Computer Science With Python By Sumita Arora

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this book is a comprehensive guide to learning the basics of computer vision and machine learning using the powerful opencv library and the python programming language the book offers a practical hands on approach to learning the concepts and

techniques of computer vision through practical examples all codes in this book are available on github through a series of examples the book covers a wide range of topics including image and video processing feature detection object detection and recognition machine learning and deep neural networks each chapter includes detailed explanations of the concepts and techniques involved as well as practical examples and code snippets demonstrating how to implement them in python throughout the book readers will work through hands on examples and projects learning how to build image processing applications from scratch whether you are a beginner or an experienced programmer this book provides a valuable resource for learning computer vision with opencv and python the clear and concise writing style makes it easy for readers to follow along and the numerous examples ensure that readers can practice and apply what they have learned by the end of the book readers will have a solid understanding of the fundamentals of computer vision and be able to build their own computer vision applications with confidence this book is an excellent resource for anyone looking to learn computer vision and machine learning using the opencv library and python programming language table of contents 1 introduction 1 1 about opencv 1 2 target audients of this book 1 3 source codes for this book 1 4 hardware requirements and software versions 1 5 how this book is organized 2 installation 2 1 install on windows 2 2 install python on ubuntu 2 3 configure pycharm and install opencv 3 opencv basics 3 1 load and display images 3 2 load and display videos 3 3 display webcam 3 4 image fundamentals 3 5 draw shapes 3 6 draw texts 3 7 draw an opencv like icon 4 user interaction 4 1 mouse operations 4 2 draw circles with mouse 4 3 draw polygon with mouse 4 4 crop an image with mouse 4 5 input values with trackbars 5 image processing 5 1 conversion of color spaces 5 2 resize crop and rotate an image 5 3 adjust contrast and brightness of an image 5 4 adjust hue saturation and value 5 5 blend image 5 6 bitwise operation 5 7 warp image 5 8 blur image 5 9 histogram 6 object detection 6 1 canny edge detection 6 2 dilation and erosion 6 3 shape detection 6 4 color detection 6 5 text recognition with tesseract 6 6 human detection 6 7 face and eye detection 6 8 remove background 6 9 blur background 7 machine learning 7 1 k means clustering 7 2 k nearest neighbors 7 3 support vector machine 7 4 artificial neural network ann 7 5 convolutional neural network cnn references about the author

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

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 exercisesavailable in this book is tested in python 3 4 3 version for windows the book covers syllabus for more than 35 international universities and45 indian universities like dr apj 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

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

machine learning has become an integral part of many commercial applications and research projects but this field is not exclusive to large companies with extensive research teams if you use python even as a beginner this book will teach you practical ways to build your own machine learning solutions with all the data available today machine learning applications are limited only by your imagination you ll learn the steps necessary to create a successful machine learning application with python and the scikit learn library authors andreas müller and sarah guido focus on the practical aspects of using machine learning algorithms rather than the math behind them familiarity with the numpy and matplotlib libraries will help you get even more from this book with this book you ll learn fundamental concepts and applications of machine learning advantages and shortcomings of widely used machine learning algorithms how to represent data processed by machine learning including which data aspects to focus on advanced methods for model evaluation and parameter tuning the concept of pipelines for chaining models and encapsulating your workflow methods for working with text data including text specific processing techniques suggestions for improving your machine learning and data science skills

machine learning has become an integral part of many commercial applications and research projects but this field is not exclusive to large companies with extensive research teams if you use python even as a beginner this book will teach you practical ways to build your own machine learning solutions with all the data available today machine learning applications are limited only by your imagination you ll learn the steps necessary to create a successful machine learning application with python and the scikit learn library authors andreas m ller and sarah guido focus on the practical aspects of using machine learning algorithms rather than the math behind them familiarity with the numpy and matplotlib libraries will help you get even more from this book with this book you ll learn fundamental concepts and applications of machine learning advantages and shortcomings of widely used machine learning algorithms how to represent data processed by machine learning including which data aspects to focus on advanced methods for model evaluation and parameter tuning the concept of pipelines for chaining models and encapsulating your workflow methods for working with text data including text specific processing techniques suggestions for improving your machine learning and data science skills

hands on design patterns with python is an essential guide for software developers and engineers seeking to master design patterns and enhance their python programming skills whether you re a beginner or an experienced python developer this book provides you with the tools and practical knowledge to implement and apply design patterns effectively in your projects design patterns are proven solutions to common software design challenges this book dives into the 23 classic design patterns categorizing them into creational structural and behavioral patterns offering real world python code examples and hands on

guidance each pattern is explained with clarity demonstrating its real world application and helping you write more modular scalable and maintainable code key features comprehensive coverage of design patterns from fundamental patterns like singleton and factory to advanced ones like command and state this book covers a wide range of design patterns with easy to follow python implementations practical code examples every pattern is accompanied by detailed python code showing you how to implement and adapt the pattern to solve common software design problems real world use cases learn how to apply design patterns to solve real world challenges through hands on projects and case studies you ll discover how these patterns fit into various python applications from simple scripts to complex systems modern python insights the book not only explains design patterns but also integrates python specific features such as decorators context managers and type hinting to make the code cleaner and more pythonic best practices for software design beyond just patterns this book emphasizes writing clean maintainable code refactoring legacy systems and building scalable architectures using design patterns who this book is for software developers looking to deepen their understanding of design patterns and enhance their python skills python engineers who want to write more efficient reusable and maintainable code software architects seeking a structured approach to designing scalable systems with python agile teams or scrum masters who want to integrate design patterns into their development process for better collaboration and system reliability what you ll learn creational patterns like singleton and factory method that simplify object creation structural patterns such as adapter composite and decorator that optimize system organization behavioral patterns like observer and strategy that manage object interaction advanced patterns like dependency injection and event driven architecture for modern scalable applications this book goes beyond theory and empowers you to apply what you ve learned in real projects whether you re building a simple application or developing enterprise level software you ll gain the skills to design better systems that are flexible maintainable and ready to evolve with your business needs hands on design patterns with python is a practical guide that equips you with everything you need to write cleaner more efficient and future proof software

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is an essential resource for anyone looking to learn the world s most popular programming language

data manipulation with python step by step a practical guide with examples offers a clear and systematic approach to mastering data handling tasks in python the book begins with essential programming fundamentals ensuring that readers regardless of background acquire a thorough grounding in variables data types control flow and function definition this foundation is progressively expanded to encompass the use of built in data structures and the effective management of input and output across various file formats as the book advances it introduces the pandas library providing detailed guidance on leveraging dataframes and series for efficient data organization transformation and analysis readers learn practical solutions for common challenges such as importing data cleaning and standardizing datasets handling missing or inconsistent values and working with date and time information each concept is presented with clear explanations and relevant examples that facilitate immediate application to real world data scenarios designed for students analysts and professionals this book balances accessibility with technical rigor by integrating practical tutorials and a complete project it enables readers to translate foundational concepts into robust workflows for data preparation exploration and reporting upon completion readers will be prepared to manage diverse data tasks with confidence optimizing python s capabilities for effective data manipulation and analysis

discover the exciting world of python programming welcome aspiring programmer to the fascinating realm of python programming are you ready to embark on an exciting journey through the captivating land of code do you aspire to master the power of python and become a skilled coder look no further this guide is here to lead you through a thrilling and engaging quest this extraordinary book is designed with the beginner in mind providing a fun and engaging approach to learning python with its humorous and casual tone this book will make you feel like you re on an adventurous journey while mastering the essential principles of python programming in this captivating guide you ll discover entertaining explanations that simplify the world of python for beginners a multitude of engaging examples and exercises that bring python concepts to life the essential dictionary of python terminology an invaluable glossary for deciphering the unique language of programming embark on an exciting journey through the following domains python fundamentals learn the art of crafting captivating code with variables operators and control flow data structures master the power of versatile objects like lists tuples dictionaries and sets error handling tame the unruly forces of bugs and errors with try except blocks and custom exceptions working with files uncover the secrets of reading and writing text csv and json files modules and packages utilize the power of useful tools and resources with python libraries project build an engaging command line application to showcase your coding expertise and so much more with this guide you ll unlock the power of python programming and become a proficient coder in no time so put on your thinking cap grab your keyboard and embark on a thrilling

journey through the fascinating world of python today note this guide is not meant to be comprehensive it s meant to get a newbie started on their way to coding and help them understand technical terms and processes

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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

get programming learn to code with python teaches you the basics of computer programming using the python language in this exercise driven book you ll be doing something on nearly every page as you work through 38 compact lessons and 7 engaging capstone projects by exploring the crystal clear illustrations exercises that check your understanding as you go and tips for what to try next you ll start thinking like a programmer in no time this book works perfectly alongside our video course get programming with python in motion available exclusively at manning com manning com livevideo get programming with python in motion purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications what s inside programming skills you can use in any language learn to code no experience required learn python the language for beginners dozens of exercises and examples help you learn by doing about the reader no prior programming experience needed table of contents learning how to program lesson 1 why should you learn how to program lesson 2 basic principles of learning a programming language unit 1 variables types expressions and statements lesson 3 introducing python a programming language lesson 4 variables and expressions giving names and values to things lesson 5 object types and statements of code 46 lesson 6 capstone project your first python program convert hours to minutes unit 2 strings tuples and interacting with the user lesson 7 introducing string objects sequences of characters lesson 8 advanced string operations lesson 9 simple error messages lesson 10 tuple objects sequences of any kind of object lesson 11 interacting with the user lesson 12 capstone project name mashup unit 3

making decisions in your programs lesson 13 introducing decisions in programs lesson 14 making more complicated decisions lesson 15 capstone project choose your own adventure unit 4 repeating tasks lesson 16 repeating tasks with loops lesson 17 customizing loops lesson 18 repeating tasks while conditions hold lesson 19 capstone project scrabble art edition unit 5 organizing your code into reusable blocks lesson 20 building programs to last lesson 21 achieving modularity and abstraction with functions lesson 22 advanced operations with functions lesson 23 capstone project analyze your friends unit 6 working with mutable data types lesson 24 mutable and immutable objects lesson 25 working with lists lesson 26 advanced operations with lists lesson 27 dictionaries as maps between objects lesson 28 aliasing and copying lists and dictionaries lesson 29 capstone project document similarity unit 7 making your own object types by using object oriented programming lesson 30 making your own object types lesson 31 creating a class for an object type lesson 32 working with your own object types lesson 33 customizing classes lesson 34 capstone project card game unit 8 using libraries to enhance your programs lesson 35 useful libraries lesson 36 testing and debugging your programs lesson 37 a library for graphical user interfaces lesson 38 capstone project game of tag appendix a answers to lesson exercises appendix b python cheat sheet appendix c interesting python libraries

leverage natural language processing nlp in python and learn how to set up your own robust environment for performing text analytics this second edition has gone through a major revamp and introduces several significant changes and new topics based on the recent trends in nlp you ll see how to use the latest state of the art frameworks in nlp coupled with machine learning and deep learning models for supervised sentiment analysis powered by python to solve actual case studies start by reviewing python for nlp fundamentals on strings and text data and move on to engineering representation methods for text data including both traditional statistical models and newer deep learning based embedding models improved techniques and new methods around parsing and processing text are discussed as well text summarization and topic models have been overhauled so the book showcases how to build tune and interpret topic models in the context of an interest dataset on nips conference papers additionally the book covers text similarity techniques with a real world example of movie recommenders along with sentiment analysis using supervised and unsupervised techniques there is also a chapter dedicated to semantic analysis where you ll see how to build your own named entity recognition ner system from scratch while the overall structure of the book remains the same the entire code base modules and chapters has been updated to the latest python 3 x release what you ll learn understand nlp and text syntax semantics and structure discover text cleaning and feature engineering review text classification and text clustering assess text summarization and topic models study deep learning for nlp who this book is for it professionals data analysts developers linguistic experts data scientists and engineers and basically anyone with a keen interest in linguistics analytics and generating insights from textual data

understand the constructs of the python programming language and use them to build data science projects key featureslearn the basics of developing applications with python and deploy your first data applicationtake your first steps in python programming by understanding and using data structures variables and loopsdelve into jupyter numpy pandas scipy and sklearn to explore the data science ecosystem in pythonbook description python is the most widely used programming language for building data science applications complete with step by step instructions this book contains easy to follow tutorials to help you learn python and develop real world data science projects the secret sauce of the book is its curated list of topics and solutions put together using a range of real world projects covering initial data collection data analysis and production this python book starts by taking you through the basics of programming right from variables and data types to classes and functions you ll learn how to write idiomatic code and test and debug it and discover how you can create packages or use the range of built in ones you ll also be introduced to the extensive ecosystem of python data science packages including numpy pandas scikit learn altair and datashader furthermore you ll be able to perform data analysis train models and interpret and communicate the results finally you ll get to grips with structuring and scheduling scripts using luigi and sharing your machine learning models with the world as a microservice by the end of the book you ll have learned not only how to implement python in data science projects but also how to maintain and design them to meet high programming standards what you will learncode in python using jupyter and vs codeexplore the basics of coding loops variables functions and classesdeploy continuous integration with git bash and dvcget to grips with pandas numpy and scikit learnperform data visualization with matplotlib altair and datashadercreate a package out of your code using poetry and test it with pytestmake your machine learning model accessible to anyone with the web apiwho this book is for if you want to learn python or data science in a fun and engaging way this book is for you you ll also find this book useful if you re a high school student researcher analyst or anyone with little or no coding experience with an interest in the subject and courage to learn fail and learn from failing a basic understanding of how computers work will be useful

this textbook shows how to bring theoretical concepts from finance and econometrics to the data focusing on coding and data analysis with python we show how to conduct research in empirical finance from scratch we start by introducing the concepts of tidy data and coding principles using pandas numpy and plotnine code is provided to prepare common open source and proprietary financial data sources crsp compustat mergent fisd trace and organize them in a database we reuse these data in all the subsequent chapters which we keep as self contained as possible the empirical applications range from key concepts of empirical asset pricing beta estimation portfolio sorts performance analysis fama french factors to modeling and machine learning applications fixed effects estimation clustering standard errors difference in difference estimators ridge regression lasso elastic net random forests neural networks and portfolio optimization techniques key features self contained chapters on the most important

applications and methodologies in finance which can easily be used for the reader s research or as a reference for courses on empirical finance each chapter is reproducible in the sense that the reader can replicate every single figure table or number by simply copying and pasting the code we provide a full fledged introduction to machine learning with scikit learn based on tidy principles to show how factor selection and option pricing can benefit from machine learning methods we show how to retrieve and prepare the most important datasets financial economics crsp and compustat including detailed explanations of the most relevant data characteristics each chapter provides exercises based on established lectures and classes which are designed to help students to dig deeper the exercises can be used for self studying or as a source of inspiration for teaching exercises

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

flask is a lightweight yet powerful python web framework widely used for developing scalable and secure web applications its simplicity flexibility and modular design make it ideal for both beginners and professionals mastering flask enhances employability by equipping learners with in demand skills needed for backend development restful api creation and full stack integration in modern web projects proficiency in flask opens doors to roles in web development software engineering and tech startups chapter 1 introduces the foundational concepts of flask a lightweight and flexible python web framework chapter 2 delves into the core concept of routing in flask which is essential for managing how users navigate a web application chapter 3 focuses on the

integration of jinja2 templating engine within flask applications to create dynamic and modular web pages chapter 4 provides a comprehensive understanding of how flask serves static content such as html css images videos and audio files chapter 5 delves into the foundational http methods supported by flask such as get post put and delete and explains how these methods enable communication between clients and servers

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