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using clear explanations and step by step tutorial lessons you will learn the underlying mechanics of the python language the tools in its ecosystem tips and tricks and much more

computer programing is the vital field for the electronics information and computer students programming with python is trending topics nowadays its application has been increasing day by day this book includes easy and readable theories with more examples it also focusses on python projects computer programming is the core subject for undergraduate students with python computer programming is not a big deal this book is for beginners and intermediate students who wants to learn basics of python programming as well as data analysis and visualization in each chapter students will find necessary theories with relevant and practical examples the concepts and examples used in this book are the inspiration from the different sources and authors the whole text has been divided into

seven chapters **1** introduction to python **2** data structure and conditional statements **3** loops and functions **4** object oriented programming in python **5** plotting graphs and charts in python **6** data analysis using numpy and pandas **7** mini projects in python

learn practical uses for some of the hottest tech applications trending among technology professionals we are living in an era of digital revolution on the horizon many emerging digital technologies are being developed at a breathtaking speed whether we like it or not whether we are ready or not digital technologies are going to penetrate more and more deeper and deeper into every aspect of our lives this is going to fundamentally change how we live how we work and how we socialize java as a modern high level programming language is an excellent tool for helping us to learn these digital technologies as well as to develop digital applications such as iot ai cybersecurity blockchain and more practical java programming uses java as a tool to help you learn these new digital technologies and to be better prepared for the future changes gives you a brief overview for getting started with java programming dives into how you can apply your new knowledge to some of the biggest trending applications today helps you understand how to program java to interact with operating systems networking and mobile applications shows you how java can be used in trending tech applications such as iot internet of things ai artificial intelligence cybersecurity and blockchain get ready to find out firsthand how java can be used for connected home devices healthcare the cloud and all the hottest tech applications

users are increasingly interacting with machine learning ml based curation systems youtube and facebook two of the most visited websites worldwide utilize such systems to curate content for billions of users contemporary challenges such as fake news filter bubbles and biased predictions make the understanding of ml based curation systems an important and timely concern despite their political social and cultural importance practitioners framing of machine learning and users understanding of ml based curation systems have not been investigated systematically this is problematic since machine learning as a novel programming paradigm in which a mapping between input and output is inferred from data poses a variety of open research questions regarding users understanding the first part of this thesis provides the first in depth investigation of ml based curation systems as socio technical systems the second part of the thesis contributes recommendations on how ml based curation systems can and should be explained and audited the first part analyses practitioners framing of ml by examining how the term machine learning ml

applications and ml algorithms are framed in tutorials the thesis also investigates the beliefs that users have about youtube and introduces a user belief framework of ml based curation systems furthermore it demonstrates how limited users capabilities for providing input data for ml based curation systems are the second part evaluates different explanations of ml based systems this evaluation uncovered an explanatory gap between what is available to explain ml based curation systems and what users need to understand such systems informed by this explanatory gap the second part of this thesis demonstrates that audits of ml systems can be an important alternative to explanations this demonstration of audits also uncovers a popularity bias enacted by youtube s ml based curation system based on these findings the thesis recommends performing audits to ensure that ml based systems act in the public s interest keywords algorithmic bias algorithmic experience algorithmic transparency algorithms fake news human centered machine learning human computer interaction machine learning artificial intelligence recommender systems social media trust user beliefs user experience video recommendations youtube

through a series of recent breakthroughs deep learning has boosted the entire field of machine learning by using concrete examples minimal theory and two production ready python frameworks scikit learn helps you gain an intuitive understanding of the concepts and tools for building intelligent systems you ll learn a range of techniques starting with simple linear regression and progressing to deep neural networks use scikit learn to track an example machine learning project end to end explore several training models including support vector machines decision trees random forests and ensemble methods learn techniques for training and scaling deep neural nets

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chapter **3** python main function chapter **4** variables chapter **5** strings chapter **6** tuple chapter **7** python dictionary chapter **8** operators chapter **9** functions chapter **10** if statement chapter **11** loops chapter **12** class objects chapter **13** regular expressions chapter **14** date time and datetime classes in python chapter **15** calendar chapter **16** reading and writing files in python chapter **17** if file or directory exists chapter **18** python copy file chapter **19** python rename file chapter **20** python zip file chapter **21** accessing internet data with python chapter **22** manipulating xml with python the e book has used screenshot and graphics explicitly for explaining code examples with this python crash course you will discover that python is not what that lengthy books expensive online courses or complicated python tutorial books have projected after reading this python book you will not only gain knowledge but able to retain the knowledge for longer

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frameworks models and techniques that enable machines to learn from data use scikit learn for machine learning and tensorflow for deep learning apply machine learning to classification predict predict customer churning and more build and train neural networks gans cnn and other models discover best practices for evaluating and tuning models predict target outcomes using optimization algorithm such as gradient descent algorithm analysis overcome challenges in deep learning algorithms by using dropout regulation who this book is forif you know some python and you want to use machine learning and deep learning pick up this book whether you want to start from scratch or extend your machine learning knowledge this is an essential resource written for developers and data scientists who want to create practical machine learning and deep learning code this book is ideal for anyone who wants to teach computers how to learn from data table of contents1 giving computers the ability to learn from data2 training simple ml algorithms for classification3 ml classifiers using scikit learn4 building good training datasets data preprocessing5 compressing data via dimensionality reduction6 best practices for model evaluation and hyperparameter tuning7 combining different models for ensemble learning8 predicting continuous target variables with supversized learning 9 implementing multilayer artificial neural networks10 modeling sequential data using recurrent neural networks11 gans for synthesizing new data and so much more in every chapter you can edit the examples online

get a comprehensive in depth introduction to the core python language with this hands on book based on author mark lutz s popular training course this updated sixth edition will help you quickly write efficient high quality code with python it s an ideal way to begin whether you re new to programming or a professional developer versed in other languages complete with quizzes exercises and helpful illustrations this easy to follow self paced tutorial gets you started with python 3 12 and all other releases in use today with a pragmatic focus on what you need to know it also introduces some advanced language features that have become increasingly common in python code this book helps you explore python s built in object types such as strings lists dictionaries and files create and process objects with python statements and learn python s syntax model use functions and functional programming to avoid redundancy and maximize reuse organize code into larger components with modules and packages code robust programs with python s exception handling and development tools apply object oriented programming and classes to make code customizable survey advanced python tools including decorators descriptors and metaclasses write idiomatic python code that runs portably across a wide variety of platforms

the 3rd international conference on intelligent and interactive computing 2021 iic 2021 was held virtually at universiti teknikal malaysia melaka utem melaka malaysia on 9 september 2021 the event was jointly organized by the department of interactive media and department of intelligent computing and analytics faculty of information and communication technology universiti teknikal malaysia melaka utem with the theme empowering the world with intelligent and immersive computing towards smart solutions this open access e proceedings contains a compilation of 38 selected papers from the iic 2021 the technical committees received a great response for submissions from various area including computational intelligence data analytics robotics and automation multimedia and immersive technologies education 4 0 and others we hope that this proceeding will serve as a valuable reference for researchers the event has achieved its aim which is to gather academic scholars and industry practitioners to share valuable knowledge and expertise in related disciplines moreover it is hoped that this conference has opened up opportunities to explore recent advancements and challenges on selected research discipline as the editors in chief we are grateful and would like to convey our sincerest gratitude to the fellow review members for their effort in reviewing the submitted papers for this proceeding we are thankful to all the authors for revising their papers according to the proceeding requirements also we would like to express our thoughtful appreciation to the organizer of the iic 2021

using clear explanations simple pure python code no libraries and step by step tutorials you will discover how to load and prepare data evaluate model skill and implement a suite of linear nonlinear and ensemble machine learning algorithms from scratch

machine learning is rapidly changing the world from diverse types of applications and research pursued in industry and academia machine learning is affecting every part of your daily life from voice assistants using nlp and machine learning to make appointments check your calendar and play music to programmatic advertisements that are so accurate that they can predict what you will need before you even think of it powerful isn t it do you want to do machine learning using python but you re having trouble getting started then this complete python handbook will teach you every single info you need to know about this popular and powerful interpreted language in this step by step tutorial you will learn exactly how phyton works and why its functionalities are so advantageous compared with any other programming language realize how python is the ideal programming language for querying data and retrieving valuable insights to always be able to find what you are looking for in the easiest possible way have the

chance to practice what you learn thanks to the exercises you find inside this manual so that you are always sure you are doing the right thing in the right way discover even if you use python as a beginner practical ways to build your machine learning solutions with all the data available today machine learning applications are limited only by your imagination have in your hands several possibilities for both high and low level development to create websites and web applications for any kind of business lot more stop being afraid of all those difficult and tricky programming languages now you can start learning or improve your knowledge of this incredible and super easy to understand programming language this machine learning with python tutorial is designed for software programmers and beginners who need to learn python programming language from scratch python is chosen by the best in the world companies like google facebook or microsoft and it s growing very fast developers love its features eager to know why order your copy now and start coding your best project ever

python machine learningpython is a general purpose high level programming language that is being increasingly used in data science and in designing machine learning algorithms this tutorial provides a quick introduction to python and its libraries like numpy scipy pandas matplotlib and explains how it can be applied to develop machine learning algorithms that solve real world problems this tutorial starts with an introduction to machine learning and the python language and shows you how to setup python and its packages it further covers all important concepts such as exploratory data analysis data preprocessing feature extraction data visualization and clustering classification regression and model performance evaluation this tutorial also provides various projects that teaches you the techniques and functionalities such as news topic classification spam email detection online ad click through prediction stock prices forecast and other several important machine learning algorithms this tutorial has been prepared for professionals aspiring to learn the basics of python and develop applications involving machine learning techniques such as recommendation classification and clustering through this tutorial you will learn to solve data driven problems and implement your solutions using the powerful yet simple programming language python and its packages after completing this tutorial you will gain a broad picture of the machine learning environment and the best practices for machine learning techniques

what do you need to learn to move from being a complete beginner to someone with advanced knowledge of python programming do you want to understand which ones are the best libraries to use and why has python considered the

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and this is what you will learn in this book this book aims to elevate your python knowledge to a more advanced level which will enable you to stand out from the crowd you will learn how to install python step by stephow to write your first python programhow to debug a python programwhich ones are the best libraries and how to import themand much moretags python object oriented python python course python book learning python python language python examples python tutorials python programming language

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