

FREE READING DATA SCIENCE AND COMPLEX NETWORKS REAL CASE STUDIES WITH PYTHON .PDF

HUMANITIES DATA ANALYSIS MACHINE LEARNING FOR DECISION SCIENCES WITH CASE STUDIES IN PYTHON PRACTICAL MACHINE LEARNING FOR DATA ANALYSIS USING PYTHON SOLVING DATA SCIENCE CASE STUDIES WITH PYTHON DATA SCIENCE AND COMPLEX NETWORKS INTRODUCTION TO PROGRAMMING CONCEPTS WITH CASE STUDIES IN PYTHON INTRODUCTION TO PROGRAMMING CONCEPTS WITH CASE STUDIES IN PYTHON PYTHON FOR MARKETING RESEARCH AND ANALYTICS DATA ANALYSIS WITH PYTHON PYTHON MACHINE LEARNING CASE STUDIES INTRODUCTION TO PYTHON IN EARTH SCIENCE DATA ANALYSIS CASE STUDIES IN NEURAL DATA ANALYSIS RESEARCH SOFTWARE ENGINEERING WITH PYTHON INTRODUCTION TO PYTHON PROGRAMMING FOR BUSINESS AND SOCIAL SCIENCE APPLICATIONS MACHINE LEARNING FOR TIME-SERIES WITH PYTHON DATA MINING WITH PYTHON DATA ANALYSIS FOR SOCIAL SCIENCE AND MARKETING RESEARCH USING PYTHON COMPUTATIONAL FRAMEWORKS FOR POLITICAL AND SOCIAL RESEARCH WITH PYTHON MACHINE LEARNING APPLICATIONS USING PYTHON EFFECTIVE COMPUTATION IN PHYSICS MACHINE LEARNING APPLICATIONS USING PYTHON LEARNING ADVANCED PYTHON BY STUDYING OPEN SOURCE PROJECTS INTRODUCTION TO MACHINE LEARNING WITH PYTHON PRACTICAL MACHINE LEARNING WITH PYTHON DATA ANALYSIS WITH MACHINE LEARNING FOR PSYCHOLOGISTS PRACTICAL NATURAL LANGUAGE PROCESSING WITH PYTHON A PYTHON DATA ANALYST'S TOOLKIT DATA MINING WITH PYTHON INDUSTRIAL STATISTICS APPLIED TEXT ANALYSIS WITH PYTHON PROGRAMMING WITH PYTHON FOR SOCIAL SCIENTISTS INTRODUCTION TO DATA SCIENCE PYTHON FOR DATA ANALYSIS PYTHON PROGRAMMING MACHINE LEARNING WITH PYTHON: COMPREHENSIVE BEGINNER'S GUIDE TO MACHINE LEARNING IN PYTHON WITH EXERCISES AND CASE STUDIES MODERN STATISTICS A PYTHON DATA ANALYST'S TOOLKIT DEEP NEURO-FUZZY SYSTEMS WITH PYTHON DATA SCIENCE FOR PROGRAMMER: A PROJECT-BASED APPROACH WITH PYTHON GUI INTRODUCTION TO DATA SCIENCE FOR SOCIAL AND POLICY RESEARCH

HUMANITIES DATA ANALYSIS 2021-01-12 A PRACTICAL GUIDE TO DATA INTENSIVE HUMANITIES RESEARCH USING THE PYTHON PROGRAMMING LANGUAGE THE USE OF QUANTITATIVE METHODS IN THE HUMANITIES AND RELATED SOCIAL SCIENCES HAS INCREASED CONSIDERABLY IN RECENT YEARS ALLOWING RESEARCHERS TO DISCOVER PATTERNS IN A VAST RANGE OF SOURCE MATERIALS DESPITE THIS GROWTH THERE ARE FEW RESOURCES ADDRESSED TO STUDENTS AND SCHOLARS WHO WISH TO TAKE ADVANTAGE OF THESE POWERFUL TOOLS HUMANITIES DATA ANALYSIS OFFERS THE FIRST INTERMEDIATE LEVEL GUIDE TO QUANTITATIVE DATA ANALYSIS FOR HUMANITIES STUDENTS AND SCHOLARS USING THE PYTHON PROGRAMMING LANGUAGE THIS PRACTICAL TEXTBOOK WHICH ASSUMES A BASIC KNOWLEDGE OF PYTHON TEACHES READERS THE NECESSARY SKILLS FOR CONDUCTING HUMANITIES RESEARCH IN THE RAPIDLY DEVELOPING DIGITAL ENVIRONMENT THE BOOK BEGINS WITH AN OVERVIEW OF THE PLACE OF DATA SCIENCE IN THE HUMANITIES AND PROCEEDS TO COVER DATA CARPENTRY THE ESSENTIAL TECHNIQUES FOR GATHERING CLEANING REPRESENTING AND TRANSFORMING TEXTUAL AND TABULAR DATA THEN DRAWING FROM REAL WORLD PUBLICLY AVAILABLE DATA SETS THAT COVER A VARIETY OF SCHOLARLY DOMAINS THE BOOK DELVES INTO DETAILED CASE STUDIES FOCUSING ON TEXTUAL DATA ANALYSIS THE AUTHORS EXPLORE SUCH DIVERSE TOPICS AS NETWORK ANALYSIS GENRE THEORY ONOMASTICS LITERACY AUTHOR ATTRIBUTION MAPPING STYLOMETRY TOPIC MODELING AND TIME SERIES ANALYSIS EXERCISES AND RESOURCES FOR FURTHER READING ARE PROVIDED AT THE END OF EACH CHAPTER AN IDEAL RESOURCE FOR HUMANITIES STUDENTS AND SCHOLARS AIMING TO TAKE THEIR PYTHON SKILLS TO THE NEXT LEVEL HUMANITIES DATA ANALYSIS ILLUSTRATES THE BENEFITS THAT QUANTITATIVE METHODS CAN BRING TO COMPLEX RESEARCH QUESTIONS APPROPRIATE FOR ADVANCED UNDERGRADUATES GRADUATE STUDENTS AND SCHOLARS WITH A BASIC KNOWLEDGE OF PYTHON APPLICABLE TO MANY HUMANITIES DISCIPLINES INCLUDING HISTORY LITERATURE AND SOCIOLOGY OFFERS REAL WORLD CASE STUDIES USING PUBLICLY AVAILABLE DATA SETS PROVIDES EXERCISES AT THE END OF EACH CHAPTER FOR STUDENTS TO TEST ACQUIRED SKILLS EMPHASIZES VISUAL STORYTELLING VIA DATA VISUALIZATIONS

MACHINE LEARNING FOR DECISION SCIENCES WITH CASE STUDIES IN PYTHON 2022-07-06 THIS BOOK PROVIDES A DETAILED DESCRIPTION OF MACHINE LEARNING ALGORITHMS IN DATA ANALYTICS DATA SCIENCE LIFE CYCLE PYTHON FOR MACHINE LEARNING LINEAR REGRESSION LOGISTIC REGRESSION AND SO FORTH IT ADDRESSES THE CONCEPTS OF MACHINE LEARNING IN A PRACTICAL SENSE PROVIDING COMPLETE CODE AND IMPLEMENTATION FOR REAL WORLD EXAMPLES IN ELECTRICAL OIL AND GAS E COMMERCE AND HI TECH INDUSTRIES THE FOCUS IS ON PYTHON PROGRAMMING FOR MACHINE LEARNING AND PATTERNS INVOLVED IN DECISION SCIENCE FOR HANDLING DATA FEATURES EXPLAINS THE BASIC CONCEPTS OF PYTHON AND ITS ROLE IN MACHINE LEARNING PROVIDES COMPREHENSIVE COVERAGE OF FEATURE ENGINEERING INCLUDING REAL TIME CASE STUDIES PERCEIVES THE STRUCTURAL PATTERNS WITH REFERENCE TO DATA SCIENCE AND STATISTICS AND ANALYTICS INCLUDES MACHINE LEARNING BASED STRUCTURED EXERCISES APPRECIATES DIFFERENT ALGORITHMIC CONCEPTS OF MACHINE LEARNING INCLUDING UNSUPERVISED SUPERVISED AND REINFORCEMENT LEARNING THIS BOOK IS AIMED AT RESEARCHERS PROFESSIONALS AND GRADUATE STUDENTS IN DATA SCIENCE MACHINE LEARNING COMPUTER SCIENCE AND ELECTRICAL AND COMPUTER ENGINEERING

PRACTICAL MACHINE LEARNING FOR DATA ANALYSIS Using PYTHON 2020-06-05 PRACTICAL MACHINE LEARNING FOR DATA ANALYSIS USING PYTHON IS A PROBLEM SOLVER S GUIDE FOR CREATING REAL WORLD INTELLIGENT SYSTEMS IT PROVIDES A COMPREHENSIVE APPROACH WITH CONCEPTS PRACTICES HANDS ON EXAMPLES AND SAMPLE CODE THE BOOK TEACHES READERS THE VITAL SKILLS REQUIRED TO UNDERSTAND AND SOLVE DIFFERENT PROBLEMS WITH MACHINE LEARNING IT TEACHES MACHINE LEARNING TECHNIQUES NECESSARY TO BECOME A SUCCESSFUL PRACTITIONER THROUGH THE PRESENTATION OF REAL WORLD CASE STUDIES IN PYTHON MACHINE LEARNING ECOSYSTEMS THE BOOK ALSO FOCUSES ON BUILDING A FOUNDATION OF MACHINE LEARNING KNOWLEDGE TO SOLVE DIFFERENT REAL WORLD CASE STUDIES ACROSS VARIOUS FIELDS INCLUDING BIOMEDICAL SIGNAL ANALYSIS HEALTHCARE SECURITY ECONOMICS AND FINANCE MOREOVER IT COVERS A WIDE RANGE OF MACHINE

LEARNING MODELS INCLUDING REGRESSION CLASSIFICATION AND FORECASTING THE GOAL OF THE BOOK IS TO HELP A BROAD RANGE OF READERS INCLUDING IT PROFESSIONALS ANALYSTS DEVELOPERS DATA SCIENTISTS ENGINEERS AND GRADUATE STUDENTS TO SOLVE THEIR OWN REAL WORLD PROBLEMS OFFERS A COMPREHENSIVE OVERVIEW OF THE APPLICATION OF MACHINE LEARNING TOOLS IN DATA ANALYSIS ACROSS A WIDE RANGE OF SUBJECT AREAS TEACHES READERS HOW TO APPLY MACHINE LEARNING TECHNIQUES TO BIOMEDICAL SIGNALS FINANCIAL DATA AND HEALTHCARE DATA EXPLORES IMPORTANT CLASSIFICATION AND REGRESSION ALGORITHMS AS WELL AS OTHER MACHINE LEARNING TECHNIQUES EXPLAINS HOW TO USE PYTHON TO HANDLE DATA EXTRACTION MANIPULATION AND EXPLORATION TECHNIQUES AS WELL AS HOW TO VISUALIZE DATA SPREAD ACROSS MULTIPLE DIMENSIONS AND EXTRACT USEFUL FEATURES

SOLVING DATA SCIENCE CASE STUDIES WITH PYTHON 2021-06-28 THIS BOOK IS SPECIALLY WRITTEN FOR THOSE WHO KNOW THE BASICS OF THE PYTHON PROGRAMMING LANGUAGE AS WELL AS THE NECESSARY PYTHON LIBRARIES YOU NEED FOR DATA SCIENCE LIKE NUMPY PANDAS MATPLOTLIB SEABORN PLOTLY AND SCIKIT LEARN THIS BOOK AIMS TO TEACH YOU HOW TO THINK WHILE SOLVING A BUSINESS PROBLEM WITH YOUR DATA SCIENCE SKILLS TO ACHIEVE THE GOAL OF THIS BOOK I STARTED BY GIVING YOU ALL THE KNOWLEDGE YOU NEED TO HAVE BEFORE YOU APPLY FOR YOUR FIRST DATA SCIENCE JOB THE TECHNICAL SKILLS AND SOFT SKILLS YOU NEED TO BECOME A DATA SCIENTIST ARE ALSO DISCUSSED IN THIS BOOK NEXT YOU LL FIND SOME OF THE BEST DATA SCIENCE CASE STUDIES THAT WILL HELP YOU UNDERSTAND WHAT YOUR APPROACH SHOULD BE WHILE SOLVING A BUSINESS PROBLEM ULTIMATELY YOU WILL ALSO FIND SOME OF THE MOST IMPORTANT DATA SCIENCE INTERVIEW QUESTIONS WITH THEIR SOLUTIONS AT THE END I HOPE THIS BOOK WILL ADD A LOT OF VALUE TO YOUR DATA SCIENCE SKILLS AND THAT YOU WILL FEEL CONFIDENT IN YOUR ENTIRE JOURNEY TO BECOME DATA SCIENTIST

DATA SCIENCE AND COMPLEX NETWORKS 2016-11-10 THIS BOOK PROVIDES A COMPREHENSIVE YET SHORT DESCRIPTION OF THE BASIC CONCEPTS OF COMPLEX NETWORK THEORY IN CONTRAST TO OTHER BOOKS THE AUTHORS PRESENT THESE CONCEPTS THROUGH REAL CASE STUDIES THE APPLICATION TOPICS SPAN FROM FOODWEBS TO THE INTERNET THE WORLD WIDE AND THE SOCIAL NETWORKS PASSING THROUGH THE INTERNATIONAL TRADE AND FINANCIAL TIME SERIES THE FINAL PART IS DEVOTED TO DEFINITION AND IMPLEMENTATION OF THE MOST IMPORTANT NETWORK MODELS THE TEXT PROVIDES INFORMATION ON THE STRUCTURE OF THE DATA AND ON THE QUALITY OF AVAILABLE DATASETS FURTHERMORE IT PROVIDES A SERIES OF CODES TO ALLOW IMMEDIATE IMPLEMENTATION OF WHAT IS THEORETICALLY DESCRIBED IN THE BOOK READERS ALREADY USED TO THE CONCEPTS INTRODUCED IN THIS BOOK CAN LEARN THE ART OF CODING IN PYTHON BY USING THE ONLINE MATERIAL TO THIS PURPOSE THE AUTHORS HAVE SET UP A DEDICATED WEB SITE WHERE READERS CAN DOWNLOAD AND TEST THE CODES THE WHOLE PROJECT IS AIMED AS A LEARNING TOOL FOR SCIENTISTS AND PRACTITIONERS ENABLING THEM TO BEGIN WORKING INSTANTLY IN THE FIELD OF COMPLEX NETWORKS

INTRODUCTION TO PROGRAMMING CONCEPTS WITH CASE STUDIES IN PYTHON 2012-10-30 THE CURRENT TEXT PROVIDES A CLEAR INTRODUCTION TO COMPUTER SCIENCE CONCEPTS IN A PROGRAMMING ENVIRONMENT IT IS DESIGNED AS SUITABLE USE IN FRESHMAN OR INTRODUCTORY LEVEL COURSEWORK IN CS AND PROVIDES THE FUNDAMENTAL CONCEPTS AS WELL AS ABSTRACT THEOREMS FOR SOLVING COMPUTATIONAL PROBLEMS THE PYTHON LANGUAGE SERVES AS A MEDIUM FOR ILLUSTRATING AND DEMONSTRATING THE CONCEPTS

INTRODUCTION TO PROGRAMMING CONCEPTS WITH CASE STUDIES IN PYTHON 2012-10-29 THIS BOOK PROVIDES AN INTRODUCTION TO QUANTITATIVE MARKETING WITH PYTHON THE BOOK PRESENTS A HANDS ON APPROACH TO USING PYTHON FOR REAL MARKETING QUESTIONS ORGANIZED BY KEY TOPIC AREAS FOLLOWING THE PYTHON SCIENTIFIC COMPUTING MOVEMENT TOWARD REPRODUCIBLE RESEARCH THE BOOK PRESENTS ALL ANALYSES IN COLAB NOTEBOOKS WHICH INTEGRATE CODE FIGURES TABLES AND ANNOTATION IN A SINGLE FILE THE CODE NOTEBOOKS FOR EACH CHAPTER MAY BE COPIED ADAPTED AND REUSED IN ONE S OWN ANALYSES THE BOOK ALSO INTRODUCES THE USAGE OF MACHINE LEARNING

PREDICTIVE MODELS USING THE PYTHON SKLEARN PACKAGE IN THE CONTEXT OF MARKETING RESEARCH THIS BOOK IS DESIGNED FOR THREE GROUPS OF READERS EXPERIENCED MARKETING RESEARCHERS WHO WISH TO LEARN TO PROGRAM IN PYTHON COMING FROM TOOLS AND LANGUAGES SUCH AS R SAS OR SPSS ANALYSTS OR STUDENTS WHO ALREADY PROGRAM IN PYTHON AND WISH TO LEARN ABOUT MARKETING APPLICATIONS AND UNDERGRADUATE OR GRADUATE MARKETING STUDENTS WITH LITTLE OR NO PROGRAMMING BACKGROUND IT PRESUMES ONLY AN INTRODUCTORY LEVEL OF FAMILIARITY WITH FORMAL STATISTICS AND CONTAINS A MINIMUM OF MATHEMATICS

PYTHON FOR MARKETING RESEARCH AND ANALYTICS 2020-11-03 LEARN A MODERN APPROACH TO DATA ANALYSIS USING PYTHON TO HARNESS THE POWER OF PROGRAMMING AND AI ACROSS YOUR DATA DETAILED CASE STUDIES BRING THIS MODERN APPROACH TO LIFE ACROSS VISUAL DATA SOCIAL MEDIA GRAPH ALGORITHMS AND TIME SERIES ANALYSIS KEY FEATURESBRIDGE YOUR DATA ANALYSIS WITH THE POWER OF PROGRAMMING COMPLEX ALGORITHMS AND AIUSE PYTHON AND ITS EXTENSIVE LIBRARIES TO POWER YOUR WAY TO NEW LEVELS OF DATA INSIGHTWORK WITH AI ALGORITHMS TENSORFLOW GRAPH ALGORITHMS NLP AND FINANCIAL TIME SERIESEXPLORE THIS MODERN APPROACH ACROSS WITH KEY INDUSTRY CASE STUDIES AND HANDS ON PROJECTSBOOK DESCRIPTION DATA ANALYSIS WITH PYTHON OFFERS A MODERN APPROACH TO DATA ANALYSIS SO THAT YOU CAN WORK WITH THE LATEST AND MOST POWERFUL PYTHON TOOLS AI TECHNIQUES AND OPEN SOURCE LIBRARIES INDUSTRY EXPERT DAVID TAIEB SHOWS YOU HOW TO BRIDGE DATA SCIENCE WITH THE POWER OF PROGRAMMING AND ALGORITHMS IN PYTHON YOU LL BE WORKING WITH COMPLEX ALGORITHMS AND CUTTING EDGE AI IN YOUR DATA ANALYSIS LEARN HOW TO ANALYZE DATA WITH HANDS ON EXAMPLES USING PYTHON BASED TOOLS AND JUPYTER NOTEBOOK YOU LL FIND THE RIGHT BALANCE OF THEORY AND PRACTICE WITH EXTENSIVE CODE FILES THAT YOU CAN INTEGRATE RIGHT INTO YOUR OWN DATA PROJECTS EXPLORE THE POWER OF THIS APPROACH TO DATA ANALYSIS BY THEN WORKING WITH IT ACROSS KEY INDUSTRY CASE STUDIES FOUR FASCINATING AND FULL PROJECTS CONNECT YOU TO THE MOST CRITICAL DATA ANALYSIS CHALLENGES YOU RE LIKELY TO MEET IN TODAY THE FIRST OF THESE IS AN IMAGE RECOGNITION APPLICATION WITH TENSORFLOW EMBRACING THE IMPORTANCE TODAY OF AI IN YOUR DATA ANALYSIS THE SECOND INDUSTRY PROJECT ANALYSES SOCIAL MEDIA TRENDS EXPLORING BIG DATA ISSUES AND AI APPROACHES TO NATURAL LANGUAGE PROCESSING THE THIRD CASE STUDY IS A FINANCIAL PORTFOLIO ANALYSIS APPLICATION THAT ENGAGES YOU WITH TIME SERIES ANALYSIS PIVOTAL TO MANY DATA SCIENCE APPLICATIONS TODAY THE FOURTH INDUSTRY USE CASE DIVES YOU INTO GRAPH ALGORITHMS AND THE POWER OF PROGRAMMING IN MODERN DATA SCIENCE YOU LL WRAP UP WITH A THOUGHTFUL LOOK AT THE FUTURE OF DATA SCIENCE AND HOW IT WILL HARNESS THE POWER OF ALGORITHMS AND ARTIFICIAL INTELLIGENCE WHAT YOU WILL LEARNA NEW TOOLSET THAT HAS BEEN CAREFULLY CRAFTED TO MEET FOR YOUR DATA ANALYSIS CHALLENGESFULL AND DETAILED CASE STUDIES OF THE TOOLSET ACROSS SEVERAL OF TODAY S KEY INDUSTRY CONTEXTSBECOME SUPER PRODUCTIVE WITH A NEW TOOLSET ACROSS PYTHON AND JUPYTER NOTEBOOKLOOK INTO THE FUTURE OF DATA SCIENCE AND WHICH DIRECTIONS TO DEVELOP YOUR SKILLS NEXTWHO THIS BOOK IS FOR THIS BOOK IS FOR DEVELOPERS WANTING TO BRIDGE THE GAP BETWEEN THEM AND DATA SCIENTISTS INTRODUCING PIXIEDUST FROM ITS CREATOR THE BOOK IS A GREAT DESK COMPANION FOR THE ACCOMPLISHED DATA SCIENTIST SOME FLUENCY IN DATA INTERPRETATION AND VISUALIZATION IS ASSUMED IT WILL BE HELPFUL TO HAVE SOME KNOWLEDGE OF PYTHON USING PYTHON LIBRARIES AND SOME PROFICIENCY IN WEB DEVELOPMENT

DATA ANALYSIS WITH PYTHON 2018-12-31 EMBRACE MACHINE LEARNING APPROACHES AND PYTHON TO ENABLE AUTOMATIC RENDERING OF RICH INSIGHTS AND SOLVE BUSINESS PROBLEMS THE BOOK USES A HANDS ON CASE STUDY BASED APPROACH TO CRACK REAL WORLD APPLICATIONS TO WHICH MACHINE LEARNING CONCEPTS CAN BE APPLIED THESE SMARTER MACHINES WILL ENABLE YOUR BUSINESS PROCESSES TO ACHIEVE EFFICIENCIES ON MINIMAL TIME AND RESOURCES PYTHON MACHINE LEARNING CASE STUDIES TAKES YOU THROUGH THE STEPS TO IMPROVE BUSINESS PROCESSES AND DETERMINE THE PIVOTAL POINTS THAT FRAME STRATEGIES YOU LL SEE MACHINE LEARNING TECHNIQUES

THAT YOU CAN USE TO SUPPORT YOUR PRODUCTS AND SERVICES MOREOVER YOU LL LEARN THE PROS AND CONS OF EACH OF THE MACHINE LEARNING CONCEPTS TO HELP YOU DECIDE WHICH ONE BEST SUITS YOUR NEEDS BY TAKING A STEP BY STEP APPROACH TO CODING IN PYTHON YOU LL BE ABLE TO UNDERSTAND THE RATIONALE BEHIND MODEL SELECTION AND DECISIONS WITHIN THE MACHINE LEARNING PROCESS THE BOOK IS EQUIPPED WITH PRACTICAL EXAMPLES ALONG WITH CODE SNIPPETS TO ENSURE THAT YOU UNDERSTAND THE DATA SCIENCE APPROACH TO SOLVING REAL WORLD PROBLEMS WHAT YOU WILL LEARN GAIN INSIGHTS INTO MACHINE LEARNING CONCEPTS WORK ON REAL WORLD APPLICATIONS OF MACHINE LEARNING LEARN CONCEPTS OF MODEL SELECTION AND OPTIMIZATION GET A HANDS ON OVERVIEW OF PYTHON FROM A MACHINE LEARNING POINT OF VIEW WHO THIS BOOK IS FOR DATA SCIENTISTS DATA ANALYSTS ARTIFICIAL INTELLIGENCE ENGINEERS BIG DATA ENTHUSIASTS COMPUTER SCIENTISTS COMPUTER SCIENCES STUDENTS AND CAPITAL MARKET ANALYSTS

PYTHON MACHINE LEARNING CASE STUDIES 2017-10-27 THIS TEXTBOOK INTRODUCES THE USE OF PYTHON PROGRAMMING FOR EXPLORING AND MODELLING DATA IN THE FIELD OF EARTH SCIENCES IT DRIVES THE READER FROM HIS VERY FIRST STEPS WITH PYTHON LIKE SETTING UP THE ENVIRONMENT AND STARTING WRITING THE FIRST LINES OF CODES TO PROFICIENT USE IN VISUALIZING ANALYZING AND MODELLING DATA IN THE FIELD OF EARTH SCIENCE EACH CHAPTER CONTAINS EXPLICATIVE EXAMPLES OF CODE AND EACH SCRIPT IS COMMENTED IN DETAIL THE BOOK IS MINDED FOR VERY BEGINNERS IN PYTHON PROGRAMMING AND IT CAN BE USED IN TEACHING COURSES AT MASTER OR PHD LEVELS ALSO EARLY CAREERS AND EXPERIENCED RESEARCHERS WHO WOULD LIKE TO START LEARNING PYTHON PROGRAMMING FOR THE SOLUTION OF GEOLOGICAL PROBLEMS WILL BENEFIT THE READING OF THE BOOK

INTRODUCTION TO PYTHON IN EARTH SCIENCE DATA ANALYSIS 2021-09-16 A PRACTICAL GUIDE TO NEURAL DATA ANALYSIS TECHNIQUES THAT PRESENTS SAMPLE DATASETS AND HANDS ON METHODS FOR ANALYZING THE DATA AS NEURAL DATA BECOMES INCREASINGLY COMPLEX NEUROSCIENTISTS NOW REQUIRE SKILLS IN COMPUTER PROGRAMMING STATISTICS AND DATA ANALYSIS THIS BOOK TEACHES PRACTICAL NEURAL DATA ANALYSIS TECHNIQUES BY PRESENTING EXAMPLE DATASETS AND DEVELOPING TECHNIQUES AND TOOLS FOR ANALYZING THEM EACH CHAPTER BEGINS WITH A SPECIFIC EXAMPLE OF NEURAL DATA WHICH MOTIVATES MATHEMATICAL AND STATISTICAL ANALYSIS METHODS THAT ARE THEN APPLIED TO THE DATA THIS PRACTICAL HANDS ON APPROACH IS UNIQUE AMONG DATA ANALYSIS TEXTBOOKS AND GUIDES AND EQUIPS THE READER WITH THE TOOLS NECESSARY FOR REAL WORLD NEURAL DATA ANALYSIS THE BOOK BEGINS WITH AN INTRODUCTION TO MATLAB THE MOST COMMON PROGRAMMING PLATFORM IN NEUROSCIENCE WHICH IS USED IN THE BOOK READERS FAMILIAR WITH MATLAB CAN SKIP THIS CHAPTER AND MIGHT DECIDE TO FOCUS ON DATA TYPE OR METHOD TYPE THE BOOK GOES ON TO COVER NEURAL FIELD DATA AND SPIKE TRAIN DATA SPECTRAL ANALYSIS GENERALIZED LINEAR MODELS COHERENCE AND CROSS FREQUENCY COUPLING EACH CHAPTER OFFERS A STAND ALONE CASE STUDY THAT CAN BE USED SEPARATELY AS PART OF A TARGETED INVESTIGATION THE BOOK INCLUDES SOME MATHEMATICAL DISCUSSION BUT DOES NOT FOCUS ON MATHEMATICAL OR STATISTICAL THEORY EMPHASIZING THE PRACTICAL INSTEAD REFERENCES ARE INCLUDED FOR READERS WHO WANT TO EXPLORE THE THEORETICAL MORE DEEPLY THE DATA AND ACCOMPANYING MATLAB CODE ARE FREELY AVAILABLE ON THE AUTHORS WEBSITE THE BOOK CAN BE USED FOR UPPER LEVEL UNDERGRADUATE OR GRADUATE COURSES OR AS A PROFESSIONAL REFERENCE A VERSION OF THIS TEXTBOOK WITH ALL OF THE EXAMPLES IN PYTHON IS AVAILABLE ON THE MIT PRESS WEBSITE

CASE STUDIES IN NEURAL DATA ANALYSIS 2016-11-04 WRITING AND RUNNING SOFTWARE IS NOW AS MUCH A PART OF SCIENCE AS TELESCOPES AND TEST TUBES BUT MOST RESEARCHERS ARE NEVER TAUGHT HOW TO DO EITHER WELL AS A RESULT IT TAKES THEM LONGER TO ACCOMPLISH SIMPLE TASKS THAN IT SHOULD AND IT IS HARDER FOR THEM TO SHARE THEIR WORK WITH OTHERS THAN IT NEEDS TO BE THIS BOOK INTRODUCES THE CONCEPTS TOOLS AND SKILLS THAT RESEARCHERS NEED TO GET MORE DONE IN LESS TIME AND WITH LESS PAIN BASED ON THE PRACTICAL EXPERIENCES OF ITS AUTHORS WHO COLLECTIVELY HAVE SPENT SEVERAL DECADES TEACHING SOFTWARE SKILLS TO SCIENTISTS IT COVERS EVERYTHING GRADUATE LEVEL RESEARCHERS NEED TO AUTOMATE THEIR

WORKFLOWS COLLABORATE WITH COLLEAGUES ENSURE THAT THEIR RESULTS ARE TRUSTWORTHY AND PUBLISH WHAT THEY HAVE BUILT SO THAT OTHERS CAN BUILD ON IT THE BOOK ASSUMES ONLY A BASIC KNOWLEDGE OF PYTHON AS A STARTING POINT AND SHOWS READERS HOW IT THE UNIX SHELL GIT MAKE AND RELATED TOOLS CAN GIVE THEM MORE TIME TO FOCUS ON THE RESEARCH THEY ACTUALLY WANT TO DO RESEARCH SOFTWARE ENGINEERING WITH PYTHON CAN BE USED AS THE MAIN TEXT IN A ONE SEMESTER COURSE OR FOR SELF GUIDED STUDY A RUNNING EXAMPLE SHOWS HOW TO ORGANIZE A SMALL RESEARCH PROJECT STEP BY STEP OVER A HUNDRED EXERCISES GIVE READERS A CHANCE TO PRACTICE THESE SKILLS THEMSELVES WHILE A GLOSSARY DEFINING OVER TWO HUNDRED TERMS WILL HELP READERS FIND THEIR WAY THROUGH THE TERMINOLOGY ALL OF THE MATERIAL CAN BE RE USED UNDER A CREATIVE COMMONS LICENSE AND ALL ROYALTIES FROM SALES OF THE BOOK WILL BE DONATED TO THE CARPENTRIES AN ORGANIZATION THAT TEACHES FOUNDATIONAL CODING AND DATA SCIENCE SKILLS TO RESEARCHERS WORLDWIDE

RESEARCH SOFTWARE ENGINEERING WITH PYTHON 2021-08-06 WOULD YOU LIKE TO GATHER BIG DATASETS ANALYZE THEM AND VISUALIZE THE RESULTS ALL IN ONE PROGRAM IF THIS DESCRIBES YOU THEN INTRODUCTION TO PYTHON PROGRAMMING FOR BUSINESS AND SOCIAL SCIENCE APPLICATIONS IS THE BOOK FOR YOU AUTHORS FREDERICK KAEFER AND PAUL KAEFER WALK YOU THROUGH EACH STEP OF THE PYTHON PACKAGE INSTALLATION AND ANALYSIS PROCESS WITH FREQUENT EXERCISES THROUGHOUT SO YOU CAN IMMEDIATELY TRY OUT THE FUNCTIONS YOU VE LEARNED WRITTEN IN STRAIGHTFORWARD LANGUAGE FOR THOSE WITH NO PROGRAMMING BACKGROUND THIS BOOK WILL TEACH YOU HOW TO USE PYTHON FOR YOUR RESEARCH AND DATA ANALYSIS INSTEAD OF TEACHING YOU THE PRINCIPLES AND PRACTICES OF PROGRAMMING AS A WHOLE THIS APPLICATION ORIENTED TEXT FOCUSES ON ONLY WHAT YOU NEED TO KNOW TO RESEARCH AND ANSWER SOCIAL SCIENCE QUESTIONS THE TEXT FEATURES TWO TYPES OF EXAMPLES ONE SET FROM THE GENERAL SOCIAL SURVEY AND ONE SET FROM A LARGE TAXI TRIP DATASET FROM A MAJOR METROPOLITAN AREA TO HELP READERS UNDERSTAND THE POSSIBILITIES OF WORKING WITH PYTHON CHAPTERS ON INSTALLING AND WORKING WITHIN A PROGRAMMING ENVIRONMENT BASIC SKILLS AND NECESSARY COMMANDS WILL GET YOU UP AND RUNNING QUICKLY WHILE CHAPTERS ON PROGRAMMING LOGIC DATA INPUT AND OUTPUT AND DATA FRAMES HELP YOU ESTABLISH THE BASIC FRAMEWORK FOR CONDUCTING ANALYSES FURTHER CHAPTERS ON WEB SCRAPING STATISTICAL ANALYSIS MACHINE LEARNING AND DATA VISUALIZATION HELP YOU APPLY YOUR SKILLS TO YOUR RESEARCH MORE ADVANCED INFORMATION ON DEVELOPING GRAPHICAL USER INTERFACES GUIs HELP YOU CREATE FUNCTIONAL DATA PRODUCTS USING PYTHON TO INFORM GENERAL USERS OF DATA WHO DON T WORK WITHIN PYTHON FIRST THERE WAS IBM SPSS THEN THERE WAS R AND NOW THERE S PYTHON STATISTICAL SOFTWARE IS GETTING MORE AGGRESSIVE LET AUTHORS FREDERICK KAEFER AND PAUL KAEFER HELP YOU TAME IT WITH INTRODUCTION TO PYTHON PROGRAMMING FOR BUSINESS AND SOCIAL SCIENCE APPLICATIONS

INTRODUCTION TO PYTHON PROGRAMMING FOR BUSINESS AND SOCIAL SCIENCE APPLICATIONS

2020-08-06 GET BETTER INSIGHTS FROM TIME SERIES DATA AND BECOME PROFICIENT IN MODEL PERFORMANCE ANALYSIS KEY FEATURES EXPLORE POPULAR AND MODERN MACHINE LEARNING METHODS INCLUDING THE LATEST ONLINE AND DEEP LEARNING ALGORITHMS LEARN TO INCREASE THE ACCURACY OF YOUR PREDICTIONS BY MATCHING THE RIGHT MODEL WITH THE RIGHT PROBLEM MASTER TIME SERIES VIA REAL WORLD CASE STUDIES ON OPERATIONS MANAGEMENT DIGITAL MARKETING FINANCE AND HEALTHCARE BOOK DESCRIPTION THE PYTHON TIME SERIES ECOSYSTEM IS HUGE AND OFTEN QUITE HARD TO GET A GOOD GRASP ON ESPECIALLY FOR TIME SERIES SINCE THERE ARE SO MANY NEW LIBRARIES AND NEW MODELS THIS BOOK AIMS TO DEEPEN YOUR UNDERSTANDING OF TIME SERIES BY PROVIDING A COMPREHENSIVE OVERVIEW OF POPULAR PYTHON TIME SERIES PACKAGES AND HELP YOU BUILD BETTER PREDICTIVE SYSTEMS MACHINE LEARNING FOR TIME SERIES WITH PYTHON STARTS BY RE INTRODUCING THE BASICS OF TIME SERIES AND THEN BUILDS YOUR UNDERSTANDING OF TRADITIONAL AUTOREGRESSIVE MODELS AS WELL AS MODERN NON PARAMETRIC MODELS BY OBSERVING PRACTICAL EXAMPLES AND THE THEORY BEHIND THEM YOU WILL BECOME CONFIDENT WITH LOADING TIME SERIES DATASETS FROM ANY

SOURCE DEEP LEARNING MODELS LIKE RECURRENT NEURAL NETWORKS AND CAUSAL CONVOLUTIONAL NETWORK MODELS AND GRADIENT BOOSTING WITH FEATURE ENGINEERING THIS BOOK WILL ALSO GUIDE YOU IN MATCHING THE RIGHT MODEL TO THE RIGHT PROBLEM BY EXPLAINING THE THEORY BEHIND SEVERAL USEFUL MODELS YOU LL ALSO HAVE A LOOK AT REAL WORLD CASE STUDIES COVERING WEATHER TRAFFIC BIKING AND STOCK MARKET DATA BY THE END OF THIS BOOK YOU SHOULD FEEL AT HOME WITH EFFECTIVELY ANALYZING AND APPLYING MACHINE LEARNING METHODS TO TIME SERIES WHAT YOU WILL LEARN UNDERSTAND THE MAIN CLASSES OF TIME SERIES AND LEARN HOW TO DETECT OUTLIERS AND PATTERNS CHOOSE THE RIGHT METHOD TO SOLVE TIME SERIES PROBLEMS CHARACTERIZE SEASONAL AND CORRELATION PATTERNS THROUGH AUTOCORRELATION AND STATISTICAL TECHNIQUES GET TO GRIPS WITH TIME SERIES DATA VISUALIZATION UNDERSTAND CLASSICAL TIME SERIES MODELS LIKE ARMA AND ARIMA IMPLEMENT DEEP LEARNING MODELS LIKE GAUSSIAN PROCESSES TRANSFORMERS AND STATE OF THE ART MACHINE LEARNING MODELS BECOME FAMILIAR WITH MANY LIBRARIES LIKE PROPHET XGBOOST AND TENSORFLOW WHO THIS BOOK IS FOR THIS BOOK IS IDEAL FOR DATA ANALYSTS DATA SCIENTISTS AND PYTHON DEVELOPERS WHO WANT INSTANTLY USEFUL AND PRACTICAL RECIPES TO IMPLEMENT TODAY AND A COMPREHENSIVE REFERENCE BOOK FOR TOMORROW BASIC KNOWLEDGE OF THE PYTHON PROGRAMMING LANGUAGE IS A MUST WHILE FAMILIARITY WITH STATISTICS WILL HELP YOU GET THE MOST OUT OF THIS BOOK

MACHINE LEARNING FOR TIME-SERIES WITH PYTHON 2021-10-29 THIS BOOK FOCUSES ON THE HANDS ON APPROACH TO LEARNING DATA MINING IT SHOWCASES HOW TO USE PYTHON PACKAGES TO FULFILL THE DATA MINING PIPELINE WHICH IS TO COLLECT INTEGRATE MANIPULATE CLEAN PROCESS ORGANIZE AND ANALYZE DATA FOR KNOWLEDGE

DATA MINING WITH PYTHON 2024 THE BOOK IS WRITTEN FOR RESEARCHERS IN SOCIAL SCIENCE AND MARKETING FIELD ESPECIALLY FOR THOSE WITH LITTLE OR NO KNOWLEDGE IN COMPUTER PROGRAMMING DATA ANALYTICS HAS BECOME PART AND PARCEL IN THE CONTEMPORARY TECHNOLOGICALLY FAST PACED WORLD WE HAVE AMAZING TOOLS AND SOFTWARE THAT ALLOW US TO ANALYSE DATA AVAILABLE IN VARIOUS FORMATS HOWEVER MOST OF THE POPULAR PAID SOFTWARE AND PACKAGES FOR DATA ANALYSIS IS NOT AFFORDABLE OR NOT EVEN ACCESSIBLE FOR THE STUDENTS RESEARCHERS THIS IS TRUE IN THE CASE OF MANY NGOS AND AGENCIES HOW ARE INVOLVED IN COMMUNITY BASED RESEARCH IN DEVELOPING COUNTRIES WE HAVE POPULAR OPEN SOURCE PLATFORMS AND TOOLS SUCH AS R AND PYTHON FOR DATA ANALYSIS THIS BOOK MAKES USE OF PYTHON BECAUSE OF ITS SIMPLICITY ADAPTABILITY BROADER SCOPE AND GREATER POTENTIAL IN ADVANCED DATA MINING AND TEXT MINING CONTEXTS WE FOUND IT AS A NEED TO EDUCATE AND TRAIN THE RESEARCHERS FROM SOCIAL SCIENCE AND MARKETING RESEARCH BACKGROUND SO THAT THEY COULD MAKE USE OF PYTHON A PROMISING TOOL TO MEET SIMPLE TO EXTREMELY COMPLEX DATA ANALYSES NEEDS FREE OF COST THE LEARNINGS FROM THIS BOOK WILL NOT ONLY HELP THEM IN DOING THEIR CONVENTIONAL DATA ANALYSES BUT ALSO ENABLE THEM TO PURSUE ADVANCED KNOWLEDGE IN MACHINE LEARNING ALGORITHMS TEXT ANALYTICS AND OTHER NEW GENERATION TECHNIQUES WITH THE SUPPORT OF FREELY ACCESSIBLE OPEN SOURCE PLATFORMS SINCE THE OBJECTIVE OF THE BOOK IS TO EDUCATE THE RESEARCHERS WITH NO PROGRAMMING BACKGROUND WE HAVE MADE EVERY EFFORT TO GIVE HANDS ON EXPERIENCE IN LEARNING SOME BASIC CODING IN PYTHON WHICH IS SUFFICIENT FOR THE READERS TO FOLLOW THE BOOK THE STEP BY STEP PROCEDURE TO DO VARIOUS DATA PROCESSING AND ANALYSIS DESCRIBED IN THIS BOOK WILL MAKE IT EASY FOR THE USERS APART FROM THAT WE HAVE TRIED OUR LEVEL BEST TO GIVE EXPLANATIONS ON SPECIFIC CODES AND HOW THEY PERFORM TO GET US THE DESIRED OUTPUT WE ALSO REQUEST YOU TO GIVE YOU VALUABLE COMMENTS AND SUGGESTIONS ON THE BOOK VIA OUR BLOG SO THAT WE COULD IMPROVE THE SAME IN THE UPCOMING VOLUMES WE COMMIT OURSELVES TO PROVIDING EXPLANATIONS TO THE READERS QUESTIONS RELATED TO THE CODES AND ANALYSIS PROVIDED IN THIS BOOK THE BOOK SPECIFICALLY DEALS WITH DATA SETS OF ROW AND COLUMN FORMAT AS THE GENERAL FORMAT COMMONLY USED IN SOCIAL SCIENCE RESEARCH WHICH MOST OF THE RESEARCHERS ARE FAMILIAR WITH SO WE DO NOT WORK WITH ARRAYS AND DICTIONARIES EXCEPT IN

ONE OR TWO OCCASIONS ONLY TO MAKE YOU FAMILIAR WITH THAT INSTEAD PREFER TO MAKE USE OF EXCEL DATA AND PANDAS DATA FRAME THE BOOK CONSISTS OF THIRTEEN CHAPTERS THE FIRST CHAPTER GIVES AN INTRODUCTION TO PYTHON AND ITS RELEVANCE AND SCOPE IN CONTEMPORARY DATA ANALYSIS CONTEXTS CH 2 TEACHES THE BASICS AND PYTHON CODING CH 3 7 PROVIDE A STEP BY STEP NARRATION OF HOW TO ENTER DATA PROCESS IT PRELIMINARY ANALYSIS AND DATA CLEANING WITH THE HELP OF PYTHON CH 8 9 PRESENT DATA VISUALIZATIONS AND NARRATION TECHNIQUES USING PYTHON CH 10 DEMONSTRATE HOW PYTHON CAN USE FOR STATISTICAL ANALYSIS THE REMAINING CHAPTERS ARE FOCUSING ON GIVING MORE REAL LIFE SITUATIONS IN DATA ANALYSIS AND THE PRACTICAL SOLUTIONS TO HANDLE THEM THE EXERCISES PROVIDED IN THE BOOK ARE SIMILAR TO REAL ANALYSIS SITUATIONS AND THAT WILL HELP THE READER FOR AN EASY TRANSITION TO THE DATA ANALYST JOBS THE AUTHORS HAVE TAKEN UTMOST CARE IDENTIFYING AND PROVIDING SOLUTIONS TO ALL PRACTICAL DIFFICULTIES THE READERS MAY FACE WHILE USING PYTHON FOR DATA ANALYSIS PURPOSE THE AUTHORS HAVE DEVELOPED A SERIES OF CODES AND HAVE INCORPORATED THEM TO MAKE DATA PROCESSING AND ANALYSIS CONVENIENT AND EASY FOR THE RESEARCHERS THE SELF LEARNING MATERIALS GIVEN IN THIS BOOK WILL HELP SOCIAL SCIENCE AND MARKETING RESEARCHERS TO DEEPEN THEIR UNDERSTANDING OF VARIOUS STEPS IN DATA PROCESSING AND ANALYSES AND TO GAIN ADVANCED SKILLS IN USING PYTHON FOR THIS PURPOSE

DATA ANALYSIS FOR SOCIAL SCIENCE AND MARKETING RESEARCH USING PYTHON 2016-05-22

THIS BOOK IS INTENDED TO SERVE AS THE BASIS FOR A FIRST COURSE IN PYTHON PROGRAMMING FOR GRADUATE STUDENTS IN POLITICAL SCIENCE AND RELATED FIELDS THE BOOK INTRODUCES CORE CONCEPTS OF SOFTWARE DEVELOPMENT AND COMPUTER SCIENCE SUCH AS BASIC DATA STRUCTURES E G ARRAYS LISTS DICTIONARIES TREES GRAPHS ALGORITHMS E G SORTING AND ANALYSIS OF COMPUTATIONAL EFFICIENCY IT THEN DEMONSTRATES HOW TO APPLY THESE CONCEPTS TO THE FIELD OF POLITICAL SCIENCE BY WORKING WITH STRUCTURED AND UNSTRUCTURED DATA QUERYING DATABASES AND INTERACTING WITH APPLICATION PROGRAMMING INTERFACES APIS STUDENTS WILL LEARN HOW TO COLLECT MANIPULATE AND EXPLOIT LARGE VOLUMES OF AVAILABLE DATA AND APPLY THEM TO POLITICAL AND SOCIAL RESEARCH QUESTIONS THEY WILL ALSO LEARN BEST PRACTICES FROM THE FIELD OF SOFTWARE DEVELOPMENT SUCH AS VERSION CONTROL AND OBJECT ORIENTED PROGRAMMING INSTRUCTORS WILL BE SUPPLIED WITH IN CLASS EXAMPLE CODE SUGGESTED HOMEWORK ASSIGNMENTS WITH SOLUTIONS AND MATERIAL FOR PRACTICAL LAB SESSIONS

COMPUTATIONAL FRAMEWORKS FOR POLITICAL AND SOCIAL RESEARCH WITH PYTHON

2020-04-22 GAIN PRACTICAL SKILLS IN MACHINE LEARNING FOR FINANCE HEALTHCARE AND RETAIL THIS BOOK USES A HANDS ON APPROACH BY PROVIDING CASE STUDIES FROM EACH OF THESE DOMAINS YOU LL SEE EXAMPLES THAT DEMONSTRATE HOW TO USE MACHINE LEARNING AS A TOOL FOR BUSINESS ENHANCEMENT AS A DOMAIN EXPERT YOU WILL NOT ONLY DISCOVER HOW MACHINE LEARNING IS USED IN FINANCE HEALTHCARE AND RETAIL BUT ALSO WORK THROUGH PRACTICAL CASE STUDIES WHERE MACHINE LEARNING HAS BEEN IMPLEMENTED MACHINE LEARNING APPLICATIONS USING PYTHON IS DIVIDED INTO THREE SECTIONS ONE FOR EACH OF THE DOMAINS HEALTHCARE FINANCE AND RETAIL EACH SECTION STARTS WITH AN OVERVIEW OF MACHINE LEARNING AND KEY TECHNOLOGICAL ADVANCEMENTS IN THAT DOMAIN YOU LL THEN LEARN MORE BY USING CASE STUDIES ON HOW ORGANIZATIONS ARE CHANGING THE GAME IN THEIR CHOSEN MARKETS THIS BOOK HAS PRACTICAL CASE STUDIES WITH PYTHON CODE AND DOMAIN SPECIFIC INNOVATIVE IDEAS FOR MONETIZING MACHINE LEARNING PROVIDED BY PUBLISHER

MACHINE LEARNING APPLICATIONS USING PYTHON 2019 MORE PHYSICISTS TODAY ARE TAKING ON THE ROLE OF SOFTWARE DEVELOPER AS PART OF THEIR RESEARCH BUT SOFTWARE DEVELOPMENT ISN T ALWAYS EASY OR OBVIOUS EVEN FOR PHYSICISTS THIS PRACTICAL BOOK TEACHES ESSENTIAL SOFTWARE DEVELOPMENT SKILLS TO HELP YOU AUTOMATE AND ACCOMPLISH NEARLY ANY ASPECT OF RESEARCH IN A PHYSICS BASED FIELD WRITTEN BY TWO PHDS IN NUCLEAR ENGINEERING THIS BOOK INCLUDES PRACTICAL EXAMPLES DRAWN FROM A WORKING KNOWLEDGE OF PHYSICS CONCEPTS YOU LL LEARN HOW TO USE THE PYTHON PROGRAMMING LANGUAGE TO PERFORM EVERYTHING FROM

COLLECTING AND ANALYZING DATA TO BUILDING SOFTWARE AND PUBLISHING YOUR RESULTS IN FOUR PARTS THIS BOOK INCLUDES GETTING STARTED JUMP INTO PYTHON THE COMMAND LINE DATA CONTAINERS FUNCTIONS FLOW CONTROL AND LOGIC AND CLASSES AND OBJECTS GETTING IT DONE LEARN ABOUT REGULAR EXPRESSIONS ANALYSIS AND VISUALIZATION NUMPY STORING DATA IN FILES AND HDF5 IMPORTANT DATA STRUCTURES IN PHYSICS COMPUTING IN PARALLEL AND DEPLOYING SOFTWARE GETTING IT RIGHT BUILD PIPELINES AND SOFTWARE LEARN TO USE LOCAL AND REMOTE VERSION CONTROL AND DEBUG AND TEST YOUR CODE GETTING IT OUT THERE DOCUMENT YOUR CODE PROCESS AND PUBLISH YOUR FINDINGS AND COLLABORATE EFFICIENTLY DIVE INTO SOFTWARE LICENSES OWNERSHIP AND COPYRIGHT PROCEDURES

EFFECTIVE COMPUTATION IN PHYSICS 2015-06-25 GAIN PRACTICAL SKILLS IN MACHINE LEARNING FOR FINANCE HEALTHCARE AND RETAIL THIS BOOK USES A HANDS ON APPROACH BY PROVIDING CASE STUDIES FROM EACH OF THESE DOMAINS YOU LL SEE EXAMPLES THAT DEMONSTRATE HOW TO USE MACHINE LEARNING AS A TOOL FOR BUSINESS ENHANCEMENT AS A DOMAIN EXPERT YOU WILL NOT ONLY DISCOVER HOW MACHINE LEARNING IS USED IN FINANCE HEALTHCARE AND RETAIL BUT ALSO WORK THROUGH PRACTICAL CASE STUDIES WHERE MACHINE LEARNING HAS BEEN IMPLEMENTED MACHINE LEARNING APPLICATIONS USING PYTHON IS DIVIDED INTO THREE SECTIONS ONE FOR EACH OF THE DOMAINS HEALTHCARE FINANCE AND RETAIL EACH SECTION STARTS WITH AN OVERVIEW OF MACHINE LEARNING AND KEY TECHNOLOGICAL ADVANCEMENTS IN THAT DOMAIN YOU LL THEN LEARN MORE BY USING CASE STUDIES ON HOW ORGANIZATIONS ARE CHANGING THE GAME IN THEIR CHOSEN MARKETS THIS BOOK HAS PRACTICAL CASE STUDIES WITH PYTHON CODE AND DOMAIN SPECIFIC INNOVATIVE IDEAS FOR MONETIZING MACHINE LEARNING WHAT YOU WILL LEARN DISCOVER APPLIED MACHINE LEARNING PROCESSES AND PRINCIPLES IMPLEMENT MACHINE LEARNING IN AREAS OF HEALTHCARE FINANCE AND RETAIL AVOID THE PITFALLS OF IMPLEMENTING APPLIED MACHINE LEARNING BUILD PYTHON MACHINE LEARNING EXAMPLES IN THE THREE SUBJECT AREAS WHO THIS BOOK IS FOR DATA SCIENTISTS AND MACHINE LEARNING PROFESSIONALS

MACHINE LEARNING APPLICATIONS USING PYTHON 2018-12-12 THIS BOOK IS ONE OF ITS OWN KIND IT IS NOT AN ENCYCLOPEDIA OR A HANDS ON TUTORIAL THAT TRAPS READERS IN THE TUTORIAL HELL IT IS A DISTILLATION OF JUST ONE COMMON PYTHON USER S LEARNING EXPERIENCE THE EXPERIENCE IS PACKAGED WITH EXCEPTIONAL TEACHING TECHNIQUES CAREFUL DEPENDENCE UNRAVELING AND MOST IMPORTANTLY PASSION LEARNING ADVANCED PYTHON BY STUDYING OPEN SOURCE PROJECTS HELPS READERS OVERCOME THE DIFFICULTY IN THEIR DAY TO DAY TASKS AND SEEK INSIGHTS FROM SOLUTIONS IN FAMOUS OPEN SOURCE PROJECTS DIFFERENT FROM A TECHNICAL MANUAL THIS BOOK MIXES THE TECHNICAL KNOWLEDGE REAL WORLD APPLICATIONS AND MORE THEORETICAL CONTENT PROVIDING READERS WITH A PRACTICAL AND ENGAGING APPROACH TO LEARNING PYTHON THROUGHOUT THIS BOOK READERS WILL LEARN HOW TO WRITE PYTHON CODE THAT IS EFFICIENT READABLE AND MAINTAINABLE COVERING KEY TOPICS SUCH AS DATA STRUCTURES ALGORITHMS OBJECT ORIENTED PROGRAMMING AND MORE THE AUTHOR S PASSION FOR PYTHON SHINES THROUGH IN THIS BOOK MAKING IT AN ENJOYABLE AND INSPIRING READ FOR BOTH BEGINNERS AND EXPERIENCED PROGRAMMERS

LEARNING ADVANCED PYTHON BY STUDYING OPEN SOURCE PROJECTS 2023-11-15 WHAT EXACTLY IS MACHINE LEARNING AND WHY IS IT SO VALUABLE IN THE ONLINE BUSINESS ARE YOU THINKING OF LEARNING PYTHON MACHINE LEARNING THIS BOOK TEACH WELL YOU THE PRACTICAL WAYS TO DO IT BUY THE PAPERBACK VERSION AND GET THE KINDLE BOOK VERSIONS FOR FREE MACHINE LEARNING IS A BRANCH OF AI THAT APPLIED ALGORITHMS TO LEARN FROM DATA AND CREATE PREDICTIONS THIS IS IMPORTANT IN PREDICTING THE WORLD AROUND US PYTHON IS A POPULAR AND OPEN SOURCE PROGRAMMING LANGUAGE IN ADDITION IT IS ONE OF THE MOST APPLIED LANGUAGES IN ARTIFICIAL INTELLIGENCE AND OTHER SCIENTIFIC FIELDS TODAY IT IS A TOP SKILL IN HIGH DEMAND IN THE JOB MARKET MACHINE LEARNING HAS BECOME AN INTEGRAL PART OF MANY COMMERCIAL APPLICATIONS AND RESEARCH PROJECTS USING PYTHON EVEN AS A BEGINNER THIS BOOK WILL TEACH YOU PRACTICAL WAYS TO BUILD YOUR OWN MACHINE LEARNING SOLUTIONS INSIDE INTRODUCTION TO MACHINE

LEARNING WITH PYTHON YOU LL LEARN FUNDAMENTAL CONCEPTS AND APPLICATIONS OF MACHINE LEARNING UNDERSTAND THE VARIOUS CATEGORIES OF MACHINE LEARNING ALGORITHMS SOME OF THE BRANCHES OF ARTIFICIAL INTELLIGENCE THE BASICS OF PYTHON CONCEPTS OF MACHINE LEARNING USING PYTHON PYTHON MACHINE LEARNING APPLICATIONS MACHINE LEARNING CASE STUDIES WITH PYTHON THE WAY THAT PYTHON EVOLVED THROUGHOUT TIME AND MANY MORE THROUGHOUT THE RECENT YEARS ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING HAVE MADE SOME ENORMOUS SIGNIFICANT STRIDES IN TERMS OF UNIVERSAL GLOBAL APPLICABILITY YOU LL DISCOVER THE STEPS REQUIRED TO DEVELOP A SUCCESSFUL MACHINE LEARNING APPLICATION USING PYTHON INTRODUCTION TO MACHINE LEARNING WITH PYTHON IS A STEP BY STEP GUIDE FOR ANY PERSON WHO WANTS TO START LEARNING ARTIFICIAL INTELLIGENCE IT WILL HELP YOU IN PREPARING A SOLID FOUNDATION AND LEARN ANY OTHER HIGH LEVEL COURSES STAY AHEAD AND MAKE A CHOICE THAT WILL LAST IF YOU LIKE TO KNOW MORE SCROLL TO THE TOP AND SELECT BUY NOW BUTTOM BUY THE PAPERBACK VERSION AND GET THE KINDLE BOOK VERSIONS FOR FREE

INTRODUCTION TO MACHINE LEARNING WITH PYTHON 2019-05-04 MASTER THE ESSENTIAL SKILLS NEEDED TO RECOGNIZE AND SOLVE COMPLEX PROBLEMS WITH MACHINE LEARNING AND DEEP LEARNING USING REAL WORLD EXAMPLES THAT LEVERAGE THE POPULAR PYTHON MACHINE LEARNING ECOSYSTEM THIS BOOK IS YOUR PERFECT COMPANION FOR LEARNING THE ART AND SCIENCE OF MACHINE LEARNING TO BECOME A SUCCESSFUL PRACTITIONER THE CONCEPTS TECHNIQUES TOOLS FRAMEWORKS AND METHODOLOGIES USED IN THIS BOOK WILL TEACH YOU HOW TO THINK DESIGN BUILD AND EXECUTE MACHINE LEARNING SYSTEMS AND PROJECTS SUCCESSFULLY PRACTICAL MACHINE LEARNING WITH PYTHON FOLLOWS A STRUCTURED AND COMPREHENSIVE THREE TIERED APPROACH PACKED WITH HANDS ON EXAMPLES AND CODE PART 1 FOCUSES ON UNDERSTANDING MACHINE LEARNING CONCEPTS AND TOOLS THIS INCLUDES MACHINE LEARNING BASICS WITH A BROAD OVERVIEW OF ALGORITHMS TECHNIQUES CONCEPTS AND APPLICATIONS FOLLOWED BY A TOUR OF THE ENTIRE PYTHON MACHINE LEARNING ECOSYSTEM BRIEF GUIDES FOR USEFUL MACHINE LEARNING TOOLS LIBRARIES AND FRAMEWORKS ARE ALSO COVERED PART 2 DETAILS STANDARD MACHINE LEARNING PIPELINES WITH AN EMPHASIS ON DATA PROCESSING ANALYSIS FEATURE ENGINEERING AND MODELING YOU WILL LEARN HOW TO PROCESS WRANGLE SUMMARIZE AND VISUALIZE DATA IN ITS VARIOUS FORMS FEATURE ENGINEERING AND SELECTION METHODOLOGIES WILL BE COVERED IN DETAIL WITH REAL WORLD DATASETS FOLLOWED BY MODEL BUILDING TUNING INTERPRETATION AND DEPLOYMENT PART 3 EXPLORES MULTIPLE REAL WORLD CASE STUDIES SPANNING DIVERSE DOMAINS AND INDUSTRIES LIKE RETAIL TRANSPORTATION MOVIES MUSIC MARKETING COMPUTER VISION AND FINANCE FOR EACH CASE STUDY YOU WILL LEARN THE APPLICATION OF VARIOUS MACHINE LEARNING TECHNIQUES AND METHODS THE HANDS ON EXAMPLES WILL HELP YOU BECOME FAMILIAR WITH STATE OF THE ART MACHINE LEARNING TOOLS AND TECHNIQUES AND UNDERSTAND WHAT ALGORITHMS ARE BEST SUITED FOR ANY PROBLEM PRACTICAL MACHINE LEARNING WITH PYTHON WILL EMPOWER YOU TO START SOLVING YOUR OWN PROBLEMS WITH MACHINE LEARNING TODAY WHAT YOU LL LEARN EXECUTE END TO END MACHINE LEARNING PROJECTS AND SYSTEMS IMPLEMENT HANDS ON EXAMPLES WITH INDUSTRY STANDARD OPEN SOURCE ROBUST MACHINE LEARNING TOOLS AND FRAMEWORKS REVIEW CASE STUDIES DEPICTING APPLICATIONS OF MACHINE LEARNING AND DEEP LEARNING ON DIVERSE DOMAINS AND INDUSTRIES APPLY A WIDE RANGE OF MACHINE LEARNING MODELS INCLUDING REGRESSION CLASSIFICATION AND CLUSTERING UNDERSTAND AND APPLY THE LATEST MODELS AND METHODOLOGIES FROM DEEP LEARNING INCLUDING CNNs RNNs LSTMS AND TRANSFER LEARNING WHO THIS BOOK IS FOR IT PROFESSIONALS ANALYSTS DEVELOPERS DATA SCIENTISTS ENGINEERS GRADUATE STUDENTS

PRACTICAL MACHINE LEARNING WITH PYTHON 2017-12-20 THE POWER OF DATA DRIVES THE DIGITAL ECONOMY OF THE 21ST CENTURY IT HAS BEEN ARGUED THAT DATA IS AS VITAL A RESOURCE AS OIL WAS DURING THE INDUSTRIAL REVOLUTION AN UPWARD TREND IN THE NUMBER OF RESEARCH PUBLICATIONS USING MACHINE LEARNING IN SOME OF THE TOP JOURNALS IN COMBINATION WITH AN INCREASING NUMBER OF ACADEMIC RECRUITERS WITHIN PSYCHOLOGY ASKING FOR PYTHON KNOWLEDGE

FROM APPLICANTS INDICATES A GROWING DEMAND FOR THESE SKILLS IN THE MARKET WHILE THERE ARE PLENTY OF BOOKS COVERING DATA SCIENCE RARELY IF EVER BOOKS IN THE MARKET ADDRESS THE NEED OF SOCIAL SCIENCE STUDENTS WITH NO COMPUTER SCIENCE BACKGROUND THEY ARE TYPICALLY WRITTEN BY ENGINEERS OR COMPUTER SCIENTISTS FOR PEOPLE OF THEIR DISCIPLINE AS A RESULT OFTEN SUCH BOOKS ARE FILLED WITH TECHNICAL JARGON AND EXAMPLES IRRELEVANT TO PSYCHOLOGICAL STUDIES OR PROJECTS IN CONTRAST THIS BOOK WAS WRITTEN BY A PSYCHOLOGIST IN A SIMPLE EASY TO UNDERSTAND WAY THAT IS BRIEF AND ACCESSIBLE THE AIM FOR THIS BOOK WAS TO MAKE THE LEARNING EXPERIENCE ON THIS TOPIC AS SMOOTH AS POSSIBLE FOR PSYCHOLOGY STUDENTS RESEARCHERS WITH NO BACKGROUND IN PROGRAMMING OR DATA SCIENCE COMPLETING THIS BOOK WILL ALSO OPEN UP AN ENORMOUS AMOUNT OF POSSIBILITIES FOR QUANTITATIVE RESEARCHERS IN PSYCHOLOGICAL SCIENCE AS IT WILL ENABLE THEM TO EXPLORE NEWER TYPES OF RESEARCH QUESTIONS

DATA ANALYSIS WITH MACHINE LEARNING FOR PSYCHOLOGISTS 2022-10-17 WORK WITH NATURAL LANGUAGE TOOLS AND TECHNIQUES TO SOLVE REAL WORLD PROBLEMS THIS BOOK FOCUSES ON HOW NATURAL LANGUAGE PROCESSING NLP IS USED IN VARIOUS INDUSTRIES EACH CHAPTER DESCRIBES THE PROBLEM AND SOLUTION STRATEGY THEN PROVIDES AN INTUITIVE EXPLANATION OF HOW DIFFERENT ALGORITHMS WORK AND A DEEPER DIVE ON CODE AND OUTPUT IN PYTHON PRACTICAL NATURAL LANGUAGE PROCESSING WITH PYTHON FOLLOWS A CASE STUDY BASED APPROACH EACH CHAPTER IS DEVOTED TO AN INDUSTRY OR A USE CASE WHERE YOU ADDRESS THE REAL BUSINESS PROBLEMS IN THAT INDUSTRY AND THE VARIOUS WAYS TO SOLVE THEM YOU START WITH VARIOUS TYPES OF TEXT DATA BEFORE FOCUSING ON THE CUSTOMER SERVICE INDUSTRY THE TYPE OF DATA AVAILABLE IN THAT DOMAIN AND THE COMMON NLP PROBLEMS ENCOUNTERED HERE YOU COVER THE BAG OF WORDS MODEL SUPERVISED LEARNING TECHNIQUE AS YOU TRY TO SOLVE THE CASE STUDIES SIMILAR DEPTH IS GIVEN TO OTHER USE CASES SUCH AS ONLINE REVIEWS BOTS FINANCE AND SO ON AS YOU COVER THE PROBLEMS IN THESE INDUSTRIES YOU LL ALSO COVER SENTIMENT ANALYSIS NAMED ENTITY RECOGNITION WORD2VEC WORD SIMILARITIES TOPIC MODELING DEEP LEARNING AND SEQUENCE TO SEQUENCE MODELLING BY THE END OF THE BOOK YOU WILL BE ABLE TO HANDLE ALL TYPES OF NLP PROBLEMS INDEPENDENTLY YOU WILL ALSO BE ABLE TO THINK IN DIFFERENT WAYS TO SOLVE LANGUAGE PROBLEMS CODE AND TECHNIQUES FOR ALL THE PROBLEMS ARE PROVIDED IN THE BOOK YOU WILL BUILD AN UNDERSTANDING OF NLP PROBLEMS IN INDUSTRY GAIN THE KNOW HOW TO SOLVE A TYPICAL NLP PROBLEM USING LANGUAGE BASED MODELS AND MACHINE LEARNING DISCOVER THE BEST METHODS TO SOLVE A BUSINESS PROBLEM USING NLP THE TRIED AND TESTED ONES UNDERSTAND THE BUSINESS PROBLEMS THAT ARE TOUGH TO SOLVE

PRACTICAL NATURAL LANGUAGE PROCESSING WITH PYTHON 2021 EXPLORE THE FUNDAMENTALS OF DATA ANALYSIS AND STATISTICS WITH CASE STUDIES USING PYTHON THIS BOOK WILL SHOW YOU HOW TO CONFIDENTLY WRITE CODE IN PYTHON AND USE VARIOUS PYTHON LIBRARIES AND FUNCTIONS FOR ANALYZING ANY DATASET THE CODE IS PRESENTED IN JUPYTER NOTEBOOKS THAT CAN FURTHER BE ADAPTED AND EXTENDED THIS BOOK IS DIVIDED INTO THREE PARTS PROGRAMMING WITH PYTHON DATA ANALYSIS AND VISUALIZATION AND STATISTICS YOU LL START WITH AN INTRODUCTION TO PYTHON THE SYNTAX FUNCTIONS CONDITIONAL STATEMENTS DATA TYPES AND DIFFERENT TYPES OF CONTAINERS YOU LL THEN REVIEW MORE ADVANCED CONCEPTS LIKE REGULAR EXPRESSIONS HANDLING OF FILES AND SOLVING MATHEMATICAL PROBLEMS WITH PYTHON THE SECOND PART OF THE BOOK WILL COVER PYTHON LIBRARIES USED FOR DATA ANALYSIS THERE WILL BE AN INTRODUCTORY CHAPTER COVERING BASIC CONCEPTS AND TERMINOLOGY AND ONE CHAPTER EACH ON NUMPY THE SCIENTIFIC COMPUTATION LIBRARY PANDAS THE DATA WRANGLING LIBRARY AND VISUALIZATION LIBRARIES LIKE MATPLOTLIB AND SEABORN CASE STUDIES WILL BE INCLUDED AS EXAMPLES TO HELP READERS UNDERSTAND SOME REAL WORLD APPLICATIONS OF DATA ANALYSIS THE FINAL CHAPTERS OF BOOK FOCUS ON STATISTICS ELUCIDATING IMPORTANT PRINCIPLES IN STATISTICS THAT ARE RELEVANT TO DATA SCIENCE THESE TOPICS INCLUDE PROBABILITY BAYES THEOREM PERMUTATIONS AND

COMBINATIONS AND HYPOTHESIS TESTING ANOVA CHI SQUARED TEST Z TEST AND T TEST AND HOW THE SCIPY LIBRARY ENABLES SIMPLIFICATION OF TEDIOUS CALCULATIONS INVOLVED IN STATISTICS WHAT YOU LL LEARN FURTHER YOUR PROGRAMMING AND ANALYTICAL SKILLS WITH PYTHON SOLVE MATHEMATICAL PROBLEMS IN CALCULUS AND SET THEORY AND ALGEBRA WITH PYTHON WORK WITH VARIOUS LIBRARIES IN PYTHON TO STRUCTURE ANALYZE AND VISUALIZE DATA TACKLE REAL LIFE CASE STUDIES USING PYTHON REVIEW ESSENTIAL STATISTICAL CONCEPTS AND USE THE SCIPY LIBRARY TO SOLVE PROBLEMS IN STATISTICS WHO THIS BOOK IS FOR PROFESSIONALS WORKING IN THE FIELD OF DATA SCIENCE INTERESTED IN ENHANCING SKILLS IN PYTHON DATA ANALYSIS AND STATISTICS *A PYTHON DATA ANALYST'S TOOLKIT* 2021-02-21 THIS BOOK FOCUSES ON THE HANDS ON APPROACH TO LEARNING DATA MINING IT SHOWCASES HOW TO USE PYTHON PACKAGES TO FULFILL THE DATA MINING PIPELINE WHICH IS TO COLLECT INTEGRATE MANIPULATE CLEAN PROCESS ORGANIZE AND ANALYZE DATA FOR KNOWLEDGE

DATA MINING WITH PYTHON 2024 THIS INNOVATIVE TEXTBOOK PRESENTS MATERIAL FOR A COURSE ON INDUSTRIAL STATISTICS THAT INCORPORATES PYTHON AS A PEDAGOGICAL AND PRACTICAL RESOURCE DRAWING ON MANY YEARS OF TEACHING AND CONDUCTING RESEARCH IN VARIOUS APPLIED AND INDUSTRIAL SETTINGS THE AUTHORS HAVE CAREFULLY TAILORED THE TEXT TO PROVIDE AN IDEAL BALANCE OF THEORY AND PRACTICAL APPLICATIONS NUMEROUS EXAMPLES AND CASE STUDIES ARE INCORPORATED THROUGHOUT AND COMPREHENSIVE PYTHON APPLICATIONS ARE ILLUSTRATED IN DETAIL A CUSTOM PYTHON PACKAGE IS AVAILABLE FOR DOWNLOAD ALLOWING STUDENTS TO REPRODUCE THESE EXAMPLES AND EXPLORE OTHERS THE FIRST CHAPTERS OF THE TEXT FOCUS ON THE BASIC TOOLS AND PRINCIPLES OF PROCESS CONTROL METHODS OF STATISTICAL PROCESS CONTROL SPC AND MULTIVARIATE SPC NEXT THE AUTHORS EXPLORE THE DESIGN AND ANALYSIS OF EXPERIMENTS QUALITY CONTROL AND THE QUALITY BY DESIGN APPROACH COMPUTER EXPERIMENTS AND CYBER MANUFACTURING AND DIGITAL TWINS THE TEXT THEN GOES ON TO COVER RELIABILITY ANALYSIS ACCELERATED LIFE TESTING AND BAYESIAN RELIABILITY ESTIMATION AND PREDICTION A FINAL CHAPTER CONSIDERS SAMPLING TECHNIQUES AND MEASURES OF INSPECTION EFFECTIVENESS EACH CHAPTER INCLUDES EXERCISES DATA SETS AND APPLICATIONS TO SUPPLEMENT LEARNING INDUSTRIAL STATISTICS A COMPUTER BASED APPROACH WITH PYTHON IS INTENDED FOR A ONE OR TWO SEMESTER ADVANCED UNDERGRADUATE OR GRADUATE COURSE IN ADDITION IT CAN BE USED IN FOCUSED WORKSHOPS COMBINING THEORY APPLICATIONS AND PYTHON IMPLEMENTATIONS RESEARCHERS PRACTITIONERS AND DATA SCIENTISTS WILL ALSO FIND IT TO BE A USEFUL RESOURCE WITH THE NUMEROUS APPLICATIONS AND CASE STUDIES THAT ARE INCLUDED A SECOND CLOSELY RELATED TEXTBOOK IS TITLED MODERN STATISTICS A COMPUTER BASED APPROACH WITH PYTHON IT COVERS TOPICS SUCH AS PROBABILITY MODELS AND DISTRIBUTION FUNCTIONS STATISTICAL INFERENCE AND BOOTSTRAPPING TIME SERIES ANALYSIS AND PREDICTIONS AND SUPERVISED AND UNSUPERVISED LEARNING THESE TEXTS CAN BE USED INDEPENDENTLY OR FOR CONSECUTIVE COURSES THE MISTAT PYTHON PACKAGE CAN BE ACCESSED AT [GEDECK GITHUB IO MISTAT CODE SOLUTIONS](#) INDUSTRIALSTATISTICS THIS BOOK IS PART OF AN IMPRESSIVE AND EXTENSIVE WRITE UP ENTERPRISE ROUGHLY 1 000 PAGES WHICH LED TO TWO BOOKS PUBLISHED BY BIRKH[?] USER THIS BOOK IS ON INDUSTRIAL STATISTICS AN AREA IN WHICH THE AUTHORS ARE RECOGNIZED AS MAJOR EXPERTS THE BOOK COMBINES CLASSICAL METHODS NEVER TO BE FORGOTTEN AND HOT TOPICS LIKE CYBER MANUFACTURING DIGITAL TWINS A B TESTING AND BAYESIAN RELIABILITY IT IS WRITTEN IN A VERY ACCESSIBLE STYLE FOCUSING NOT ONLY ON HOW THE METHODS ARE USED BUT ALSO ON WHY IN PARTICULAR THE USE OF PYTHON THROUGHOUT THE BOOK IS HIGHLY APPRECIATED PYTHON IS PROBABLY THE MOST IMPORTANT PROGRAMMING LANGUAGE USED IN MODERN ANALYTICS THE AUTHORS ARE WARMLY THANKED FOR PROVIDING SUCH A STATE OF THE ART BOOK IT PROVIDES A COMPREHENSIVE ILLUSTRATION OF METHODS AND EXAMPLES BASED ON THE AUTHORS LONGSTANDING EXPERIENCE AND ACCESSIBLE CODE FOR LEARNING AND REUSING IN CLASSROOMS AND ON SITE APPLICATIONS PROFESSOR FABRIZIO RUGGERIRESEARCH DIRECTOR AT THE NATIONAL RESEARCH COUNCIL

ITALY PRESIDENT OF THE INTERNATIONAL SOCIETY FOR BUSINESS AND INDUSTRIAL STATISTICS ISBIS
EDITOR IN CHIEF OF APPLIED STOCHASTIC MODELS IN BUSINESS AND INDUSTRY ASMBI

INDUSTRIAL STATISTICS 2023-06-16 FROM NEWS AND SPEECHES TO INFORMAL CHATTER ON
SOCIAL MEDIA NATURAL LANGUAGE IS ONE OF THE RICHEST AND MOST UNDERUTILIZED SOURCES OF
DATA NOT ONLY DOES IT COME IN A CONSTANT STREAM ALWAYS CHANGING AND ADAPTING IN
CONTEXT IT ALSO CONTAINS INFORMATION THAT IS NOT CONVEYED BY TRADITIONAL DATA SOURCES
THE KEY TO UNLOCKING NATURAL LANGUAGE IS THROUGH THE CREATIVE APPLICATION OF TEXT
ANALYTICS THIS PRACTICAL BOOK PRESENTS A DATA SCIENTIST S APPROACH TO BUILDING LANGUAGE
AWARE PRODUCTS WITH APPLIED MACHINE LEARNING YOU LL LEARN ROBUST REPEATABLE AND
SCALABLE TECHNIQUES FOR TEXT ANALYSIS WITH PYTHON INCLUDING CONTEXTUAL AND LINGUISTIC
FEATURE ENGINEERING VECTORIZATION CLASSIFICATION TOPIC MODELING ENTITY RESOLUTION GRAPH
ANALYSIS AND VISUAL STEERING BY THE END OF THE BOOK YOU LL BE EQUIPPED WITH PRACTICAL
METHODS TO SOLVE ANY NUMBER OF COMPLEX REAL WORLD PROBLEMS PREPROCESS AND VECTORIZE
TEXT INTO HIGH DIMENSIONAL FEATURE REPRESENTATIONS PERFORM DOCUMENT CLASSIFICATION AND
TOPIC MODELING STEER THE MODEL SELECTION PROCESS WITH VISUAL DIAGNOSTICS EXTRACT KEY
PHRASES NAMED ENTITIES AND GRAPH STRUCTURES TO REASON ABOUT DATA IN TEXT BUILD A DIALOG
FRAMEWORK TO ENABLE CHATBOTS AND LANGUAGE DRIVEN INTERACTION USE SPARK TO SCALE
PROCESSING POWER AND NEURAL NETWORKS TO SCALE MODEL COMPLEXITY

APPLIED TEXT ANALYSIS WITH PYTHON 2018-06-11 AS DATA BECOME BIG FAST AND COMPLEX
THE SOFTWARE AND COMPUTING TOOLS NEEDED TO MANAGE AND ANALYSE THEM ARE RAPIDLY
DEVELOPING SOCIAL SCIENTISTS NEED NEW TOOLS TO MEET THESE CHALLENGES TACKLE BIG DATASETS
WHILE ALSO DEVELOPING A MORE NUANCED UNDERSTANDING OF AND CONTROL OVER HOW THESE
COMPUTING TOOLS AND ALGORITHMS ARE IMPLEMENTED PROGRAMMING WITH PYTHON FOR SOCIAL
SCIENTISTS OFFERS A VITAL FOUNDATION TO ONE OF THE MOST POPULAR PROGRAMMING TOOLS IN
COMPUTER SCIENCE SPECIFICALLY FOR SOCIAL SCIENCE RESEARCHERS ASSUMING NO PRIOR CODING
KNOWLEDGE IT GUIDES YOU THROUGH THE FULL RESEARCH PROCESS FROM QUESTION TO PUBLICATION
INCLUDING THE FUNDAMENTALS OF WHY AND HOW TO DO YOUR OWN PROGRAMMING IN SOCIAL
SCIENTIFIC RESEARCH QUESTIONS OF ETHICS AND RESEARCH DESIGN A CLEAR EASY TO FOLLOW HOW
TO GUIDE TO USING PYTHON WITH A WIDE ARRAY OF APPLICATIONS SUCH AS DATA VISUALISATION
SOCIAL MEDIA DATA RESEARCH SOCIAL NETWORK ANALYSIS AND MORE ACCOMPANIED BY NUMEROUS
CODE EXAMPLES SCREENSHOTS SAMPLE DATA SOURCES THIS IS THE TEXTBOOK FOR SOCIAL SCIENTISTS
LOOKING FOR A COMPLETE INTRODUCTION TO PROGRAMMING WITH PYTHON AND INCORPORATING IT
INTO THEIR RESEARCH DESIGN AND ANALYSIS

PROGRAMMING WITH PYTHON FOR SOCIAL SCIENTISTS 2019-12-09 THIS ACCESSIBLE AND
CLASSROOM TESTED TEXTBOOK REFERENCE PRESENTS AN INTRODUCTION TO THE FUNDAMENTALS OF
THE INTERDISCIPLINARY FIELD OF DATA SCIENCE THE COVERAGE SPANS KEY CONCEPTS FROM
STATISTICS MACHINE DEEP LEARNING AND RESPONSIBLE DATA SCIENCE USEFUL TECHNIQUES FOR
NETWORK ANALYSIS AND NATURAL LANGUAGE PROCESSING AND PRACTICAL APPLICATIONS OF DATA
SCIENCE SUCH AS RECOMMENDER SYSTEMS OR SENTIMENT ANALYSIS TOPICS AND FEATURES PROVIDES
NUMEROUS PRACTICAL CASE STUDIES USING REAL WORLD DATA THROUGHOUT THE BOOK SUPPORTS
UNDERSTANDING THROUGH HANDS ON EXPERIENCE OF SOLVING DATA SCIENCE PROBLEMS USING PYTHON
DESCRIBES CONCEPTS TECHNIQUES AND TOOLS FOR STATISTICAL ANALYSIS MACHINE LEARNING GRAPH
ANALYSIS NATURAL LANGUAGE PROCESSING DEEP LEARNING AND RESPONSIBLE DATA SCIENCE REVIEWS
A RANGE OF APPLICATIONS OF DATA SCIENCE INCLUDING RECOMMENDER SYSTEMS AND SENTIMENT
ANALYSIS OF TEXT DATA PROVIDES SUPPLEMENTARY CODE RESOURCES AND DATA AT AN ASSOCIATED
WEBSITE THIS PRACTICALLY FOCUSED TEXTBOOK PROVIDES AN IDEAL INTRODUCTION TO THE FIELD FOR
UPPER TIER UNDERGRADUATE AND BEGINNING GRADUATE STUDENTS FROM COMPUTER SCIENCE
MATHEMATICS STATISTICS AND OTHER TECHNICAL DISCIPLINES THE WORK IS ALSO EMINENTLY
SUITABLE FOR PROFESSIONALS ON CONTINUOUS EDUCATION SHORT COURSES AND TO RESEARCHERS

FOLLOWING SELF STUDY COURSES

INTRODUCTION TO DATA SCIENCE 2024-04-25 GET COMPLETE INSTRUCTIONS FOR MANIPULATING PROCESSING CLEANING AND CRUNCHING DATASETS IN PYTHON UPDATED FOR PYTHON 3.6 THE SECOND EDITION OF THIS HANDS ON GUIDE IS PACKED WITH PRACTICAL CASE STUDIES THAT SHOW YOU HOW TO SOLVE A BROAD SET OF DATA ANALYSIS PROBLEMS EFFECTIVELY YOU WILL LEARN THE LATEST VERSIONS OF PANDAS NUMPY IPYTHON AND JUPYTER IN THE PROCESS WRITTEN BY WES MCKINNEY THE CREATOR OF THE PYTHON PANDAS PROJECT THIS BOOK IS A PRACTICAL MODERN INTRODUCTION TO DATA SCIENCE TOOLS IN PYTHON IT'S IDEAL FOR ANALYSTS NEW TO PYTHON AND FOR PYTHON PROGRAMMERS NEW TO DATA SCIENCE AND SCIENTIFIC COMPUTING DATA FILES AND RELATED MATERIAL ARE AVAILABLE ON GITHUB USE THE IPYTHON SHELL AND JUPYTER NOTEBOOK FOR EXPLORATORY COMPUTING LEARN BASIC AND ADVANCED FEATURES IN NUMPY NUMERICAL PYTHON GET STARTED WITH DATA ANALYSIS TOOLS IN THE PANDAS LIBRARY USE FLEXIBLE TOOLS TO LOAD CLEAN TRANSFORM MERGE AND RESHAPE DATA CREATE INFORMATIVE VISUALIZATIONS WITH MATPLOTLIB APPLY THE PANDAS GROUPBY FACILITY TO SLICE DICE AND SUMMARIZE DATASETS ANALYZE AND MANIPULATE REGULAR AND IRREGULAR TIME SERIES DATA LEARN HOW TO SOLVE REAL WORLD DATA ANALYSIS PROBLEMS WITH THOROUGH DETAILED EXAMPLES

PYTHON FOR DATA ANALYSIS 2017-09-25 IF YOU ARE LOOKING TO MASTER THE FUNDAMENTAL CONCEPTS OF DATA ANALYSIS AND DATA SCIENCE DRIVEN BY THE PYTHON PROGRAMMING LANGUAGE TO DEVELOP A SOLID UNDERSTANDING OF ALL THE LATEST INNOVATIVE TECHNOLOGIES THEN THIS IS JUST THAT ONE COMPREHENSIVE BOOK YOU HAVE BEEN WAITING FOR IF YOU ARE LOOKING TO LEARN HOW TO WRITE EFFECTIVE AND EFFICIENT CODES IN PYTHON AND MASTER THIS EXTREMELY INTUITIVE AND FLEXIBLE PROGRAMMING LANGUAGE THAT CAN BE USED FOR A VARIETY OF CODING PROJECTS INCLUDING MACHINE LEARNING ALGORITHMS WEB APPLICATIONS DATA MINING AND VISUALIZATION GAME DEVELOPMENT THEN THIS IS JUST THE BOOK THAT YOU NEED SOME OF THE HIGHLIGHTS OF THIS BOOK INCLUDE WHAT THE PYTHON LANGUAGE IS ALL ABOUT AND HOW WE ARE ABLE TO UTILIZE IT TO GET A LOT OF CODING DONE A LOOK AT THE DATA ANALYSIS AND HOW WE CAN BENEFIT NO MATTER WHAT INDUSTRY WE ARE HOW PYTHON IS ABLE TO WORK WELL WITH THE DATA ANALYSIS AND WHY IT IS THE NUMBER ONE LANGUAGE TO HELP YOU HANDLE THIS A LOOK AT SOME OF THE STEPS THAT WE ARE ABLE TO UTILIZE WHEN IT COMES TO OUR DATA ANALYSIS SO WE CAN GET IT ALL DONE THE RIGHT WAY HOW TO INSTALL AND USE THE NUMPY LIBRARY ONE OF THE BEST EXTENSIONS WITH PYTHON TO HELP US GET OUR DATA ANALYSIS DONE HOW TO WORK WITH THE PANDAS AND IPYTHON EXTENSIONS SO THAT WE ARE ABLE TO GET THINGS DONE WITH YOUR ANALYSIS THE PRACTICAL USES OF THE DATA ANALYSIS TO HELP YOU GET IT DONE A LOOK AT THE MATPLOTLIB LIBRARY TO HELP YOU CREATE SOME OF YOUR OWN VISUALS WITH YOUR DATA WHEN THE ANALYSIS IS DONE HOW TO WORK WITH DATA VISUALS AND HOW THEY ARE SO IMPORTANT TO YOUR WORK THE FIVE MAJOR STAGES OF THE TDSP LIFECYCLE THAT OUTLINE THE INTERACTIVE STEPS REQUIRED FOR PROJECT EXECUTION ALONG WITH THE DELIVERABLES CREATED AT EACH STAGE INSTALLATION INSTRUCTIONS FOR PYTHON SO YOU CAN DOWNLOAD AND INSTALL PYTHON ON YOUR OPERATING SYSTEM AND GET HANDS ON CODING EXPERIENCE PYTHON CODING CONCEPTS SUCH AS DATA TYPES CLASSES AND OBJECTS VARIABLES NUMBERS CONSTRUCTOR FUNCTIONS BOOLEANS AND MUCH MORE LEARN THE FUNCTIONING OF VARIOUS DATA SCIENCE LIBRARIES LIKE SCIKIT LEARN WHICH HAS EVOLVED AS THE GOLD STANDARD FOR MACHINE LEARNING AND DATA ANALYSIS DEEP DIVE INTO THE MATPLOTLIB LIBRARY WHICH OFFERS VISUALIZATION TOOLS AND SCIENCE COMPUTING MODULES SUPPORTED BY SCIPY AND LEARN HOW TO CREATE VARIOUS GRAPHS USING MATPLOTLIB AND PANDAS LIBRARY LEARN HOW MACHINE LEARNING ALLOWS ANALYSIS OF LARGE VOLUMES OF DATA AND DELIVERS FASTER AND MORE ACCURATE RESULTS OVERVIEW OF FOUR DIFFERENT MACHINE LEARNING ALGORITHMS THAT CAN BE USED TO CATER TO THE AVAILABLE DATA SET AND CREATE A DESIRED MACHINE LEARNING MODEL LEARN HOW COMPANIES ARE ABLE TO EMPLOY A PREDICTIVE ANALYTICS MODEL TO GAIN AN UNDERSTANDING OF CUSTOMER INTERACTIONS WITH THEIR PRODUCTS OR SERVICES BASED ON CUSTOMER'S FEELINGS OR

EMOTIONS SHARED ON THE SOCIAL MEDIA PLATFORMS ALL INDUSTRIES ARE ABLE TO BENEFIT WHEN IT COMES TO WORKING WITH DATA ANALYSIS AND SEEING SOME OF THE RESULTS THAT YOU WOULD LIKE IT IS NOT ALWAYS EASY AND IT IS SOMETHING THAT TAKES LONGER THAN MANY COMPANIES ARE PREPARED HOWEVER WHEN YOU ARE ABLE TO PUT IT ALL TOGETHER AND YOU WORK WITH THE PYTHON LANGUAGE TO GET IT DONE YOU WILL FIND THAT IT CAN PROVIDE YOU WITH SOME INSIGHTS THAT ARE INVALUABLE WHEN YOU ARE READY TO LEARN HOW TO COMPLETE YOUR OWN PYTHON DATA ANALYSIS AND PYTHON DATA SCIENCE MAKE SURE TO CHECK OUT THIS GUIDEBOOK TO HELP YOU GET STARTED EVEN IF YOU HAVE NEVER STUDIED PYTHON LANGUAGE BEFORE YOU CAN LEARN IT QUICKLY SO WHAT ARE YOU WAITING FOR GO TO THE TOP OF THE PAGE AND CLICK BUY NOW

PYTHON PROGRAMMING 2020-03-14 THERE ARE DIFFERENT PROCESSES THAT ARE INCLUDED WITHIN THE MEANING OF THE TERM LEARNING IF YOU REFER TO A DICTIONARY AND LOOK UP THE MEANING OF LEARNING THEN YOU WILL COME ACROSS DIFFERENT PHRASES LIKE TO GAIN KNOWLEDGE UNDERSTANDING OF OR SKILL THROUGH STUDY EXPERIENCE OR INSTRUCTION AND THE CHANGE IN BEHAVIORAL TENDENCIES THROUGH EXPERIENCE IF YOU LOOK AT IT SUPERFICIALLY IN RESPECT TO MACHINES IT IS SAFE TO SAY THAT ANY CHANGE IN THE STRUCTURE OF THE MACHINE THE DATA STORED IN THE MEMORY OR ITS DATA COMPOSITION IN ORDER TO IMPROVE THE EFFICIENCY AND THE EFFECTIVENESS OF THE MACHINE S PERFORMANCE IS AN UNDENIABLE SIGN OF LEARNING IN A MACHINE WHEN YOU START TO DELVE DEEPER INTO THIS SUBJECT ONLY A COUPLE OF THESE CHANGES CAN BE CATEGORIZED AS MACHINE LEARNING IN THIS BOOK YOU WILL LEARN ABOUT MACHINE LEARNING USING PYTHON THE INFORMATION GIVEN IN EACH OF THE CHAPTERS WILL IMPROVE YOUR UNDERSTANDING OF MACHINE LEARNING PROGRAMMING USING PYTHON THE SAMPLE CODES ALONG WITH THE CASE STUDIES WILL ENABLE YOU TO TEST YOUR KNOWLEDGE SO GET STARTED WITH YOUR KNOWLEDGE OF MACHINE LEARNING WITH PYTHON WITH THIS BOOK

MACHINE LEARNING WITH PYTHON: COMPREHENSIVE BEGINNER'S GUIDE TO MACHINE LEARNING IN PYTHON WITH EXERCISES AND CASE STUDIES 2019-02-22 THIS INNOVATIVE TEXTBOOK PRESENTS MATERIAL FOR A COURSE ON MODERN STATISTICS THAT INCORPORATES PYTHON AS A PEDAGOGICAL AND PRACTICAL RESOURCE DRAWING ON MANY YEARS OF TEACHING AND CONDUCTING RESEARCH IN VARIOUS APPLIED AND INDUSTRIAL SETTINGS THE AUTHORS HAVE CAREFULLY TAILORED THE TEXT TO PROVIDE AN IDEAL BALANCE OF THEORY AND PRACTICAL APPLICATIONS NUMEROUS EXAMPLES AND CASE STUDIES ARE INCORPORATED THROUGHOUT AND COMPREHENSIVE PYTHON APPLICATIONS ARE ILLUSTRATED IN DETAIL A CUSTOM PYTHON PACKAGE IS AVAILABLE FOR DOWNLOAD ALLOWING STUDENTS TO REPRODUCE THESE EXAMPLES AND EXPLORE OTHERS THE FIRST CHAPTERS OF THE TEXT FOCUS ON ANALYZING VARIABILITY PROBABILITY MODELS AND DISTRIBUTION FUNCTIONS NEXT THE AUTHORS INTRODUCE STATISTICAL INFERENCE AND BOOTSTRAPPING AND VARIABILITY IN SEVERAL DIMENSIONS AND REGRESSION MODELS THE TEXT THEN GOES ON TO COVER SAMPLING FOR ESTIMATION OF FINITE POPULATION QUANTITIES AND TIME SERIES ANALYSIS AND PREDICTION CONCLUDING WITH TWO CHAPTERS ON MODERN DATA ANALYTIC METHODS EACH CHAPTER INCLUDES EXERCISES DATA SETS AND APPLICATIONS TO SUPPLEMENT LEARNING MODERN STATISTICS A COMPUTER BASED APPROACH WITH PYTHON IS INTENDED FOR A ONE OR TWO SEMESTER ADVANCED UNDERGRADUATE OR GRADUATE COURSE BECAUSE OF THE FOUNDATIONAL NATURE OF THE TEXT IT CAN BE COMBINED WITH ANY PROGRAM REQUIRING DATA ANALYSIS IN ITS CURRICULUM SUCH AS COURSES ON DATA SCIENCE INDUSTRIAL STATISTICS PHYSICAL AND SOCIAL SCIENCES AND ENGINEERING RESEARCHERS PRACTITIONERS AND DATA SCIENTISTS WILL ALSO FIND IT TO BE A USEFUL RESOURCE WITH THE NUMEROUS APPLICATIONS AND CASE STUDIES THAT ARE INCLUDED A SECOND CLOSELY RELATED TEXTBOOK IS TITLED INDUSTRIAL STATISTICS A COMPUTER BASED APPROACH WITH PYTHON IT COVERS TOPICS SUCH AS STATISTICAL PROCESS CONTROL INCLUDING MULTIVARIATE METHODS THE DESIGN OF EXPERIMENTS INCLUDING COMPUTER EXPERIMENTS AND RELIABILITY METHODS INCLUDING BAYESIAN RELIABILITY THESE TEXTS CAN BE USED INDEPENDENTLY OR FOR CONSECUTIVE COURSES THE MISTAT PYTHON PACKAGE CAN BE ACCESSED AT GEDECK GITHUB IO MISTAT CODE SOLUTIONS

MODERN STATISTICS IN THIS BOOK ON MODERN STATISTICS THE LAST TWO CHAPTERS ON MODERN ANALYTIC METHODS CONTAIN WHAT IS VERY POPULAR AT THE MOMENT ESPECIALLY IN MACHINE LEARNING SUCH AS CLASSIFIERS CLUSTERING METHODS AND TEXT ANALYTICS BUT I ALSO APPRECIATE THE PREVIOUS CHAPTERS SINCE I BELIEVE THAT PEOPLE USING MACHINE LEARNING METHODS SHOULD BE AWARE THAT THEY RELY HEAVILY ON STATISTICAL ONES I VERY MUCH APPRECIATE THE MANY WORKED OUT CASES BASED ON THE LONGSTANDING EXPERIENCE OF THE AUTHORS THEY ARE VERY USEFUL TO BETTER UNDERSTAND AND THEN APPLY THE METHODS PRESENTED IN THE BOOK THE USE OF PYTHON CORRESPONDS TO THE BEST PROGRAMMING EXPERIENCE NOWADAYS FOR ALL THESE REASONS I THINK THE BOOK HAS ALSO A BRILLIANT AND IMPACTFUL FUTURE AND I COMMEND THE AUTHORS FOR THAT

PROFESSOR FABRIZIO RUGGERI RESEARCH DIRECTOR AT THE NATIONAL RESEARCH COUNCIL ITALY PRESIDENT OF THE INTERNATIONAL SOCIETY FOR BUSINESS AND INDUSTRIAL STATISTICS ISBIS EDITOR IN CHIEF OF APPLIED STOCHASTIC MODELS IN BUSINESS AND INDUSTRY ASMBI

Modern Statistics 2022-09-20 EXPLORE THE FUNDAMENTALS OF DATA ANALYSIS AND STATISTICS WITH CASE STUDIES USING PYTHON THIS BOOK WILL SHOW YOU HOW TO CONFIDENTLY WRITE CODE IN PYTHON AND USE VARIOUS PYTHON LIBRARIES AND FUNCTIONS FOR ANALYZING ANY DATASET THE CODE IS PRESENTED IN JUPYTER NOTEBOOKS THAT CAN FURTHER BE ADAPTED AND EXTENDED THIS BOOK IS DIVIDED INTO THREE PARTS PROGRAMMING WITH PYTHON DATA ANALYSIS AND VISUALIZATION AND STATISTICS YOU LL START WITH AN INTRODUCTION TO PYTHON THE SYNTAX FUNCTIONS CONDITIONAL STATEMENTS DATA TYPES AND DIFFERENT TYPES OF CONTAINERS YOU LL THEN REVIEW MORE ADVANCED CONCEPTS LIKE REGULAR EXPRESSIONS HANDLING OF FILES AND SOLVING MATHEMATICAL PROBLEMS WITH PYTHON THE SECOND PART OF THE BOOK WILL COVER PYTHON LIBRARIES USED FOR DATA ANALYSIS THERE WILL BE AN INTRODUCTORY CHAPTER COVERING BASIC CONCEPTS AND TERMINOLOGY AND ONE CHAPTER EACH ON NUMPY THE SCIENTIFIC COMPUTATION LIBRARY PANDAS THE DATA WRANGLING LIBRARY AND VISUALIZATION LIBRARIES LIKE MATPLOTLIB AND SEABORN CASE STUDIES WILL BE INCLUDED AS EXAMPLES TO HELP READERS UNDERSTAND SOME REAL WORLD APPLICATIONS OF DATA ANALYSIS THE FINAL CHAPTERS OF BOOK FOCUS ON STATISTICS ELUCIDATING IMPORTANT PRINCIPLES IN STATISTICS THAT ARE RELEVANT TO DATA SCIENCE THESE TOPICS INCLUDE PROBABILITY BAYES THEOREM PERMUTATIONS AND COMBINATIONS AND HYPOTHESIS TESTING ANOVA CHI SQUARED TEST Z TEST AND T TEST AND HOW THE SCIPY LIBRARY ENABLES SIMPLIFICATION OF TEDIOUS CALCULATIONS INVOLVED IN STATISTICS YOU WILL FURTHER YOUR PROGRAMMING AND ANALYTICAL SKILLS WITH PYTHON SOLVE MATHEMATICAL PROBLEMS IN CALCULUS AND SET THEORY AND ALGEBRA WITH PYTHON WORK WITH VARIOUS LIBRARIES IN PYTHON TO STRUCTURE ANALYZE AND VISUALIZE DATA TACKLE REAL LIFE CASE STUDIES USING PYTHON REVIEW ESSENTIAL STATISTICAL CONCEPTS AND USE THE SCIPY LIBRARY TO SOLVE PROBLEMS IN STATISTICS

A PYTHON DATA ANALYST'S TOOLKIT 2021 GAIN INSIGHT INTO FUZZY LOGIC AND NEURAL NETWORKS AND HOW THE INTEGRATION BETWEEN THE TWO MODELS MAKES INTELLIGENT SYSTEMS IN THE CURRENT WORLD THIS BOOK SIMPLIFIES THE IMPLEMENTATION OF FUZZY LOGIC AND NEURAL NETWORK CONCEPTS USING PYTHON YOU LL START BY WALKING THROUGH THE BASICS OF FUZZY SETS AND RELATIONS AND HOW EACH MEMBER OF THE SET HAS ITS OWN MEMBERSHIP FUNCTION VALUES YOU LL ALSO LOOK AT DIFFERENT ARCHITECTURES AND MODELS THAT HAVE BEEN DEVELOPED AND HOW RULES AND REASONING HAVE BEEN DEFINED TO MAKE THE ARCHITECTURES POSSIBLE THE BOOK THEN PROVIDES A CLOSER LOOK AT NEURAL NETWORKS AND RELATED ARCHITECTURES FOCUSING ON THE VARIOUS ISSUES NEURAL NETWORKS MAY ENCOUNTER DURING TRAINING AND HOW DIFFERENT OPTIMIZATION METHODS CAN HELP YOU RESOLVE THEM IN THE LAST SECTION OF THE BOOK YOU LL EXAMINE THE INTEGRATIONS OF FUZZY LOGICS AND NEURAL NETWORKS THE ADAPTIVE NEURO FUZZY INFERENCE SYSTEMS AND VARIOUS APPROXIMATIONS RELATED TO THE SAME YOU LL REVIEW DIFFERENT TYPES OF DEEP NEURO FUZZY CLASSIFIERS FUZZY NEURONS AND THE ADAPTIVE LEARNING CAPABILITY OF THE NEURAL NETWORKS THE BOOK CONCLUDES BY REVIEWING ADVANCED NEURO FUZZY MODELS AND APPLICATIONS WHAT YOU LL LEARN UNDERSTAND FUZZY LOGIC MEMBERSHIP FUNCTIONS FUZZY

RELATIONS AND FUZZY INFERENCE REVIEW NEURAL NETWORKS BACK PROPAGATION AND OPTIMIZATION WORK WITH DIFFERENT ARCHITECTURES SUCH AS TAKAGI SUGENO MODEL HYBRID MODEL GENETIC ALGORITHMS AND APPROXIMATIONS APPLY PYTHON IMPLEMENTATIONS OF DEEP NEURO FUZZY SYSTEM WHO THIS BOOK IS FOR DATA SCIENTISTS AND SOFTWARE ENGINEERS WITH A BASIC UNDERSTANDING OF MACHINE LEARNING WHO WANT TO EXPAND INTO THE HYBRID APPLICATIONS OF DEEP LEARNING AND FUZZY LOGIC

DEEP NEURO-FUZZY SYSTEMS WITH PYTHON 2019-11-30 book 1 PRACTICAL DATA SCIENCE PROGRAMMING FOR MEDICAL DATASETS ANALYSIS AND PREDICTION WITH PYTHON GUI IN THIS BOOK YOU WILL IMPLEMENT TWO DATA SCIENCE PROJECTS USING SCIKIT LEARN SCIPY AND OTHER LIBRARIES WITH PYTHON GUI IN PROJECT 1 YOU WILL LEARN HOW TO USE SCIKIT LEARN NUMPY PANDAS SEABORN AND OTHER LIBRARIES TO PERFORM HOW TO PREDICT EARLY STAGE DIABETES USING EARLY STAGE DIABETES RISK PREDICTION DATASET PROVIDED BY KAGGLE THIS DATASET CONTAINS THE SIGN AND SYMPTOM DATA OF NEWLY DIABETIC OR WOULD BE DIABETIC PATIENT THIS HAS BEEN COLLECTED USING DIRECT QUESTIONNAIRES FROM THE PATIENTS OF SYLHET DIABETES HOSPITAL IN SYLHET BANGLADESH AND APPROVED BY A DOCTOR YOU WILL DEVELOP A GUI USING PYQT5 TO PLOT DISTRIBUTION OF FEATURES FEATURE IMPORTANCE CROSS VALIDATION SCORE AND PREDICED VALUES VERSUS TRUE VALUES THE MACHINE LEARNING MODELS USED IN THIS PROJECT ARE ADABOOST RANDOM FOREST GRADIENT BOOSTING LOGISTIC REGRESSION AND SUPPORT VECTOR MACHINE IN PROJECT 2 YOU WILL LEARN HOW TO USE SCIKIT LEARN NUMPY PANDAS AND OTHER LIBRARIES TO PERFORM HOW TO ANALYZE AND PREDICT BREAST CANCER USING BREAST CANCER PREDICTION DATASET PROVIDED BY KAGGLE WORLDWIDE BREAST CANCER IS THE MOST COMMON TYPE OF CANCER IN WOMEN AND THE SECOND HIGHEST IN TERMS OF MORTALITY RATES DIAGNOSIS OF BREAST CANCER IS PERFORMED WHEN AN ABNORMAL LUMP IS FOUND FROM SELF EXAMINATION OR X RAY OR A TINY SPECK OF CALCIUM IS SEEN ON AN X RAY AFTER A SUSPICIOUS LUMP IS FOUND THE DOCTOR WILL CONDUCT A DIAGNOSIS TO DETERMINE WHETHER IT IS CANCEROUS AND IF SO WHETHER IT HAS SPREAD TO OTHER PARTS OF THE BODY THIS BREAST CANCER DATASET WAS OBTAINED FROM THE UNIVERSITY OF WISCONSIN HOSPITALS MADISON FROM DR WILLIAM H WOLBERG YOU WILL DEVELOP A GUI USING PYQT5 TO PLOT DISTRIBUTION OF FEATURES PAIRWISE RELATIONSHIP TEST SCORES PREDICED VALUES VERSUS TRUE VALUES CONFUSION MATRIX AND DECISION BOUNDARY THE MACHINE LEARNING MODELS USED IN THIS PROJECT ARE K NEAREST NEIGHBOR RANDOM FOREST NAIVE BAYES LOGISTIC REGRESSION DECISION TREE AND SUPPORT VECTOR MACHINE book 2 STEP BY STEP TUTORIALS FOR DATA SCIENCE WITH PYTHON GUI TRAFFIC AND HEART ATTACK ANALYSIS AND PREDICTION IN THIS BOOK YOU WILL IMPLEMENT TWO DATA SCIENCE PROJECTS USING SCIKIT LEARN SCIPY AND OTHER LIBRARIES WITH PYTHON GUI IN CHAPTER 1 YOU WILL LEARN HOW TO USE SCIKIT LEARN SCIPY AND OTHER LIBRARIES TO PERFORM HOW TO PREDICT TRAFFIC NUMBER OF VEHICLES IN FOUR DIFFERENT JUNCTIONS USING TRAFFIC PREDICTION DATASET PROVIDED BY KAGGLE THIS DATASET CONTAINS 48 1k 48120 OBSERVATIONS OF THE NUMBER OF VEHICLES EACH HOUR IN FOUR DIFFERENT JUNCTIONS 1 DATETIME 2 JUCTION 3 VEHICLES AND 4 ID IN CHAPTER 2 YOU WILL LEARN HOW TO USE SCIKIT LEARN NUMPY PANDAS AND OTHER LIBRARIES TO PERFORM HOW TO ANALYZE AND PREDICT HEART ATTACK USING HEART ATTACK ANALYSIS PREDICTION DATASET PROVIDED BY KAGGLE book 3 BRAIN TUMOR ANALYSIS CLASSIFICATION AND DETECTION USING MACHINE LEARNING AND DEEP LEARNING WITH PYTHON GUI IN THIS PROJECT YOU WILL LEARN HOW TO USE SCIKIT LEARN TENSORFLOW KERAS NUMPY PANDAS SEABORN AND OTHER LIBRARIES TO IMPLEMENT BRAIN TUMOR CLASSIFICATION AND DETECTION WITH MACHINE LEARNING USING BRAIN TUMOR DATASET PROVIDED BY KAGGLE THIS DATASET CONTAINS FIVE FIRST ORDER FEATURES MEAN THE CONTRIBUTION OF INDIVIDUAL PIXEL INTENSITY FOR THE ENTIRE IMAGE VARIANCE USED TO FIND HOW EACH PIXEL VARIES FROM THE NEIGHBORING PIXEL 0 STANDARD DEVIATION THE DEVIATION OF MEASURED VALUES OR THE DATA FROM ITS MEAN SKEWNESS MEASURES OF SYMMETRY AND KURTOSIS DESCRIBES THE PEAK OF E G A FREQUENCY DISTRIBUTION IT ALSO CONTAINS EIGHT SECOND ORDER FEATURES CONTRAST ENERGY ASM ANGULAR SECOND MOMENT

ENTROPY HOMOGENEITY DISSIMILARITY CORRELATION AND COARSENESS THE MACHINE LEARNING MODELS USED IN THIS PROJECT ARE K NEAREST NEIGHBOR RANDOM FOREST NAIVE BAYES LOGISTIC REGRESSION DECISION TREE AND SUPPORT VECTOR MACHINE THE DEEP LEARNING MODELS USED IN THIS PROJECT ARE MOBILENET AND RESNET50 IN THIS PROJECT YOU WILL DEVELOP A GUI USING PYQT5 TO PLOT BOUNDARY DECISION ROC DISTRIBUTION OF FEATURES FEATURE IMPORTANCE CROSS VALIDATION SCORE AND PREDICTED VALUES VERSUS TRUE VALUES CONFUSION MATRIX TRAINING LOSS AND TRAINING ACCURACY

DATA SCIENCE FOR PROGRAMMER: A PROJECT-BASED APPROACH WITH PYTHON GUI 2021-08-19

THIS COMPREHENSIVE GUIDE PROVIDES A STEP BY STEP APPROACH TO DATA COLLECTION CLEANING FORMATTING AND STORAGE USING PYTHON AND R

INTRODUCTION TO DATA SCIENCE FOR SOCIAL AND POLICY RESEARCH 2017-09-21

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