Python codes and exercises on the publisher s website All this material is available to you at no extra cost You can download the ML datasets used in this book at runtime or you can access them via the Resources Datasets folder You ll also find the short course on Python programming in the second chapter immensely useful especially if you are new to Python Since this book gives you access to all the Python codes and datasets you only need access to a computer with the internet to get started The topics covered include Introduction and Environment Setup Python Crash Course Python NumPy Library for Data Analysis Introduction to Pandas Library for Data Analysis Data Visualization via Matplotlib Seaborn and Pandas Libraries Solving Regression Problems in ML Using Sklearn Library Solving Classification Problems in ML Using Sklearn Library Data Clustering with ML Using Sklearn Library Deep Learning with Python TensorFlow 2 0 Dimensionality Reduction with PCA and LDA Using Sklearn Click the BUY NOW button to start your Machine Learning journey

Beginning Artificial Intelligence with the Raspberry Pi Donald J. Norris,2017-06-05 Gain a gentle introduction to the world of Artificial Intelligence AI using the Raspberry Pi as the computing platform Most of the major AI topics will be explored including expert systems machine learning both shallow and deep fuzzy logic control and more AI in action will be demonstrated using the Python language on the Raspberry Pi The Prolog language will also be introduced and used to demonstrate fundamental AI concepts In addition the Wolfram language will be used as part of the deep machine learning demonstrations A series of projects will walk you through how to implement AI concepts with the Raspberry Pi Minimal expense is needed for the projects as only a few sensors and actuators will be required Beginners and hobbyists can jump right in to creating AI projects with the Raspberry PI using this book What You ll Learn What AI is and as importantly what it is not Inference and expert systems Machine learning both shallow and deep Fuzzy logic and how to apply to an actual control system When AI might be appropriate to include in a system Constraints and limitations of the Raspberry Pi AI implementation Who This Book Is For Hobbyists makers engineers involved in designing autonomous systems and wanting to gain an education in fundamental AI concepts and non technical readers who want to understand what AI is and how it might affect their lives

Python Machine Learning Sebastian Raschka,2015-09-23 Unlock deeper insights into Machine Leaning with this vital guide to cutting edge predictive analytics About This Book Leverage Python s most powerful open source libraries for deep learning data wrangling and data visualization Learn effective strategies and best practices to improve and optimize machine learning systems and algorithms Ask and answer tough questions of your data with robust statistical models built for a range of datasets Who This Book Is For If you want to find out how to use Python to start answering critical questions of your data pick up Python Machine Learning whether you want to get started from scratch or want to extend your data science knowledge this is an essential and unmissable resource What You Will Learn Explore how to use different machine learning models to ask different questions of your data Learn how to build neural networks using Keras and Theano Find out how to write clean and elegant Python code that will optimize the strength of your algorithms Discover how to embed your machine learning model in a web application for increased accessibility Predict continuous target outcomes using regression analysis Uncover hidden patterns and structures in data with clustering Organize data using effective pre processing techniques Get to grips with sentiment analysis to delve deeper into textual and social media data In Detail Machine learning and predictive analytics are transforming the way businesses and other organizations operate Being able to understand trends and patterns in complex data is critical to success becoming one of the key strategies for unlocking growth in a challenging contemporary marketplace Python can help you deliver key insights into your data its unique capabilities as a language let you build sophisticated algorithms and statistical models that can reveal new perspectives and answer key questions that are vital for success Python Machine Learning gives you access to the world of predictive analytics and demonstrates why Python is one of the world s leading data science languages If you want to ask better questions of data or need to improve and extend the capabilities of your machine learning systems this practical data science book is invaluable Covering a wide range of powerful Python libraries including scikit learn Theano and Keras and featuring guidance and tips on everything from sentiment analysis to neural networks you ll soon be able to answer some of the most important questions facing you and your organization Style and approach Python Machine Learning connects the fundamental theoretical principles behind machine learning to their practical application in a way that focuses you on asking and answering the right questions It walks you through the key elements of Python and its powerful machine learning libraries while demonstrating how to get to grips with a range of statistical models

Python Machine Learning Projects Lisa Tagliaferri,Michelle Morales,Ellie Birkbeck,Alvin Wan,2019-05-02 As machine learning is increasingly leveraged to find patterns conduct analysis and make decisions sometimes without final input from humans who may be impacted by these findings it is crucial to invest in bringing more stakeholders into the fold This book of Python projects in machine learning tries to do just that to equip the developers of today and tomorrow with tools they can use to better understand evaluate and shape machine learning to help ensure that it is serving us all This book will set you up with a Python programming environment if you don t have one already then provide you with a conceptual understanding of machine learning in the chapter An Introduction to Machine Learning What follows next are three Python machine learning projects They will help you create a machine learning classifier build a neural network to recognize handwritten digits and give you a background in deep reinforcement learning through building a bot for Atari

Tiny Python Projects Ken Youens-Clark,2020-07-21 Tiny Python Projects is a gentle and amusing introduction to Python that will firm up key programming concepts while also making you giggle Amanda Debler Schaeffler Key Features Learn new programming concepts through 21 bitesize programs Build an insult generator a Tic Tac Toe AI a talk like a pirate program and more Discover testing techniques that will make you a better programmer Code along with free accompanying videos on YouTube Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About The Book The 21 fun but powerful activities in Tiny Python Projects teach Python fundamentals through puzzles and games You ll be engaged and entertained with every exercise as you learn about text manipulation basic algorithms and lists and dictionaries and other foundational programming skills Gain confidence and experience while you create each satisfying project Instead of going quickly through a wide range of concepts this book concentrates on the most useful skills like text manipulation data structures collections and program logic with projects that include a password creator a word rhymer and a Shakespearean insult generator Author Ken Youens Clark also teaches you good programming practice including writing tests for your code as you go What You Will Learn Write command line Python programs Manipulate Python data structures Use and control randomness Write and run tests for programs and functions Download testing suites for each project This Book Is Written For For readers familiar with the basics of Python programming About The Author Ken Youens Clark is a Senior Scientific Programmer at the University of Arizona He has an MS in Biosystems Engineering and has been programming for over 20 years Table of Contents 1 How to write and test a Python program 2 The crow s nest Working with strings 3 Going on a picnic Working with lists 4 Jump the Five Working with dictionaries 5 Howler Working with files and STDOUT 6 Words count Reading files and STDIN iterating lists formatting strings 7 Gashlycrumb Looking items up in a dictionary 8 Apples and Bananas Find and replace 9 Dial a Curse Generating random insults from lists of words 10 Telephone Randomly mutating strings 11 Bottles of Beer Song Writing and testing functions 12 Ransom Randomly capitalizing text 13 Twelve Days of Christmas Algorithm design 14 Rhymer Using regular expressions to create rhyming words 15 The Kentucky Friar More regular expressions 16 The Scrambler Randomly reordering the middles of words 17 Mad Libs Using regular expressions 18 Gematria Numeric encoding of text using ASCII values 19 Workout of the Day Parsing CSV files creating text table output 20 Password strength Generating a secure and memorable password 21 Tic Tac Toe Exploring state 22 Tic Tac Toe redux An interactive version with type hints

Python Deep Learning Projects Matthew Lamons,Rahul Kumar,Abhishek Nagaraja,2018-10-31 Insightful projects to master deep learning and neural network architectures using Python and Keras Key FeaturesExplore deep learning across computer vision natural language processing NLP and image processingDiscover best practices for the training of deep neural networks and their deploymentAccess popular deep learning models as well as widely used neural network architecturesBook Description Deep learning has been gradually revolutionizing every field of artificial intelligence making application development easier Python Deep Learning Projects imparts all the knowledge needed to implement complex deep learning projects in the field of computational linguistics and computer vision Each of these projects is unique helping you progressively master the subject You ll learn how to implement a text classifier system using a recurrent neural network RNN model and optimize it to understand the shortcomings you might experience while implementing a simple deep learning system Similarly you ll discover how to develop various projects including word vector representation open domain question answering and building chatbots using seq to seq models and language modeling In addition to this you ll cover advanced concepts such as regularization gradient clipping gradient normalization and bidirectional RNNs through a series of engaging projects By the end of this book you will have gained knowledge to develop your own deep learning systems in a straightforward way and in an efficient way What you will learnSet up a deep learning development environment on Amazon Web Services AWS Apply GPU powered instances as well as the deep learning AMIImplement seq to seq networks for modeling natural language processing NLP Develop an end to end speech recognition systemBuild a system for pixel wise semantic labeling of an imageCreate a system that generates images and their regionsWho this book is for Python Deep Learning Projects is for you if you want to get insights into deep learning data science and artificial intelligence This book is also for those who want to break into deep learning and develop their own AI projects It is assumed that you have sound knowledge of Python programming

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