

Computer Science With Python By Sumita Arora

Mastering Deep Learning Fundamentals with Python Deep Learning with Python, Second Edition Introduction to Machine Learning with Python Introduction to Computing & Problem Solving With PYTHON Programming With Python Python Get Programming Coding with Python Made Easy Natural Language Processing with Python Explainable AI with Python Machine Learning with Python Mastering Reinforcement Learning with Python Applied Computational Thinking with Python Python Automate the Boring Stuff with Python, 2nd Edition Natural Language Processing with Python Quick Start Guide Learn AI with Python Python Programming Essentials Simplifying Data Science With Python Data Science and Analytics with Python Richard Wilson Francois Chollet Andreas C. Müller Jeeva Jose Vaibhav Gondaliya Charlie Masterson Ana Bell Habzy Lusi Steven Bird Leonida Gianfagna Russel R Russo Enes Bilgin Sofía De Jesús Charlie Masterson Al Sweigart Nirant Kasliwal Gaurav Leekha Rafael Sanders Billy David Millican Jesus Rogel-Salazar

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buy the paperback version of this book and get the kindle book version for free step into the fascinating world of data science you to participate in the revolution that brings artificial intelligence back to the heart of our society thanks to data scientists data science consists in translating problems of any other nature into quantitative modeling problems solved by processing algorithms this book designed for anyone wishing to learn deep learning this book presents the main techniques deep neural networks able to model all kinds of data convolution networks able to classify images segment them and discover the objects or people who are there recurring networks it contains sample code so that the reader can easily

test and run the programs on the program deep learning neural networks and deep learning deep learning parameters and hyper parameters deep neural networks layers deep learning activation functions convolutional neural network python data structures best practices in python and zen of python installing python python these are some of the topics covered in this book fundamentals of deep learning fundamentals of probability fundamentals of statistics fundamentals of linear algebra introduction to machine learning and deep learning fundamentals of machine learning fundamentals of neural networks and deep learning deep learning parameters and hyper parameters deep neural networks layers deep learning activation functions convolutional neural network deep learning in practice in jupyter notebooks python data structures best practices in python and zen of python installing python the 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 and more get this book now to learn more about deep learning in python by setting up the coding environment

deep learning with python introduces the field of deep learning using the python language and the powerful keras library you ll learn directly from the creator of keras françois chollet building your understanding through intuitive explanations and practical examples updated from the original bestseller with over 50 new content this second edition includes new chapters cutting edge innovations and coverage of the very latest deep learning tools you ll explore challenging concepts and practice with applications in computer vision natural language processing and generative models by the time you finish you ll have the knowledge and hands on skills to apply deep learning in your own projects

many python developers are curious about what machine learning is and how it can be concretely applied to solve issues faced in businesses handling medium to large amount of data machine learning with python teaches you the basics of machine learning and provides a thorough hands on understanding of the subject you ll learn important machine learning concepts and algorithms when to use them and how to use them the book will cover a machine learning workflow data preprocessing and working with data training algorithms evaluating results and implementing those algorithms into a production level system

this book introduction to computing and problem solving with python will help every student teacher and researcher to understand the computing basics and advanced pythonprogramming language the python programming topics include the reserved keywords identifiers variables operators data types and their operations flowcontrol techniques which include decision making and looping modules filesand exception handling techniques advanced topics like python regularexpressions database programming and object oriented programming concepts arealso covered in detail all chapters have worked out programs illustrations review and frequently asked interview questions the simple style of presentationmakes this a

friend for self learners more than 300 solved lab exercises available in this book is tested in python 3.4.3 version for windows the book covers syllabus for more than 35 international universities and 45 indian universities like Dr. A.P.J. Abdul Kalam Technological University, Christ University, Savitribai Phule Pune University, University of Delhi, University of Calicut, Mahatma Gandhi University, University of Mumbai, AICTE, CBSE, MIT, University of Virginia, University of Chicago, University of Toronto, Technical University of Denmark etc

about book title programming with python the comprehensive guide to mastering python programming for beginners are you interested in learning python programming look no further than this comprehensive guide designed for beginners to gain a strong foundation in the language this book covers everything from installation and setup to all fundamental topics such as conditioning loops lists oops dbms with clear explanations real world examples and hands on exercises you will be able to master python in no time in this book you will learn how to set up your python development environment python syntax and basic concepts data types variables and operators conditional statements and loops file input output and data processing functions modules and packages object oriented programming and classes this guide also includes a wide range of exercises and projects to help you practice and apply what you've learned whether you're a complete beginner or have some programming experience programming with python is an essential resource for anyone looking to learn the world's most popular programming language

learn python programming today and begin your path towards python programming mastery in this definitive python guide you're about to discover how to program code in python through learning the core essentials that every python programmer must know python is a very popular programming language and there are a great many books on the market concerning it we cut to the chase and tell you why you should get this one here is a preview of what you will learn essentials of python programming quickly pick up the language and start applying the concepts to any code that you write major facets of python programming including concepts you can apply to any language various mechanics of python programming control flow variables lists dictionaries and classes and why learning these core principles are important to python programming success object oriented programming its influence to today's popular computer languages and why it matters and much much more added benefits of owning this book get a better understanding of the python programming language learn the basic essentials of python in order to gain the confidence to tackle more complex topics gain the critical steps in your path towards python programming mastery by implementing the lessons in this book not only would you learn one of today's popular computer languages but it will serve as your guide in accomplishing all your python goals whether as a fun hobby or as a starting point into a successful and long term programming career take action today and get this book now to reach your python programming goals

get programming learn to code with python teaches you the basics of computer programming using the python language in this exercise driven

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ready to learn python but intimidated by complex jargon and endless theory this book cuts through the fluff offering a straight path to coding success coding with python made easy is your hands on guide to mastering the fundamentals of python programming designed for absolute beginners and those with some coding experience this book takes a simple direct and practical approach to learning python you'll start with the basics setting up your environment and understanding variables and quickly progress to more advanced concepts like control flow loops functions and modules emphasis is placed on learning by doing each chapter includes clear explanations concise code examples and practical exercises to

solidify your understanding you ll learn how to solve real world problems automate tasks and build simple applications by the end of this book you ll have a solid foundation in python and the confidence to tackle more complex coding challenges this is a tutorial not a text book so theory takes a back seat to here s what to do why choose this book beginner friendly no prior programming experience needed we start from scratch practical focus learn python by writing code and solving problems not just reading about it clear and concise complex concepts are broken down into easy to understand steps real world examples learn python in the context of real world applications step by step approach progress gradually and build your skills with confidence call to action stop struggling with complicated coding guides start building powerful applications today get your copy of coding with python made easy and unlock your coding potential

this book offers a highly accessible introduction to natural language processing the field that supports a variety of language technologies from predictive text and email filtering to automatic summarization and translation with it you ll learn how to write python programs that work with large collections of unstructured text you ll access richly annotated datasets using a comprehensive range of linguistic data structures and you ll understand the main algorithms for analyzing the content and structure of written communication packed with examples and exercises natural language processing with python will help you extract information from unstructured text either to guess the topic or identify named entities analyze linguistic structure in text including parsing and semantic analysis access popular linguistic databases including wordnet and treebanks integrate techniques drawn from fields as diverse as linguistics and artificial intelligence this book will help you gain practical skills in natural language processing using the python programming language and the natural language toolkit nltk open source library if you re interested in developing web applications analyzing multilingual news sources or documenting endangered languages or if you re simply curious to have a programmer s perspective on how human language works you ll find natural language processing with python both fascinating and immensely useful

this book provides a full presentation of the current concepts and available techniques to make machine learning systems more explainable the approaches presented can be applied to almost all the current machine learning models linear and logistic regression deep learning neural networks natural language processing and image recognition among the others progress in machine learning is increasing the use of artificial agents to perform critical tasks previously handled by humans healthcare legal and finance among others while the principles that guide the design of these agents are understood most of the current deep learning models are opaque to human understanding explainable ai with python fills the current gap in literature on this emerging topic by taking both a theoretical and a practical perspective making the reader quickly capable of working with tools and code for explainable ai beginning with examples of what explainable ai xai is and why it is needed in the field the book details different approaches to xai depending on specific context and need hands on work on interpretable models with specific examples

leveraging python are then presented showing how intrinsic interpretable models can be interpreted and how to produce human understandable explanations model agnostic methods for xai are shown to produce explanations without relying on ml models internals that are opaque using examples from computer vision the authors then look at explainable models for deep learning and prospective methods for the future taking a practical perspective the authors demonstrate how to effectively use ml and xai in science the final chapter explains adversarial machine learning and how to do xai with adversarial examples

are you fascinated by machine learning but it seems too complicated do you have some coding skills but you want to go deeper in python and machine learning if this is you please keep reading you are in the right place looking at the right book since you are reading this you are probably aware of how important artificial intelligence is in these days in your everyday life artificial intelligence is all around you every time you buy a product on amazon follow a new profile on instagram listen to a song on spotify or reserve a room on booking they are learning something out of your behavior and these are just the most visible aspects of how machine learning is having an impact on our lives everyone knows well almost everyone how important machine learning is for the growth and success of the biggest tech companies and many people know about the machine learning impact in science medicine and statistics also it is quite commonly known that artificial intelligence machine learning and the mastering of their most important language python can offer a lot of possibilities in work and business and you yourself are probably thinking i surely can see that opportunity but how can i seize it well if you kept reading so far you are on the right track to answer your question in machine learning with python you will find why python is the best language for machine learning how to bring your ideas into a computer the smartest way to approach machine learning how to deal with variables and data tips and tricks for a smooth and painless journey into artificial intelligence the most common myths about machine learning debunked so whether you decided to start now or to go deeper into artificial intelligence machine learning and python programming you will only have two unanswered questions right now what is the best way to do it and when is the best time to start an easy clear and complete guide as machine learning with python is the answer to your first question and about the second one well that s an easy one the best time is now download machine learning with python now and start mastering the secrets of artificial intelligence scroll to the top of the page and click the buy now button

get hands on experience in creating state of the art reinforcement learning agents using tensorflow and rllib to solve complex real world business and industry problems with the help of expert tips and best practices key features understand how large scale state of the art rl algorithms and approaches work apply rl to solve complex problems in marketing robotics supply chain finance cybersecurity and more explore tips and best practices from experts that will enable you to overcome real world rl challenges book description reinforcement learning rl is a field of artificial intelligence ai used for creating self learning autonomous agents building on a strong theoretical foundation this book takes a practical approach

and uses examples inspired by real world industry problems to teach you about state of the art rl starting with bandit problems markov decision processes and dynamic programming the book provides an in depth review of the classical rl techniques such as monte carlo methods and temporal difference learning after that you will learn about deep q learning policy gradient algorithms actor critic methods model based methods and multi agent reinforcement learning then you ll be introduced to some of the key approaches behind the most successful rl implementations such as domain randomization and curiosity driven learning as you advance you ll explore many novel algorithms with advanced implementations using modern python libraries such as tensorflow and ray s rllib package you ll also find out how to implement rl in areas such as robotics supply chain management marketing finance smart cities and cybersecurity while assessing the trade offs between different approaches and avoiding common pitfalls by the end of this book you ll have mastered how to train and deploy your own rl agents for solving rl problems what you will learnmodel and solve complex sequential decision making problems using rldevelop a solid understanding of how state of the art rl methods workuse python and tensorflow to code rl algorithms from scratchparallelize and scale up your rl implementations using ray s rllib packageget in depth knowledge of a wide variety of rl topicsunderstand the trade offs between different rl approachesdiscover and address the challenges of implementing rl in the real worldwho this book is for this book is for expert machine learning practitioners and researchers looking to focus on hands on reinforcement learning with python by implementing advanced deep reinforcement learning concepts in real world projects reinforcement learning experts who want to advance their knowledge to tackle large scale and complex sequential decision making problems will also find this book useful working knowledge of python programming and deep learning along with prior experience in reinforcement learning is required

use the computational thinking philosophy to solve complex problems by designing appropriate algorithms to produce optimal results across various domains key featuresdevelop logical reasoning and problem solving skills that will help you tackle complex problemsexplore core computer science concepts and important computational thinking elements using practical examplesfind out how to identify the best suited algorithmic solution for your problembook description computational thinking helps you to develop logical processing and algorithmic thinking while solving real world problems across a wide range of domains it s an essential skill that you should possess to keep ahead of the curve in this modern era of information technology developers can apply their knowledge of computational thinking to solve problems in multiple areas including economics mathematics and artificial intelligence this book begins by helping you get to grips with decomposition pattern recognition pattern generalization and abstraction and algorithm design along with teaching you how to apply these elements practically while designing solutions for challenging problems you ll then learn about various techniques involved in problem analysis logical reasoning algorithm design clusters and classification data analysis and modeling and understand how computational thinking elements can be used together with these aspects to design solutions toward the end you will discover how to identify pitfalls in the solution design process and how to choose the right

functionalities to create the best possible algorithmic solutions by the end of this algorithm book you will have gained the confidence to successfully apply computational thinking techniques to software development what you will learn find out how to use decomposition to solve problems through visual representation employ pattern generalization and abstraction to design solutions build analytical skills required to assess algorithmic solutions use computational thinking with python for statistical analysis understand the input and output needs for designing algorithmic solutions use computational thinking to solve data processing problems identify errors in logical processing to refine your solution design apply computational thinking in various domains such as cryptography economics and machine learning who this book is for this book is for students developers and professionals looking to develop problem solving skills and tactics involved in writing or debugging software programs and applications familiarity with python programming is required

have you been coding for awhile now but could still use some useful python coding tips do you have some basic knowledge with python and want to learn more if you answered yes to any of these questions then look no further this book is for you in this definitive python intermediate level guide you are about to discover several different tips and tricks to help improve your work with python you will find coding in each chapter that helps with a certain application each chapter will cover a different tip and will have different coding here is a preview of what you will learn how to change colors using python for better looking interfaces accessing e mails and text messages how to manipulate images scheduling and timing programs and much much more other benefits of owning this book gain more knowledge about the capabilities of the python programming language learn the intermediate essentials of python in order to gain the confidence to tackle more complex topics gain the critical steps in your path towards python programming mastery by implementing the lessons in this book not only would you learn one of today's popular computer language but it will serve as your guide in accomplishing all your python goals whether as a fun hobby or as a starting point into a successful and long term programming career

learn how to code while you write programs that effortlessly perform useful feats of automation the second edition of this international fan favorite includes a brand new chapter on input validation gmail and google sheets automations tips for updating csv files and more if you've ever spent hours renaming files or updating spreadsheet cells you know how tedious tasks like these can be but what if you could have your computer do them for you automate the boring stuff with python 2nd edition teaches even the technically uninclined how to write programs that do in minutes what would take hours to do by hand no prior coding experience required this new fully revised edition of al sweigart's bestselling pythonic classic automate the boring stuff with python covers all the basics of python 3 while exploring its rich library of modules for performing specific tasks like scraping data off the filling out forms renaming files organizing folders sending email responses and merging splitting or encrypting pdfs there's also a brand new chapter on input validation tutorials on automating gmail and google sheets tips on automatically

updating csv files and other recent feats of automations that improve your efficiency detailed step by step instructions walk you through each program allowing you to create useful tools as you build out your programming skills and updated practice projects at the end of each chapter challenge you to improve those programs and use your newfound skills to automate similar tasks boring tasks no longer have to take to get through and neither does learning python

build and deploy intelligent applications for natural language processing with python by using industry standard tools and recently popular methods in deep learning key features a no math code driven programmer's guide to text processing and nlp get state of the art results with modern tooling across linguistics text vectors and machine learning fundamentals of nlp methods from spacy gensim scikit learn and pytorch book description nlp in python is among the most sought after skills among data scientists with code and relevant case studies this book will show how you can use industry grade tools to implement nlp programs capable of learning from relevant data we will explore many modern methods ranging from spacy to word vectors that have reinvented nlp the book takes you from the basics of nlp to building text processing applications we start with an introduction to the basic vocabulary along with a workflow for building nlp applications we use industry grade nlp tools for cleaning and pre processing text automatic question and answer generation using linguistics text embedding text classifier and building a chatbot with each project you will learn a new concept of nlp you will learn about entity recognition part of speech tagging and dependency parsing for q and a we use text embedding for both clustering documents and making chatbots and then build classifiers using scikit learn we conclude by deploying these models as rest apis with flask by the end you will be confident building nlp applications and know exactly what to look for when approaching new challenges what you will learn understand classical linguistics in using english grammar for automatically generating questions and answers from a free text corpus work with text embedding models for dense number representations of words subwords and characters in the english language for exploring document clustering deep learning in nlp using pytorch with a code driven introduction to pytorch using an nlp project management framework for estimating timelines and organizing your project into stages hack and build a simple chatbot application in 30 minutes deploy an nlp or machine learning application using flask as restful apis who this book is for programmers who wish to build systems that can interpret language exposure to python programming is required familiarity with nlp or machine learning vocabulary will be helpful but not mandatory

description ai has become the driving force behind innovation in almost every field from healthcare and education to business and communication in today's fast changing world learning ai is no longer optional it is a necessity for anyone who wants to stay ahead in the digital age python with its simplicity and vast library support makes this journey both enjoyable and practical this new edition takes you step by step into the world of ai ml and deep learning you will learn how to preprocess and visualize data perform feature engineering and implement ml algorithms from scratch

the book further guides you through natural language processing with nltk building chatbots developing image classifiers with cnns and improving model performance through fine tuning and optimization by the end of this book you will be confident in handling data building intelligent systems and deploying real world ai applications using python whether you are a student a working professional or a tech enthusiast this book will equip you with the right skills and practical knowledge to begin your journey as an ai practitioner what you will learn preprocess and visualize data for effective ml models implement ml algorithms from scratch using python engineer features to enhance model accuracy and performance build intelligent chatbots and conversational ai applications with python develop image classifiers using cnns optimize and fine tune ml models for real world use apply natural language processing effectively using nltk library create smart data driven solutions using ai techniques who this book is for this book is ideal for students working professionals and tech enthusiasts who want to build practical skills in ai it is especially useful for software developers data analysts engineers and researchers looking to create intelligent applications chatbots and predictive models using python

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python programming essentials build real world applications from scratch is the perfect resource for developers looking to master python and take their skills to the next level whether you re a beginner or an experienced programmer this step by step guide will help you build robust real world applications using python s powerful features and clean syntax python has become one of the most versatile and popular programming languages used across various fields such as web development data analysis automation machine learning and more in this book you ll learn the essentials of python programming explore best practices and get hands on experience by building practical applications from scratch what you ll learn in python programming essentials

introduction to python understand the basics of python including its syntax data types and core concepts learn why python is widely used in industry and how its simple yet powerful nature makes it ideal for developers of all experience levels setting up your development environment learn how to set up python on your local machine install and manage packages using pip and work with virtual environments this section also covers useful development tools and ides to optimize your coding workflow core python concepts dive into python s core features such as variables loops conditionals functions and classes master the fundamentals and understand how to use them to build flexible and efficient applications data structures and algorithms learn about python s built in data structures like lists tuples dictionaries and sets understand when to use each one and how to write efficient algorithms for sorting searching and iterating through data object oriented programming in python master the principles of object oriented programming oop in python learn how to create classes manage inheritance

implement polymorphism and design applications with reusable and modular code working with files and databases discover how to work with external files read and write data and interact with databases learn how to connect to sql databases execute queries and perform crud create read update delete operations with python building applications with python explore web development with python by building a simple web application using flask or django learn how to handle http requests create templates manage user input and build dynamic web pages building and consuming apis learn how to work with apis in python both by consuming external apis and creating your own understand how to make http requests handle responses and build restful apis to integrate with other applications error handling and debugging learn how to handle errors and exceptions in python discover best practices for debugging your code and ensuring that your applications run smoothly in production environments advanced python techniques explore advanced python features such as decorators generators and context managers learn how to use these features to write cleaner more efficient code deploying python applications learn how to deploy your python applications to production this includes packaging your code setting up deployment pipelines and deploying to platforms such as heroku or aws by the end of python programming essentials you ll have a comprehensive understanding of python and how to apply it to build real world applications whether you re developing web apps data pipelines or automating tasks this book will provide the tools you need to become proficient in python and take your programming skills to new heights

explore the world of data science with simplifying data science with python by billy david millican a talented fusion of musician and data scientist this accessible guide takes you from the basics of python programming to advanced machine learning techniques breaking down complex concepts into practical relatable insights drawing from his extensive experience in both the tech and music industries billy shares real world examples that illustrate the transformative power of data designed for beginners this book provides essential resources like a glossary and case studies to enhance your learning experience billy s mission is to empower everyone regardless of technical background to harness the potential of data join him on this exciting journey and discover the possibilities that data science can bring to your life and career

data science and analytics with python is designed for practitioners in data science and data analytics in both academic and business environments the aim is to present the reader with the main concepts used in data science using tools developed in python such as scikit learn pandas numpy and others the use of python is of particular interest given its recent popularity in the data science community the book can be used by seasoned programmers and newcomers alike the book is organized in a way that individual chapters are sufficiently independent from each other so that the reader is comfortable using the contents as a reference the book discusses what data science and analytics are from the point of view of the process and results obtained important features of python are also covered including a python primer the basic elements of machine learning pattern recognition and artificial intelligence that underpin the algorithms and implementations used in the rest of the book also appear in the first

part of the book regression analysis using python clustering techniques and classification algorithms are covered in the second part of the book hierarchical clustering decision trees and ensemble techniques are also explored along with dimensionality reduction techniques and recommendation systems the support vector machine algorithm and the kernel trick are discussed in the last part of the book about the author dr jesús rogel salazar is a lead data scientist with experience in the field working for companies such as akqa ibm data science studio dow jones and others he is a visiting researcher at the department of physics at imperial college london uk and a member of the school of physics astronomy and mathematics at the university of hertfordshire uk he obtained his doctorate in physics at imperial college london for work on quantum atom optics and ultra cold matter he has held a position as senior lecturer in mathematics as well as a consultant in the financial industry since 2006 he is the author of the book essential matlab and octave also published by crc press his interests include mathematical modelling data science and optimization in a wide range of applications including optics quantum mechanics data journalism and finance

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