

Free epub Python in a physics lab the python papers (PDF)

build the foundational data science skills necessary to work with and better understand complex data science algorithms this example driven book provides complete python coding examples to complement and clarify data science concepts and enrich the learning experience coding examples include visualizations whenever appropriate the book is a necessary precursor to applying and implementing machine learning algorithms the book is self contained all of the math statistics stochastic and programming skills required to master the content are covered in depth knowledge of object oriented programming isn t required because complete examples are provided and explained data science fundamentals with python and mongodb is an excellent starting point for those interested in pursuing a career in data science like any science the fundamentals of data science are a prerequisite to competency without proficiency in mathematics statistics data manipulation and coding the path to success is rocky at best the coding examples in this book are concise accurate and complete and perfectly complement the data science concepts introduced what you ll learn prepare for a career in data science work with complex data structures in python simulate with monte carlo and stochastic algorithms apply linear algebra using vectors and matrices utilize complex algorithms such as gradient descent and principal component analysis wrangle cleanse visualize and problem solve with data use mongodb and json to work with data who this book is for the novice yearning to break into the data science world and the enthusiast looking to enrich deepen and develop data science skills through mastering the underlying fundamentals that are sometimes skipped over in the rush to be productive some knowledge of object oriented programming will make learning easier please note that the content of this book primarily consists of articles available from wikipedia or other free sources online pages 34 chapters python python syntax and semantics mobile application development history of python list of python software eclipse guido van rossum numpy server gateway interface python for s60 core python programming mnemosyne cython mod python schooltool pydev docstring global interpreter lock rur ple clyther flask construct spyce pyrex guido van robot python license python software foundation license skolesys application view controller python server pages pydoc python package index the python papers anthology python package manager pycharm activepython python remote objects pyusb logix excerpt python is a general purpose high level programming language whose design philosophy emphasizes code readability python claims to remarkable power with very clear syntax and its standard library is large and comprehensive its use of indentation for block delimiters is unique among popular programming languages python supports multiple programming paradigms primarily but not limited to object oriented imperative and to a lesser extent functional programming styles it features a fully dynamic type system and automatic memory management similar to that of scheme ruby perl and tcl like other dynamic languages python is often used as a scripting language but is also used in a wide range of non scripting contexts using third party tools python code can be packaged into standalone executable programs python interpreters are available for many operating systems the reference implementation of python cpython is free and open source software and has a community based development model as do all or nearly all of its alternative implementations cpython is managed by the non profit python software foundation guido van rossum the

creator of pythonpython was conceived in the leverage the power of python design patterns to solve real world problems in software architecture and design about this book understand the structural creational and behavioral python design patterns get to know the context and application of design patterns to solve real world problems in software architecture design and application development get practical exposure through sample implementations in python v3 5 for the design patterns featured who this book is for this book is for software architects and python application developers who are passionate about software design it will be very useful to engineers with beginner level proficiency in python and who love to work with python 3 5 what you will learn enhance your skills to create better software architecture understand proven solutions to commonly occurring design issues explore the design principles that form the basis of software design such as loose coupling the hollywood principle and the open close principle among others delve into the object oriented programming concepts and find out how they are used in software applications develop an understanding of creational design patterns and the different object creation methods that help you solve issues in software development use structural design patterns and find out how objects and classes interact to build larger applications focus on the interaction between objects with the command and observer patterns improve the productivity and code base of your application using python design patterns in detail with the increasing focus on optimized software architecture and design it is important that software architects think about optimizations in object creation code structure and interaction between objects at the architecture or design level this makes sure that the cost of software maintenance is low and code can be easily reused or is adaptable to change the key to this is reusability and low maintenance in design patterns building on the success of the previous edition learning python design patterns second edition will help you implement real world scenarios with python s latest release python v3 5 we start by introducing design patterns from the python perspective as you progress through the book you will learn about singleton patterns factory patterns and facade patterns in detail after this we ll look at how to control object access with proxy patterns it also covers observer patterns command patterns and compound patterns by the end of the book you will have enhanced your professional abilities in software architecture design and development style and approach this is an easy to follow guide to design patterns with hands on examples of real world scenarios and their implementation in python v3 5 each topic is explained and placed in context and for the more inquisitive there are more details on the concepts used ensure your code is sleek efficient and elegant by mastering powerful python design patternsabout this book learn all about abstract design patterns and how to implement them in python 3 understand the structural creational and behavioral python design patterns get to know the context and application of design patterns to solve real world problems in software architecture design and application development discover how to simplify design pattern implementation using the power of python 3who this book is forif you have basic python skills and wish to learn in depth how to correctly apply appropriate design patterns this course is tailor made for you what you will learn discover what design patterns are and how to apply them to writing python implement objects in python by creating classes and defining methods separate related objects into a taxonomy of classes and describe the properties and behaviors of those objects via the class interface understand when to use object oriented features and more importantly when not to use them get to know proven solutions to common design issues explore the design principles that form the basis of software design such as loose coupling the hollywood principle and the open close principle among others use structural

design patterns and find out how objects and classes interact to build larger applications improve the productivity and code base of your application using python design patterns secure an interface using the proxy pattern in detail python is an object oriented scripting language that is used in everything from data science to web development known for its simplicity python increases productivity and minimizes development time through applying essential software engineering design patterns to python python code becomes even more efficient and reusable from project to project this learning path takes you through every traditional and advanced design pattern best applied to python code building your skills in writing exceptional python divided into three distinct modules you'll go from foundational to advanced concepts by following a series of practical tutorials start with the bedrock of python programming the object oriented paradigm rethink the way you work with python as you work through the python data structures and object oriented techniques essential to modern python programming build your confidence as you learn python syntax and how to use oop principles with python tools such as django and kivy in the second module run through the most common and most useful design patterns from a python perspective progress through singleton patterns factory patterns facade patterns and more all with detailed hands on guidance enhance your professional abilities in software architecture design and development in the final module run through the more complex and less common design patterns discovering how to apply them to python coding with the help of real world examples get to grips with the best practices of writing python as well as creating systems architecture and troubleshooting issues this learning path combines some of the best that packt has to offer in one complete curated package it includes content from the following packt products python 3 object oriented programming second edition by dusty phillips learning python design patterns second edition by chetan giridhar mastering python design patterns by sakis kasampalis style and approach advance your python code through three distinct modules that each build on preceding content get the complete coverage of python design patterns you need to write elegant and efficient code that's reusable and powerful in the vast landscape of programming languages python stands out as a versatile and powerful tool that has gained immense popularity in recent years with its clean syntax ease of use and extensive libraries python has become the go to choice for beginners and experienced developers alike this chapter serves as a comprehensive introduction to the fundamental concepts and building blocks of python programming whether you are an aspiring programmer taking your first steps into the world of coding or an experienced developer looking to expand your skillset this chapter will provide you with a solid foundation in python we will explore the key concepts that underpin the language and equip you with the essential knowledge needed to tackle a wide range of programming tasks we will start by understanding the basic structure of a python program and how to write and execute your first hello world program from there we will delve into variables data types and operators which form the backbone of any programming language you will learn how to manipulate and store data effectively enabling you to solve real world problems with elegance and efficiency throughout this chapter we will provide practical examples exercises and tips to reinforce your understanding of python basics by the end you will have a solid grasp of the language's syntax core concepts and best practices setting you on a path to becoming a proficient python programmer leverage the power of python design patterns to solve real world problems in software architecture and design about this book understand the structural, creational, and behavioral python design patterns get to know the context and application of design patterns to solve real world problems in software

architecture design and application development get practical exposure through sample implementations in python v3 5 for the design patterns featured who this book is for this book is for software architects and python application developers who are passionate about software design it will be very useful to engineers with beginner level proficiency in python and who love to work with python 3 5 what you will learn enhance your skills to create better software architecture understand proven solutions to commonly occurring design issues explore the design principles that form the basis of software design such as loose coupling the hollywood principle and the open close principle among others delve into the object oriented programming concepts and find out how they are used in software applications develop an understanding of creational design patterns and the different object creation methods that help you solve issues in software development use structural design patterns and find out how objects and classes interact to build larger applications focus on the interaction between objects with the command and observer patterns improve the productivity and code base of your application using python design patterns in detail with the increasing focus on optimized software architecture and design it is important that software architects think about optimizations in object creation code structure and interaction between objects at the architecture or design level this makes sure that the cost of software maintenance is low and code can be easily reused or is adaptable to change the key to this is reusability and low maintenance in design patterns building on the success of the previous edition learning python design patterns second edition will help you implement real world scenarios with python s latest release python v3 5 we start by introducing design patterns from the python perspective as you progress through the book you will learn about singleton patterns factory patterns and facade patterns in detail after this we ll look at how to control object access with proxy patterns it also covers observer patterns command patterns and compound patterns by the end of the book you will have enhanced your professional abilities in software architecture design and development style and approach this is an easy to follow guide to design patterns with hands on examples of real world scenarios and their implementation in python v3 5 each topic is explained and placed in context and for the more inquisitive there are more details on the concepts used aspiring data science professionals can learn the scikit learn library along with the fundamentals of machine learning with this book the book combines the anaconda python distribution with the popular scikit learn library to demonstrate a wide range of supervised and unsupervised machine learning algorithms care is taken to walk you through the principles of machine learning through clear examples written in python that you can try out and experiment with at home on your own machine all applied math and programming skills required to master the content are covered in this book in depth knowledge of object oriented programming is not required as working and complete examples are provided and explained coding examples are in depth and complex when necessary they are also concise accurate and complete and complement the machine learning concepts introduced working the examples helps to build the skills necessary to understand and apply complex machine learning algorithms hands on scikit learn for machine learning applications is an excellent starting point for those pursuing a career in machine learning students of this book will learn the fundamentals that are a prerequisite to competency readers will be exposed to the anaconda distribution of python that is designed specifically for data science professionals and will build skills in the popular scikit learn library that underlies many machine learning applications in the world of python what you ll learn work with simple and complex datasets common to scikit learn manipulate data into vectors and matrices for

algorithmic processing become familiar with the anaconda distribution used in data science apply machine learning with classifiers regressors and dimensionality reduction tune algorithms and find the best algorithms for each dataset load data from and save to csv json numpy and pandas formats who this book is for the aspiring data scientist yearning to break into machine learning through mastering the underlying fundamentals that are sometimes skipped over in the rush to be productive some knowledge of object oriented programming and very basic applied linear algebra will make learning easier although anyone can benefit from this book hans langtangen explains how to develop tailored flexible and efficient working environments built from small programs written in python the focus is on examples and applications of relevance to computational science gain a fundamental understanding of python s syntax and features with the second edition of beginning python an up to date introduction and practical reference covering a wide array of python related programming topics including addressing language internals database integration network programming and web services you ll be guided by sound development principles ten accompanying projects will ensure you can get your hands dirty in no time updated to reflect the latest in python programming paradigms and several of the most crucial features found in python 3 0 otherwise known as python 3000 advanced topics such as extending python and packaging distributing python applications are also covered david schoenbrun examines groupwork the imaginative labor that people do to constitute themselves as communities in an iconic and influential region in east africa the names of the python supplements and redirects current debates about ethnicity in ex colonial africa and beyond introduction to computational models with python explains how to implement computational models using the flexible and easy to use python programming language the book uses the python programming language interpreter and several packages from the huge python library that improve the performance of numerical computing such as the numpy and scipy m the aim of this book is to teach computer programming using examples from mathematics and the natural sciences we have chosen to use the python programming language because it combines remarkable power with very clean simple and compact syntax python is easy to learn and very well suited for an introduction to computer programming python is also quite similar to matlab and a good language for doing mathematical computing it is easy to combine python with compiled languages like fortran c and c which are widely used languages for scientific computations a seamless integration of python with java is offered by a special version of python called jython the examples in this book integrate programming with applications to mathematics physics biology and nanotechnology the reader is expected to have knowledge of basic one variable calculus as taught in mathematics intensive programs in high schools it is certainly an advantage to take a university calculus course in parallel preferably containing both classical and numerical aspects of calculus although not strictly required a background in high school physics makes many of the examples more meaningful python algorithms explains the python approach to algorithm analysis and design written by magnus lie hetland author of beginning python this book is sharply focused on classical algorithms but it also gives a solid understanding of fundamental algorithmic problem solving techniques the book deals with some of the most important and challenging areas of programming and computer science but in a highly pedagogic and readable manner the book covers both algorithmic theory and programming practice demonstrating how theory is reflected in real python programs well known algorithms and data structures that are built into the python language are explained and the user is shown how to implement and evaluate others himself description this book

gives you an opportunity to check your proficiency in python by answering the questions in this book the programs commands presented in this book are executed using python version 3 5 2 the questions are categorized based on various facts of programming in python the aim is to cover the topics in depth detailed explanation of each question helps even a novice learner salient features more than 400 questions for testing skills in python topics covered in sequence for novice readers getting started section gives a good start and overview questions are represented topic wise so that a python programmer can directly go for t testing a particular topic multiple choice questions with true false options also questions based on output help to learn the programming skills and various in built functions in python better understanding through detailed explanation solved model test papers help to learn theory questionstable of contents chapter 1 input outputchapter 2 operators and expressionschapter 3 decision control statementschapter 4 functionschapter 5 loopschapter 6 listschapter 7 stringschapter 8 sets and dictionarieschapter 9 tupleschapter 10 classeschapter 11 fileschapter 12 graphicschapter 13 in built functionschapter 14 miscellaneousappendix a python keywords and their useappendix b operators in python and their precedence appendix c libraries in python and common functionsbibliographymodel test paper 1 solved model test paper 2 solved model test paper 3 unsolved model test paper 4 unsolved as part of the best selling pocket primer series this book is an effort to give programmers sufficient knowledge of python 3 to be able to work on their own projects in addition to covering all of the basic concepts the book features a chapter on pygame which allows a programmer to handle graphics mouse and keyboard interaction and play sounds and videos the demonstration example for that chapter is a lunar lander game another feature is the chapter on communication which makes use of one of python s best features a collection of modules for sending and receiving email communicating between computers and working with twitter and pages companion files that accompany this book contain all of the code examples as complete working programs this means that there is no need to key them in so they can be executed and perhaps modified or expanded features features a chapter on pygame which allows a programmer to handle graphics mouse keyboard interaction and play sounds and videos explores communication in depth making use of one of python s best features a collection of modules for sending and receiving email communicating between computers and working with twitter and pages companion files contain all of the code examples as complete working programs on the companion files also available from the publisher for downloading by emailing info merclearning com source code samples all images from the text including 4 color this book can serve as textbook for post graduates and reference for any computer graduate it will also provide easy reference for computer professionals who wants to begin their career in machine learning using python this book is precisely organized into twelve chapters each chapter has been carefully developed with the help of several implemented concepts dedicated efforts have been put in to ensure that every concept of python discussed in this book is explained with help of relevant commands and screenshots of the outputs have been included chapter 1 focuses on development environment offered by google colab chapters 2 through 4 cover the python language fundamentals focusing on control and iterative statements operators along with their applications in basic programs python employs blended programming paradigm in which it is procedural object oriented and functional the best part of all programming languages reside in a single platform chapter 5 focuses on functions in python with a special emphasis on lambda functions advanced python programming concepts such as iterators closures decorators generators are covered at depth in chapter 6 and 7 a good and in

depth knowledge of exception handling enables in writing a reliable and robust code to cater to this need chapter 8 unleashes the salient features of exception handling in python data persistence through file handling is covered in chapter 9 due to the wide application of regular expressions in pattern matching chapter 10 is fully devoted to understanding of regular expression in python different types of common errors that might creep in during the execution of a python program are summarized in chapter 11 final chapter 12 is devoted to implementation of object oriented concepts in python the case study based on object oriented concept is discussed at depth and implemented in appendix a the first section of the via veneto papers is an evocation of the rome of la dolce vita of the early stages in the writing and the realizing of the film itself and through a series of brilliant little sketches a commemoration of the aging poet vincenzo cardarelli skeptical survivor from an earlier time representative of an altogether different life occasional notebooks comprises the second section and the third section is an interview given by flaiano shortly before his death summary professional developers know the many benefits of writing application code that s clean well organized and easy to maintain by learning and following established patterns and best practices you can take your code and your career to a new level with practices of the python pro you ll learn to design professional level clean easily maintainable software at scale using the incredibly popular programming language python you ll find easy to grok examples that use pseudocode and python to introduce software development best practices along with dozens of instantly useful techniques that will help you code like a pro purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications about the technology professional quality code does more than just run without bugs it s clean readable and easy to maintain to step up from a capable python coder to a professional developer you need to learn industry standards for coding style application design and development process that s where this book is indispensable about the book practices of the python pro teaches you to design and write professional quality software that s understandable maintainable and extensible dane hillard is a python pro who has helped many dozens of developers make this step and he knows what it takes with helpful examples and exercises he teaches you when why and how to modularize your code how to improve quality by reducing complexity and much more embrace these core principles and your code will become easier for you and others to read maintain and reuse what s inside organizing large python projects achieving the right levels of abstraction writing clean reusable code inheritance and composition considerations for testing and performance about the reader for readers familiar with the basics of python or another oo language about the author dane hillard has spent the majority of his development career using python to build web applications table of contents part 1 why it all matters 1 the bigger picture part 2 foundations of design 2 separation of concerns 3 abstraction and encapsulation 4 designing for high performance 5 testing your software part 3 nailing down large systems 6 separation of concerns in practice 7 extensibility and flexibility 8 the rules and exceptions of inheritance 9 keeping things lightweight 10 achieving loose coupling part 4 what s next 11 onward and upward

python oss mecab elasticsearch word2vec bert

learning knowledge and being introduced to libraries you'll quickly get to grips with serious real world projects on datasets using modeling and creating recommendation systems with building machine learning systems with python you'll gain the tools and understanding required to build your own systems all tailored to solve real world data analysis problems by the end of this book you will be able to build machine learning systems using techniques and methodologies such as classification sentiment analysis computer vision reinforcement learning and neural networks what you will learn build a classification system that can be applied to text images and sound employ amazon services aws to run analysis on the cloud solve problems related to regression using scikit learn and tensorflow recommend products to users based on their past purchases understand different ways to apply deep neural networks on structured data address recent developments in the field of computer vision and reinforcement learning who this book is for building machine learning systems with python is for data scientists machine learning developers and python developers who want to learn how to build increasingly complex machine learning systems you will use python's machine learning capabilities to develop effective solutions prior knowledge of python programming is expected if you are a python beginner who is looking to learn the language through interesting projects this book is for you a basic knowledge of programming and statistics is beneficial to get the most out of the book a practical guide this book provides step by step instructions for developing multimedia applications showcasing real world examples throughout this book is for python developers who want to dip their toes into working with images animations audio and video processing using python you're worth it python is a high level programming language it is an interpreted not compiled language also known as a scripting language it is mostly used as a tool for performing ad hoc programming tasks such as task automation and data analysis it has a strong set of tools for mathematical and scientific computing and is frequently used by researchers this is a great personalized unique python programming notebook journal also is a perfect gift any time of year including birthday christmas friendship gifts and a journal for mothers this notebook is easy to carry around and perfect for the desk it's time to inspire someone you love today python paper journals never need to be charged and no batteries are required you only need your thoughts and dreams and something to write with this python notebook can be used for design notes for school project management to do lists personal journal creative writing appointment reminders it's also a worthy receptacle for all of your brightest ideas python notebook features pages 120 one full year layout lined journal dimensions 6 x 9 15 24 x 22 86 cm interior white paper cover what will feel amazing in your hands perfect for gift giving please feel free to browse our wide range of notebooks and find the best suited for your needs made by samantha miller programmer developer and coder notebooks a problem focused guide for tackling industrial machine learning issues with methods and frameworks chosen by experts key features popular techniques for problem formulation data collection and data cleaning in machine learning comprehensive and useful machine learning tools such as mlflow streamlit and many more covers numerous machine learning libraries including tensorflow fastai scikit learn pandas and numpy description this book discusses how to apply machine learning to real world problems by utilizing real world data in this book you will investigate data sources become acquainted with data pipelines and practice how machine learning works through numerous examples and case studies the book begins with high level concepts and implementation with code and progresses towards the real world of ml systems it briefly discusses various concepts of statistics and linear algebra you will learn how to formulate a problem collect data

build a model and tune it you will learn about use cases for data analytics computer vision and natural language processing you will also explore nonlinear architecture thus enabling you to build models with multiple inputs and outputs you will get trained on creating a machine learning profile various machine learning libraries statistics and fast api throughout the book you will use python to experiment with machine learning libraries such as tensorflow scikit learn spacy and fastai the book will help train our models on both kaggle and our datasets what you will learn construct a machine learning problem evaluate the feasibility and gather and clean data learn to explore data first select and train machine learning models fine tune the chosen model deploy and monitor it in production discover popular models for data analytics computer vision and natural language processing create a machine learning profile and contribute to the community who this book is for this book caters to beginners in machine learning software engineers and students who want to gain a good understanding of machine learning concepts and create production ready ml systems this book assumes you have a beginner level understanding of python table of contents 1 introduction to machine learning 2 problem formulation in machine learning 3 data acquisition and cleaning 4 exploratory data analysis 5 model building and tuning 6 taking our model into production 7 data analytics use case 8 building a custom image classifier from scratch 9 building a news summarization app using transformers 10 multiple inputs and multiple output models 11 contributing to the community 12 creating your project 13 crash course in numpy matplotlib and pandas 14 crash course in linear algebra and statistics 15 crash course in fastapi this seven volume set lncs 14054 14060 constitutes the proceedings of the 25th international conference hci international 2023 in copenhagen denmark in july 2023 for the hccii 2023 proceedings a total of 1578 papers and 396 posters was carefully reviewed and selected from 7472 submissions additionally 267 papers and 133 posters are included in the volumes of the proceedings published after the conference as late breaking work these papers were organized in the following topical sections hci design and user experience cognitive engineering and augmented cognition cultural issues in design technologies for the aging population accessibility and design for all designing for health and wellbeing information design visualization decision making and collaboration social media creative industries and cultural digital experiences digital human modeling ergonomics and safety hci in automated vehicles and intelligent transportation sustainable green smart cities and smart industry extended reality interactions gaming and gamification experiences interacting with artificial intelligence security privacy trust and ethics learning technologies and learning experiences ecommerce digital marketing and efinance unleash the power of python 3 objects about this book stop writing scripts and start architecting programs learn the latest python syntax and libraries a practical hands on tutorial that teaches you all about abstract design patterns and how to implement them in python 3 who this book is for if you re new to object oriented programming techniques or if you have basic python skills and wish to learn in depth how and when to correctly apply object oriented programming in python to design software this is the book for you what you will learn implement objects in python by creating classes and defining methods separate related objects into a taxonomy of classes and describe the properties and behaviors of those objects via the class interface extend class functionality using inheritance understand when to use object oriented features and more importantly when not to use them discover what design patterns are and why they are different in python uncover the simplicity of unit testing and why it s so important in python grasp common concurrency techniques and pitfalls in python 3 exploit object oriented programming in key python technologies such as kivy and

django object oriented programming concurrently with asyncio in detail python 3 is more versatile and easier to use than ever it runs on all major platforms in a huge array of use cases coding in python minimizes development time and increases productivity in comparison to other languages clean maintainable code is easy to both read and write using python s clear concise syntax object oriented programming is a popular design paradigm in which data and behaviors are encapsulated in such a way that they can be manipulated together many modern programming languages utilize the powerful concepts behind object oriented programming and python is no exception starting with a detailed analysis of object oriented analysis and design you will use the python programming language to clearly grasp key concepts from the object oriented paradigm this book fully explains classes data encapsulation inheritance polymorphism abstraction and exceptions with an emphasis on when you can use each principle to develop well designed software you ll get an in depth analysis of many common object oriented design patterns that are more suitable to python s unique style this book will not just teach python syntax but will also build your confidence in how to program you will also learn how to create maintainable applications by studying higher level design patterns following this you ll learn the complexities of string and file manipulation and how python distinguishes between binary and textual data not one but two very powerful automated testing systems will be introduced in the book after you discover the joy of unit testing and just how easy it can be you ll study higher level libraries such as database connectors and gui toolkits and learn how they uniquely apply object oriented principles you ll learn how these principles will allow you to make greater use of key members of the python eco system such as django and kivy this new edition includes all the topics that made python 3 object oriented programming an instant packt classic it s also packed with updated content to reflect recent changes in the core python library and covers modern third party packages that were not available on the python 3 platform when the book was first published style and approach throughout the book you will learn key object oriented programming techniques demonstrated by comprehensive case studies in the context of a larger project

Data Science Fundamentals for Python and MongoDB

2018-05-10

build the foundational data science skills necessary to work with and better understand complex data science algorithms this example driven book provides complete python coding examples to complement and clarify data science concepts and enrich the learning experience coding examples include visualizations whenever appropriate the book is a necessary precursor to applying and implementing machine learning algorithms the book is self contained all of the math statistics stochastic and programming skills required to master the content are covered in depth knowledge of object oriented programming isn t required because complete examples are provided and explained data science fundamentals with python and mongodb is an excellent starting point for those interested in pursuing a career in data science like any science the fundamentals of data science are a prerequisite to competency without proficiency in mathematics statistics data manipulation and coding the path to success is rocky at best the coding examples in this book are concise accurate and complete and perfectly complement the data science concepts introduced what you ll learn prepare for a career in data science work with complex data structures in python simulate with monte carlo and stochastic algorithms apply linear algebra using vectors and matrices utilize complex algorithms such as gradient descent and principal component analysis wrangle cleanse visualize and problem solve with data use mongodb and json to work with data who this book is for the novice yearning to break into the data science world and the enthusiast looking to enrich deepen and develop data science skills through mastering the underlying fundamentals that are sometimes skipped over in the rush to be productive some knowledge of object oriented programming will make learning easier

The Pig in the Python and Other Tales

1982

please note that the content of this book primarily consists of articles available from wikipedia or other free sources online pages 34 chapters python python syntax and semantics mobile application development history of python list of python software eclipse guido van rossum numpy server gateway interface python for s60 core python programming mnemosyne cython mod python schooltool pydev docstring global interpreter lock rur ple clyther flask construct spyce pyrex guido van robot python license python software foundation license skolesys application view controller python server pages pydoc python package index the python papers anthology python package manager pycharm activepython python remote objects pyusb logix excerpt python is a general purpose high level programming language whose design philosophy emphasizes code readability python claims to remarkable power with very clear syntax and its standard library is large and comprehensive its use of indentation for block delimiters is unique among popular programming languages

2023-05-15

12/30

operations research applications and algorithms

python supports multiple programming paradigms primarily but not limited to object oriented imperative and to a lesser extent functional programming styles it features a fully dynamic type system and automatic memory management similar to that of scheme ruby perl and tcl like other dynamic languages python is often used as a scripting language but is also used in a wide range of non scripting contexts using third party tools python code can be packaged into standalone executable programs python interpreters are available for many operating systems the reference implementation of python cpython is free and open source software and has a community based development model as do all or nearly all of its alternative implementations cpython is managed by the non profit python software foundation guido van rossum the creator of pythonpython was conceived in the

Python Programming Language

2013-09

leverage the power of python design patterns to solve real world problems in software architecture and design about this book understand the structural creational and behavioral python design patterns get to know the context and application of design patterns to solve real world problems in software architecture design and application development get practical exposure through sample implementations in python v3 5 for the design patterns featured who this book is for this book is for software architects and python application developers who are passionate about software design it will be very useful to engineers with beginner level proficiency in python and who love to work with python 3 5 what you will learn enhance your skills to create better software architecture understand proven solutions to commonly occurring design issues explore the design principles that form the basis of software design such as loose coupling the hollywood principle and the open close principle among others delve into the object oriented programming concepts and find out how they are used in software applications develop an understanding of creational design patterns and the different object creation methods that help you solve issues in software development use structural design patterns and find out how objects and classes interact to build larger applications focus on the interaction between objects with the command and observer patterns improve the productivity and code base of your application using python design patterns in detail with the increasing focus on optimized software architecture and design it is important that software architects think about optimizations in object creation code structure and interaction between objects at the architecture or design level this makes sure that the cost of software maintenance is low and code can be easily reused or is adaptable to change the key to this is reusability and low maintenance in design patterns building on the success of the previous edition learning python design patterns second edition will help you implement real world scenarios with python s latest release python v3 5 we start by introducing design patterns from the python perspective as you progress through the book you will learn about singleton patterns factory patterns and facade patterns in detail after this we ll look at how to control object access with proxy patterns it also covers observer patterns command patterns and compound patterns by the end of the book you will have enhanced your professional abilities in software architecture design

and development style and approach this is an easy to follow guide to design patterns with hands on examples of real world scenarios and their implementation in python v3 5 each topic is explained and placed in context and for the more inquisitive there are more details on the concepts used

Learning Python Design Patterns

2016-02-15

ensure your code is sleek efficient and elegant by mastering powerful python design patterns about this book learn all about abstract design patterns and how to implement them in python 3 understand the structural creational and behavioral python design patterns get to know the context and application of design patterns to solve real world problems in software architecture design and application development discover how to simplify design pattern implementation using the power of python 3 who this book is for if you have basic python skills and wish to learn in depth how to correctly apply appropriate design patterns this course is tailor made for you what you will learn discover what design patterns are and how to apply them to writing python implement objects in python by creating classes and defining methods separate related objects into a taxonomy of classes and describe the properties and behaviors of those objects via the class interface understand when to use object oriented features and more importantly when not to use them get to know proven solutions to common design issues explore the design principles that form the basis of software design such as loose coupling the hollywood principle and the open close principle among others use structural design patterns and find out how objects and classes interact to build larger applications improve the productivity and code base of your application using python design patterns secure an interface using the proxy pattern in detail python is an object oriented scripting language that is used in everything from data science to web development known for its simplicity python increases productivity and minimizes development time through applying essential software engineering design patterns to python python code becomes even more efficient and reusable from project to project this learning path takes you through every traditional and advanced design pattern best applied to python code building your skills in writing exceptional python divided into three distinct modules you ll go from foundational to advanced concepts by following a series of practical tutorials start with the bedrock of python programming the object oriented paradigm rethink the way you work with python as you work through the python data structures and object oriented techniques essential to modern python programming build your confidence as you learn python syntax and how to use oop principles with python tools such as django and kivy in the second module run through the most common and most useful design patterns from a python perspective progress through singleton patterns factory patterns facade patterns and more all with detailed hands on guidance enhance your professional abilities in software architecture design and development in the final module run through the more complex and less common design patterns discovering how to apply them to python coding with the help of real world examples get to grips with the best practices of writing python as well as creating systems architecture and troubleshooting issues this

learning path combines some of the best that packt has to offer in one complete curated package it includes content from the following packt products python 3 object oriented programming second edition by dusty phillips learning python design patterns second edition by chetan giridhar mastering python design patterns by sakis kasampalisstyle and approachadvance your python code through three distinct modules that each build on preceding content get the complete coverage of python design patterns you need to write elegant and efficient code that s reusable and powerful

Python: Master the Art of Design Patterns

2016-09-30

in the vast landscape of programming languages python stands out as a versatile and powerful tool that has gained immense popularity in recent years with its clean syntax ease of use and extensive libraries python has become the go to choice for beginners and experienced developers alike this chapter serves as a comprehensive introduction to the fundamental concepts and building blocks of python programming whether you are an aspiring programmer taking your first steps into the world of coding or an experienced developer looking to expand your skillset this chapter will provide you with a solid foundation in python we will explore the key concepts that underpin the language and equip you with the essential knowledge needed to tackle a wide range of programming tasks we will start by understanding the basic structure of a python program and how to write and execute your first hello world program from there we will delve into variables data types and operators which form the backbone of any programming language you will learn how to manipulate and store data effectively enabling you to solve real world problems with elegance and efficiency throughout this chapter we will provide practical examples exercises and tips to reinforce your understanding of python basics by the end you will have a solid grasp of the language s syntax core concepts and best practices setting you on a path to becoming a proficient python programmer

Python Programming

2023-08-01

leverage the power of python design patterns to solve real world problems in software architecture and designabout this book understand the structural creational and behavioral python design patterns get to know the context and application of design patterns to solve real world problems in software architecture design and application development get practical exposure through sample implementations in python v3 5 for the design patterns featuredwho this book is forthis book is for software architects and python application developers who are passionate about software design it will be very useful to engineers with beginner level proficiency in python and who love to work

2023-05-15

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operations research applications and
algorithms

with python 3 5 what you will learn enhance your skills to create better software architecture understand proven solutions to commonly occurring design issues explore the design principles that form the basis of software design such as loose coupling the hollywood principle and the open close principle among others delve into the object oriented programming concepts and find out how they are used in software applications develop an understanding of creational design patterns and the different object creation methods that help you solve issues in software development use structural design patterns and find out how objects and classes interact to build larger applications focus on the interaction between objects with the command and observer patterns improve the productivity and code base of your application using python design patterns in detail with the increasing focus on optimized software architecture and design it is important that software architects think about optimizations in object creation code structure and interaction between objects at the architecture or design level this makes sure that the cost of software maintenance is low and code can be easily reused or is adaptable to change the key to this is reusability and low maintenance in design patterns building on the success of the previous edition learning python design patterns second edition will help you implement real world scenarios with python s latest release python v3 5 we start by introducing design patterns from the python perspective as you progress through the book you will learn about singleton patterns factory patterns and facade patterns in detail after this we ll look at how to control object access with proxy patterns it also covers observer patterns command patterns and compound patterns by the end of the book you will have enhanced your professional abilities in software architecture design and development style and approach this is an easy to follow guide to design patterns with hands on examples of real world scenarios and their implementation in python v3 5 each topic is explained and placed in context and for the more inquisitive there are more details on the concepts used

Learning Python Design Patterns - Second Edition

2016-02-15

aspiring data science professionals can learn the scikit learn library along with the fundamentals of machine learning with this book the book combines the anaconda python distribution with the popular scikit learn library to demonstrate a wide range of supervised and unsupervised machine learning algorithms care is taken to walk you through the principles of machine learning through clear examples written in python that you can try out and experiment with at home on your own machine all applied math and programming skills required to master the content are covered in depth knowledge of object oriented programming is not required as working and complete examples are provided and explained coding examples are in depth and complex when necessary they are also concise accurate and complete and complement the machine learning concepts introduced working the examples helps to build the skills necessary to understand and apply complex machine learning algorithms hands on scikit learn for machine learning applications is an excellent starting point for those pursuing a career in machine learning students of this book will learn the fundamentals that are a prerequisite to

2023-05-15

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algorithms

competency readers will be exposed to the anaconda distribution of python that is designed specifically for data science professionals and will build skills in the popular scikit learn library that underlies many machine learning applications in the world of python what you ll learnwork with simple and complex datasets common to scikit learn manipulate data into vectors and matrices for algorithmic processing become familiar with the anaconda distribution used in data scienceapply machine learning with classifiers regressors and dimensionality reduction tune algorithms and find the best algorithms for each dataset load data from and save to csv json numpy and pandas formats who this book is for the aspiring data scientist yearning to break into machine learning through mastering the underlying fundamentals that are sometimes skipped over in the rush to be productive some knowledge of object oriented programming and very basic applied linear algebra will make learning easier although anyone can benefit from this book

Hands-on Scikit-Learn for Machine Learning Applications

2019-11-16

hans langtangen explains how to develop tailored flexible and efficient working environments built from small programs written in python the focus is on examples and applications of relevance to computational science

Python Scripting for Computational Science

2011

gain a fundamental understanding of python s syntax and features with the second edition of beginning python an up to date introduction and practical reference covering a wide array of python related programming topics including addressing language internals database integration network programming and web services you ll be guided by sound development principles ten accompanying projects will ensure you can get your hands dirty in no time updated to reflect the latest in python programming paradigms and several of the most crucial features found in python 3 0 otherwise known as python 3000 advanced topics such as extending python and packaging distributing python applications are also covered

Beginning Python

2010-10-22

david schoenbrun examines groupwork the imaginative labor that people do to constitute themselves as communities in an iconic and influential region in east africa the names of the python supplements and redirects current debates about ethnicity in ex colonial africa and beyond

The Names of the Python

2021-05-11

introduction to computational models with python explains how to implement computational models using the flexible and easy to use python programming language the book uses the python programming language interpreter and several packages from the huge python library that improve the performance of numerical computing such as the numpy and scipy m

Introduction to Computational Models with Python

2015-08-28

theaimofthisbookistoteachcomputerprogrammingusingexamples from mathematics and the natural sciences we have chosen to use the python programming language because it combines remarkable power with very clean simple and compact syntax python is easy to learn and very well suited for an introduction to computer programming python is also quite similar to matlab and a good language for doing mathematical computing it is easy to combine python with compiled languages like fortran c and c which are widely used languages forscienti ccomputations aseamlessintegrationofpythonwithjava is o ered by a special version of python called jython the examples in this book integrate programming with appli tions to mathematics physics biology and nance the reader is pected to have knowledge of basic one variable calculus as taught in mathematics intensive programs in high schools it is certainly an vantage to take a university calculus course in parallel preferably c taining both classical and numerical aspects of calculus although not strictly required a background in high school physics makes many of the examples more meaningful

Our Paper

1894

python algorithms explains the python approach to algorithm analysis and design written by magnus lie hetland author of beginning

2023-05-15

18/30

operations research applications and
algorithms

python this book is sharply focused on classical algorithms but it also gives a solid understanding of fundamental algorithmic problem solving techniques the book deals with some of the most important and challenging areas of programming and computer science but in a highly pedagogic and readable manner the book covers both algorithmic theory and programming practice demonstrating how theory is reflected in real python programs well known algorithms and data structures that are built into the python language are explained and the user is shown how to implement and evaluate others himself

A Primer on Scientific Programming with Python

2010-02-04

description this book gives you an opportunity to check your proficiency in python by answering the questions in this book the programs commands presented in this book are executed using python version 3.5.2 the questions are categorized based on various facts of programming in python the aim is to cover the topics in depth detailed explanation of each question helps even a novice learner salient features more than 400 questions for testing skills in python topics covered in sequence for novice readers getting started section gives a good start and overview questions are represented topic wise so that a python programmer can directly go for testing a particular topic multiple choice questions with true false options also questions based on output help to learn the programming skills and various in built functions in python better understanding through detailed explanation solved model test papers help to learn theory questionstable of contents chapter 1 input outputchapter 2 operators and expressionschapter 3 decision control statementschapter 4 functionschapter 5 loopschapter 6 listschapter 7 stringschapter 8 sets and dictionarieschapter 9 tupleschapter 10 classeschapter 11 fileschapter 12 graphicschapter 13 in built functionschapter 14 miscellaneousappendix a python keywords and their useappendix b operators in python and their precedence appendix c libraries in python and common functionsbibliographymodel test paper 1 solved model test paper 2 solved model test paper 3 unsolved model test paper 4 unsolved

Python Algorithms

2011-09-14

as part of the best selling pocket primer series this book is an effort to give programmers sufficient knowledge of python 3 to be able to work on their own projects in addition to covering all of the basic concepts the book features a chapter on pygame which allows a programmer to handle graphics mouse and keyboard interaction and play sounds and videos the demonstration example for that chapter is a lunar lander game another feature is the chapter on communication which makes use of one of python s best features a collection of

modules for sending and receiving email communicating between computers and working with twitter and pages companion files that accompany this book contain all of the code examples as complete working programs this means that there is no need to key them in so they can be executed and perhaps modified or expanded features features a chapter on pygame which allows a programmer to handle graphics mouse keyboard interaction and play sounds and videos explores communication in depth making use of one of python's best features a collection of modules for sending and receiving email communicating between computers and working with twitter and pages companion files contain all of the code examples as complete working programs on the companion files also available from the publisher for downloading by emailing info@merclearning.com source code samples all images from the text including 4 color

TEST YOUR SKILLS IN PYTHON LANGUAGE

2018-06-02

this book can serve as textbook for post graduates and reference for any computer graduate it will also provide easy reference for computer professionals who wants to begin their career in machine learning using python this book is precisely organized into twelve chapters each chapter has been carefully developed with the help of several implemented concepts dedicated efforts have been put in to ensure that every concept of python discussed in this book is explained with help of relevant commands and screenshots of the outputs have been included chapter 1 focuses on development environment offered by google colab chapters 2 through 4 cover the python language fundamentals focusing on control and iterative statements operators along with their applications in basic programs python employs blended programming paradigm in which it is procedural object oriented and functional the best part of all programming languages reside in a single platform chapter 5 focuses on functions in python with a special emphasis on lambda functions advanced python programming concepts such as iterators closures decorators generators are covered at depth in chapter 6 and 7 a good and in depth knowledge of exception handling enables in writing a reliable and robust code to cater to this need chapter 8 unleashes the salient features of exception handling in python data persistence through file handling is covered in chapter 9 due to the wide application of regular expressions in pattern matching chapter 10 is fully devoted to understanding of regular expression in python different types of common errors that might creep in during the execution of a python program are summarized in chapter 11 final chapter 12 is devoted to implementation of object oriented concepts in python the case study based on object oriented concept is discussed at depth and implemented in appendix a

Python 3

2017-04-13

the first section of the via veneto papers is an evocation of the rome of la dolce vita of the early stages in the writing and the realizing of the film itself and through a series of brilliant little sketches a commemoration of the aging poet vincenzo cardarelli skeptical survivor from an earlier time representative of an altogether different life occasional notebooks comprises the second section and the third section is an interview given by flaiano shortly before his death

Conceptualizing Python in Google COLAB

2023-02-14

summary professional developers know the many benefits of writing application code that s clean well organized and easy to maintain by learning and following established patterns and best practices you can take your code and your career to a new level with practices of the python pro you ll learn to design professional level clean easily maintainable software at scale using the incredibly popular programming language python you ll find easy to grok examples that use pseudocode and python to introduce software development best practices along with dozens of instantly useful techniques that will help you code like a pro purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications about the technology professional quality code does more than just run without bugs it s clean readable and easy to maintain to step up from a capable python coder to a professional developer you need to learn industry standards for coding style application design and development process that s where this book is indispensable about the book practices of the python pro teaches you to design and write professional quality software that s understandable maintainable and extensible dane hillard is a python pro who has helped many dozens of developers make this step and he knows what it takes with helpful examples and exercises he teaches you when why and how to modularize your code how to improve quality by reducing complexity and much more embrace these core principles and your code will become easier for you and others to read maintain and reuse what s inside organizing large python projects achieving the right levels of abstraction writing clean reusable code inheritance and composition considerations for testing and performance about the reader for readers familiar with the basics of python or another oo language about the author dane hillard has spent the majority of his development career using python to build web applications table of contents part 1 why it all matters 1 the bigger picture part 2 foundations of design 2 separation of concerns 3 abstraction and encapsulation 4 designing for high performance 5 testing your software part 3 nailing down large systems 6 separation of concerns in practice 7 extensibility and flexibility 8 the rules and exceptions of inheritance 9 keeping things lightweight 10 achieving loose coupling part 4 what s next 11 onward and upward

2023-05-15

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operations research applications and algorithms

The Via Veneto Papers

1992

python, keras, tensorflow, bert, word2vec, elasticsearch, watson, oss, mecab, 1987, 1993, 2013, 2016, 2015, 2019, champion

Practices of the Python Pro

2019-12-22

python, keras, tensorflow, part 1

Creationism and Contrived Science

2009

python, keras, tensorflow, part 1, 2, 3, 4, 5, 6, 7

Python 500 Examples

2020-10-15

python 500 examples python3 9 0

Python Machine Learning

2019-06-25

get more from your data by creating practical machine learning systems with python key features develop your own python based machine learning system discover how python offers multiple algorithms for modern machine learning systems explore key python machine learning libraries to implement in your projects book description machine learning allows systems to learn things without being explicitly programmed to do so python is one of the most popular languages used to develop machine learning applications which take advantage of its extensive library support this third edition of building machine learning systems with python addresses recent developments in the field by covering the most used datasets and libraries to help you build practical machine learning systems using machine learning to gain deeper insights from data is a key skill required by modern application developers and analysts alike python being a dynamic language allows for fast exploration and experimentation this book shows you exactly how to find patterns in your raw data you will start by brushing up on your python machine learning knowledge and being introduced to libraries you'll quickly get to grips with serious real world projects on datasets using modeling and creating recommendation systems with building machine learning systems with python you'll gain the tools and understanding required to build your own systems all tailored to solve real world data analysis problems by the end of this book you will be able to build machine learning systems using techniques and methodologies such as classification sentiment analysis computer vision reinforcement learning and neural networks what you will learn build a classification system that can be applied to text images and sound employ amazon services aws to run analysis on the cloud solve problems related to regression using scikit learn and tensorflow recommend products to users based on their past purchases understand different ways to apply deep neural networks on structured data address recent developments in the field of computer vision and reinforcement learning who this book is for building machine learning systems with python is for data scientists machine learning developers and python developers who want to learn how to build increasingly complex machine learning systems you will use python's machine learning capabilities to develop effective solutions prior knowledge of python programming is expected

Beginning Python

2008-10-21

if you are a python beginner who is looking to learn the language through interesting projects this book is for you a basic knowledge of programming and statistics is beneficial to get the most out of the book

Original Unpublished Papers Illustrative of the Life of Sir Peter Paul Rubens

1859

a practical guide this book provides step by step instructions for developing multimedia applications showcasing real world examples throughout this book is for python developers who want to dip their toes into working with images animations audio and video processing using python

Collected papers

1949

you re worth it python is a high level programming language it is an interpreted not compiled language also known as a scripting language it is mostly used as a tool for performing ad hoc programming tasks such as task automation and data analysis it has a strong set of tools for mathematical and scientific computing and is frequently used by researchers this is a great personalized unique python programming notebook journal also is a perfect gift any time of year including birthday christmas friendship gifts and a journal for mothers this notebook is easy to carry around and perfect for the desk it s time to inspire someone you love today python paper journals never need to be charged and no batteries are required you only need your thoughts and dreams and something to write with this python notebook can be used for design notes for school project management to do lists personal journal creative writing appointment reminders it s also a worthy receptacle for all of your brightest ideas python notebook features pages 120 one full year layout lined journal dimensions 6 x 9 15 24 x 22 86 cm interior white paper cover what will feel amazing in your hands perfect for gift giving please feel free to browse our wide range of notebooks and find the best suited for your needs made by samantha miller programmer developer and coder notebooks

The Boy's Own Paper

1882

a problem focused guide for tackling industrial machine learning issues with methods and frameworks chosen by experts key features popular techniques for problem formulation data collection and data cleaning in machine learning comprehensive and useful machine learning tools such as mlflow streamlit and many more covers numerous machine learning libraries including tensorflow fastai scikit learn pandas and numpy description this book discusses how to apply machine learning to real world problems by utilizing real world data in this book you will investigate data sources become acquainted with data pipelines and practice how machine learning works through numerous examples and case studies the book begins with high level concepts and implementation with code and progresses towards the real world of ml systems it briefly discusses various concepts of statistics and linear algebra you will learn how to formulate a problem collect data build a model and tune it you will learn about use cases for data analytics computer vision and natural language processing you will also explore nonlinear architecture thus enabling you to build models with multiple inputs and outputs you will get trained on creating a machine learning profile various machine learning libraries statistics and fast api throughout the book you will use python to experiment with machine learning libraries such as tensorflow scikit learn spacy and fastai the book will help train our models on both kaggle and our datasets what you will learn construct a machine learning problem evaluate the feasibility and gather and clean data learn to explore data first select and train machine learning models fine tune the chosen model deploy and monitor it in production discover popular models for data analytics computer vision and natural language processing create a machine learning profile and contribute to the community who this book is for this book caters to beginners in machine learning software engineers and students who want to gain a good understanding of machine learning concepts and create production ready ml systems this book assumes you have a beginner level understanding of python table of contents 1 introduction to machine learning 2 problem formulation in machine learning 3 data acquisition and cleaning 4 exploratory data analysis 5 model building and tuning 6 taking our model into production 7 data analytics use case 8 building a custom image classifier from scratch 9 building a news summarization app using transformers 10 multiple inputs and multiple output models 11 contributing to the community 12 creating your project 13 crash course in numpy matplotlib and pandas 14 crash course in linear algebra and statistics 15 crash course in fastapi

Open Source Systems: Grounding Research

2011-10-12

this seven volume set Incs 14054 14060 constitutes the proceedings of the 25th international conference hci international 2023 in
2023-05-15 **26/30** operations research applications and algorithms

copenhagen denmark in july 2023 for the hccii 2023 proceedings a total of 1578 papers and 396 posters was carefully reviewed and selected from 7472 submissions additionally 267 papers and 133 posters are included in the volumes of the proceedings published after the conference as late breaking work these papers were organized in the following topical sections hci design and user experience cognitive engineering and augmented cognition cultural issues in design technologies for the aging population accessibility and design for all designing for health and wellbeing information design visualization decision making and collaboration social media creative industries and cultural digital experiences digital human modeling ergonomics and safety hci in automated vehicles and intelligent transportation sustainable green smart cities and smart industry extended reality interactions gaming and gamification experiences interacting with artificial intelligence security privacy trust and ethics learning technologies and learning experiences ecommerce digital marketing and efinance

Python3

2021-03

unleash the power of python 3 objects about this book stop writing scripts and start architecting programs learn the latest python syntax and libraries a practical hands on tutorial that teaches you all about abstract design patterns and how to implement them in python 3 who this book is for if you re new to object oriented programming techniques or if you have basic python skills and wish to learn in depth how and when to correctly apply object oriented programming in python to design software this is the book for you what you will learn implement objects in python by creating classes and defining methods separate related objects into a taxonomy of classes and describe the properties and behaviors of those objects via the class interface extend class functionality using inheritance understand when to use object oriented features and more importantly when not to use them discover what design patterns are and why they are different in python uncover the simplicity of unit testing and why it s so important in python grasp common concurrency techniques and pitfalls in python 3 exploit object oriented programming in key python technologies such as kivy and django object oriented programming concurrently with asyncio in detail python 3 is more versatile and easier to use than ever it runs on all major platforms in a huge array of use cases coding in python minimizes development time and increases productivity in comparison to other languages clean maintainable code is easy to both read and write using python s clear concise syntax object oriented programming is a popular design paradigm in which data and behaviors are encapsulated in such a way that they can be manipulated together many modern programming languages utilize the powerful concepts behind object oriented programming and python is no exception starting with a detailed analysis of object oriented analysis and design you will use the python programming language to clearly grasp key concepts from the object oriented paradigm this book fully explains classes data encapsulation inheritance polymorphism abstraction and exceptions with an emphasis on when you can use each principle to develop well designed software you ll get an in depth analysis of many common object oriented design

2023-05-15

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operations research applications and
algorithms

patterns that are more suitable to python's unique style this book will not just teach python syntax but will also build your confidence in how to program you will also learn how to create maintainable applications by studying higher level design patterns following this you'll learn the complexities of string and file manipulation and how python distinguishes between binary and textual data not one but two very powerful automated testing systems will be introduced in the book after you discover the joy of unit testing and just how easy it can be you'll study higher level libraries such as database connectors and gui toolkits and learn how they uniquely apply object oriented principles you'll learn how these principles will allow you to make greater use of key members of the python ecosystem such as django and kivy this new edition includes all the topics that made python 3 object oriented programming an instant packt classic it's also packed with updated content to reflect recent changes in the core python library and covers modern third party packages that were not available on the python 3 platform when the book was first published style and approach throughout the book you will learn key object oriented programming techniques demonstrated by comprehensive case studies in the context of a larger project

Building Machine Learning Systems with Python

2018-07-31

Python for Secret Agents

2014-08-26

Snakes on a spaceship—An overview of python in space physics

2023-07-20

Python Multimedia

2010-08-13

Python Programming

2021-02-10

Applied Machine Learning Solutions with Python

2021-08-31

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2023-11-24

Python 3 Object-oriented Programming

2015-08-20

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