

COURSE TEXT BOOK GETTING STARTED WITH DATA SCIENCE

DATA SCIENCE AND BIG DATA ANALYTICS DATA SCIENCE DATA SCIENCE WORKFLOW FOR BEGINNERS FUNDAMENTALS OF DATA SCIENCE GETTING STARTED WITH DATA SCIENCE A HANDS-ON INTRODUCTION TO DATA SCIENCE DATA SCIENCE HANDBOOK PRINCIPLES OF DATA SCIENCE THE DATA SCIENCE HANDBOOK DATA SCIENCE ESSENTIALS FOR DUMMIES A FRIENDLY GUIDE TO DATA SCIENCE CLEANING DATA FOR EFFECTIVE DATA SCIENCE DATA SCIENCE DATA SCIENCE FOR BEGINNERS DATA SCIENCE THINK LIKE A DATA SCIENTIST AN INTRODUCTION TO DATA SCIENCE DATA SCIENCE AND ANALYTICS (WITH PYTHON, R AND SPSS PROGRAMMING) DATA SCIENCE 101 THE ESSENTIALS OF DATA SCIENCE: KNOWLEDGE DISCOVERY USING R EMC EDUCATION SERVICES VIJAY KOTU ALEJANDRO GARCIA SANJEEV J. WAGH MURTAZA HAIDER CHIRAG SHAH KOLLA BHANU PRAKASH SINAN OZDEMIR CARL SHAN LILLIAN PIERSON KELLY P. VINCENT DAVID MERTZ JOHN D. KELLEHER PROF JOHN SMITH BENJAMIN SMITH BRIAN GODSEY JEFFREY S. SALTZ V.K. JAIN ANDREW PARK GRAHAM J. WILLIAMS

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DATA SCIENCE AND BIG DATA ANALYTICS IS ABOUT HARNESSING THE POWER OF DATA FOR NEW INSIGHTS THE BOOK COVERS THE BREADTH OF ACTIVITIES AND METHODS AND TOOLS THAT DATA SCIENTISTS USE THE CONTENT FOCUSES ON CONCEPTS PRINCIPLES AND PRACTICAL APPLICATIONS THAT ARE APPLICABLE TO ANY INDUSTRY AND TECHNOLOGY ENVIRONMENT AND THE LEARNING IS SUPPORTED AND EXPLAINED WITH EXAMPLES THAT YOU CAN REPLICATE USING OPEN SOURCE SOFTWARE THIS BOOK WILL HELP YOU BECOME A CONTRIBUTOR ON A DATA SCIENCE TEAM DEPLOY A STRUCTURED LIFECYCLE APPROACH TO DATA ANALYTICS PROBLEMS APPLY APPROPRIATE ANALYTIC TECHNIQUES AND TOOLS TO ANALYZING BIG DATA LEARN HOW TO TELL A COMPELLING STORY WITH DATA TO DRIVE BUSINESS ACTION PREPARE FOR EMC PROVEN PROFESSIONAL DATA SCIENCE CERTIFICATION GET STARTED DISCOVERING ANALYZING VISUALIZING AND PRESENTING DATA IN A MEANINGFUL WAY TODAY

LEARN THE BASICS OF DATA SCIENCE THROUGH AN EASY TO UNDERSTAND CONCEPTUAL FRAMEWORK AND IMMEDIATELY PRACTICE USING RAPIDMINER PLATFORM WHETHER YOU ARE BRAND NEW TO DATA SCIENCE OR WORKING ON YOUR TENTH PROJECT THIS BOOK WILL SHOW YOU HOW TO ANALYZE DATA UNCOVER HIDDEN PATTERNS AND RELATIONSHIPS TO AID IMPORTANT DECISIONS AND PREDICTIONS DATA SCIENCE HAS BECOME AN ESSENTIAL TOOL TO EXTRACT VALUE FROM DATA FOR ANY ORGANIZATION THAT COLLECTS STORES AND PROCESSES DATA AS PART OF ITS OPERATIONS THIS BOOK IS IDEAL FOR BUSINESS USERS DATA ANALYSTS BUSINESS ANALYSTS ENGINEERS AND ANALYTICS PROFESSIONALS AND FOR ANYONE WHO WORKS WITH DATA YOU LL BE ABLE TO GAIN THE NECESSARY KNOWLEDGE OF DIFFERENT DATA SCIENCE TECHNIQUES TO EXTRACT VALUE FROM DATA MASTER THE CONCEPTS AND INNER WORKINGS OF 30 COMMONLY USED POWERFUL DATA SCIENCE ALGORITHMS IMPLEMENT STEP BY STEP DATA

SCIENCE PROCESS USING USING RAPIDMINER AN OPEN SOURCE GUI BASED DATA SCIENCE PLATFORM DATA SCIENCE TECHNIQUES COVERED EXPLORATORY DATA ANALYSIS VISUALIZATION DECISION TREES RULE INDUCTION K NEAREST NEIGHBORS NAIVE BAYESIAN CLASSIFIERS ARTIFICIAL NEURAL NETWORKS DEEP LEARNING SUPPORT VECTOR MACHINES ENSEMBLE MODELS RANDOM FORESTS REGRESSION RECOMMENDATION ENGINES ASSOCIATION ANALYSIS K MEANS AND DENSITY BASED CLUSTERING SELF ORGANIZING MAPS TEXT MINING TIME SERIES FORECASTING ANOMALY DETECTION FEATURE SELECTION AND MORE CONTAINS FULLY UPDATED CONTENT ON DATA SCIENCE INCLUDING TACTICS ON HOW TO MINE BUSINESS DATA FOR INFORMATION PRESENTS SIMPLE EXPLANATIONS FOR OVER TWENTY POWERFUL DATA SCIENCE TECHNIQUES ENABLES THE PRACTICAL USE OF DATA SCIENCE ALGORITHMS WITHOUT THE NEED FOR PROGRAMMING DEMONSTRATES PROCESSES WITH PRACTICAL USE CASES INTRODUCES EACH ALGORITHM OR TECHNIQUE AND EXPLAINS THE WORKINGS OF A DATA SCIENCE ALGORITHM IN PLAIN LANGUAGE DESCRIBES THE COMMONLY USED SETUP OPTIONS FOR THE OPEN SOURCE TOOL RAPIDMINER

THIS BOOK BRINGS TO YOU A SIMPLE YET EFFECTIVE 40 TO 60 MINS INTRODUCTION THAT WILL CLEAR ALL YOUR DOUBTS ABOUT DATA SCIENCE AND WILL ANSWER SOME IMPORTANT QUESTIONS LIKE WHAT IS DATA SCIENCE THE BOOK EXPLORES ALL THE INITIAL CONCEPTS A PERSON MIGHT WANT TO KNOW ABOUT THE DATA SCIENCE WORKFLOW THERE S NOT CODING MATH OR STATISTICS REQUIRED TO SUCCESSFULLY UNDERSTAND THE GOALS AND END RESULTS OF THIS PROCESS THIS BOOK TAKES YOU ON AN EXCLUSIVE TOUR OF DATASETS AND SITES TO DOWNLOAD YOUR FIRST DATASETS THEN JUMPS INTO A COMPREHENSIVE AND EASY TO FOLLOW DATA SCIENCE PROCESS LETTING YOU GO THROUGH 3 DATA VISUALIZATION PROJECTS PYTHON CODE UNDERSTANDING IS RECOMMENDED FOR THE DATA VISUALIZATION PROJECTS 40 TO 60 MINS READING TIME 3 DATA VISUALIZATION PROJECTS 10 DATASETS SOURCES 26 QUALITY DATASETS FOR YOUR FIRST VISUALIZATIONS GET THE CODE AND REUSE IN YOUR OWN PROJECTS THE EBOOK COVERS INTRO TO DATA SCIENCE THE WORKFLOW OF DATA SCIENCE DATA SCIENCE AND MACHINE LEARNING DATASETS TO START RIGHT AWAY DATA VISUALIZATION PROJECTS PYTHON CODE UNDERSTANDING RECOMMENDED

FUNDAMENTALS OF DATA SCIENCE IS DESIGNED FOR STUDENTS ACADEMICIANS AND PRACTITIONERS WITH A COMPLETE WALKTHROUGH RIGHT FROM THE FOUNDATIONAL GROUNDWORK REQUIRED TO OUTLINING ALL THE CONCEPTS TECHNIQUES AND TOOLS REQUIRED TO UNDERSTAND DATA SCIENCE DATA SCIENCE IS AN UMBRELLA TERM FOR THE NON TRADITIONAL TECHNIQUES AND TECHNOLOGIES THAT ARE REQUIRED TO COLLECT AGGREGATE PROCESS AND GAIN INSIGHTS FROM MASSIVE DATASETS THIS BOOK OFFERS ALL THE PROCESSES METHODOLOGIES VARIOUS STEPS LIKE DATA ACQUISITION PRE PROCESS MINING PREDICTION AND VISUALIZATION TOOLS FOR EXTRACTING INSIGHTS FROM VAST AMOUNTS OF DATA BY THE USE OF VARIOUS SCIENTIFIC METHODS ALGORITHMS AND PROCESSES READERS WILL LEARN THE STEPS NECESSARY TO CREATE THE APPLICATION WITH SQL NOSQL PYTHON R MATLAB OCTAVE AND TABLUE THIS BOOK PROVIDES A STEPWISE APPROACH TO BUILDING SOLUTIONS TO DATA SCIENCE APPLICATIONS RIGHT FROM UNDERSTANDING THE FUNDAMENTALS PERFORMING DATA ANALYTICS TO WRITING SOURCE CODE ALL THE CONCEPTS ARE DISCUSSED IN SIMPLE ENGLISH TO HELP THE COMMUNITY TO BECOME DATA SCIENTIST WITHOUT MUCH PRE REQUISITE KNOWLEDGE FEATURES SIMPLE STRATEGIES FOR DEVELOPING STATISTICAL MODELS THAT ANALYZE DATA AND DETECT PATTERNS TRENDS AND RELATIONSHIPS IN DATA SETS COMPLETE ROADMAP TO DATA SCIENCE APPROACH WITH DEDICATED SECTIONS WHICH INCLUDES FUNDAMENTALS METHODOLOGY AND TOOLS FOCUSED APPROACH FOR LEARNING AND PRACTICE VARIOUS DATA SCIENCE TOOLS WITH SAMPLE CODE AND EXAMPLES FOR PRACTICE INFORMATION IS PRESENTED IN AN ACCESSIBLE WAY FOR STUDENTS RESEARCHERS AND ACADEMICIANS AND PROFESSIONALS

AN INTRODUCTORY TEXTBOOK OFFERING A LOW BARRIER ENTRY TO DATA SCIENCE THE HANDS ON APPROACH WILL APPEAL TO STUDENTS FROM A RANGE OF DISCIPLINES

DATA SCIENCE HANDBOOK THIS DESK REFERENCE HANDBOOK GIVES A HANDS ON EXPERIENCE ON VARIOUS ALGORITHMS AND POPULAR TECHNIQUES USED IN REAL TIME IN DATA SCIENCE TO ALL RESEARCHERS WORKING IN VARIOUS DOMAINS DATA SCIENCE IS ONE OF THE LEADING RESEARCH DRIVEN AREAS IN THE MODERN ERA IT IS HAVING A CRITICAL ROLE IN HEALTHCARE ENGINEERING EDUCATION MECHATRONICS AND MEDICAL ROBOTICS BUILDING MODELS AND WORKING WITH DATA IS NOT VALUE NEUTRAL WE CHOOSE THE PROBLEMS WITH WHICH WE WORK MAKE ASSUMPTIONS IN THESE MODELS AND DECIDE ON METRICS AND ALGORITHMS FOR THE PROBLEMS THE DATA SCIENTIST IDENTIFIES THE

PROBLEM WHICH CAN BE SOLVED WITH DATA AND EXPERT TOOLS OF MODELING AND CODING THE BOOK STARTS WITH INTRODUCTORY CONCEPTS IN DATA SCIENCE LIKE DATA MUNGING DATA PREPARATION AND TRANSFORMING DATA CHAPTER 2 DISCUSSES DATA VISUALIZATION DRAWING VARIOUS PLOTS AND HISTOGRAMS CHAPTER 3 COVERS MATHEMATICS AND STATISTICS FOR DATA SCIENCE CHAPTER 4 MAINLY FOCUSES ON MACHINE LEARNING ALGORITHMS IN DATA SCIENCE CHAPTER 5 COMPRISES OF OUTLIER ANALYSIS AND DBSCAN ALGORITHM CHAPTER 6 FOCUSES ON CLUSTERING CHAPTER 7 DISCUSSES NETWORK ANALYSIS CHAPTER 8 MAINLY FOCUSES ON REGRESSION AND NAIVE BAYES CLASSIFIER CHAPTER 9 COVERS WEB BASED DATA VISUALIZATIONS WITH PLOTLY CHAPTER 10 DISCUSSES WEB SCRAPING THE BOOK CONCLUDES WITH A SECTION DISCUSSING 19 PROJECTS ON VARIOUS SUBJECTS IN DATA SCIENCE AUDIENCE THE HANDBOOK WILL BE USED BY GRADUATE STUDENTS UP TO RESEARCH SCHOLARS IN COMPUTER SCIENCE AND ELECTRICAL ENGINEERING AS WELL AS INDUSTRY PROFESSIONALS IN A RANGE OF INDUSTRIES SUCH AS HEALTHCARE

LEARN THE TECHNIQUES AND MATH YOU NEED TO START MAKING SENSE OF YOUR DATA ABOUT THIS BOOK ENHANCE YOUR KNOWLEDGE OF CODING WITH DATA SCIENCE THEORY FOR PRACTICAL INSIGHT INTO DATA SCIENCE AND ANALYSIS MORE THAN JUST A MATH CLASS LEARN HOW TO PERFORM REAL WORLD DATA SCIENCE TASKS WITH R AND PYTHON CREATE ACTIONABLE INSIGHTS AND TRANSFORM RAW DATA INTO TANGIBLE VALUE WHO THIS BOOK IS FOR YOU SHOULD BE FAIRLY WELL ACQUAINTED WITH BASIC ALGEBRA AND SHOULD FEEL COMFORTABLE READING SNIPPETS OF R PYTHON AS WELL AS PSEUDO CODE YOU SHOULD HAVE THE URGE TO LEARN AND APPLY THE TECHNIQUES PUT FORTH IN THIS BOOK ON EITHER YOUR OWN DATA SETS OR THOSE PROVIDED TO YOU IF YOU HAVE THE BASIC MATH SKILLS BUT WANT TO APPLY THEM IN DATA SCIENCE OR YOU HAVE GOOD PROGRAMMING SKILLS BUT LACK MATH THEN THIS BOOK IS FOR YOU WHAT YOU WILL LEARN GET TO KNOW THE FIVE MOST IMPORTANT STEPS OF DATA SCIENCE USE YOUR DATA INTELLIGENTLY AND LEARN HOW TO HANDLE IT WITH CARE BRIDGE THE GAP BETWEEN MATHEMATICS AND PROGRAMMING LEARN ABOUT PROBABILITY CALCULUS AND HOW TO USE STATISTICAL MODELS TO CONTROL AND CLEAN YOUR DATA AND DRIVE ACTIONABLE RESULTS BUILD AND EVALUATE BASELINE MACHINE LEARNING MODELS EXPLORE THE MOST EFFECTIVE METRICS TO DETERMINE THE SUCCESS OF YOUR MACHINE LEARNING MODELS CREATE DATA VISUALIZATIONS THAT COMMUNICATE ACTIONABLE INSIGHTS READ AND APPLY MACHINE LEARNING CONCEPTS TO YOUR PROBLEMS AND MAKE ACTUAL PREDICTIONS IN DETAIL NEED TO TURN YOUR SKILLS AT PROGRAMMING INTO EFFECTIVE DATA SCIENCE SKILLS PRINCIPLES OF DATA SCIENCE IS CREATED TO HELP YOU JOIN THE DOTS BETWEEN MATHEMATICS PROGRAMMING AND BUSINESS ANALYSIS WITH THIS BOOK YOU LL FEEL CONFIDENT ABOUT ASKING AND ANSWERING COMPLEX AND SOPHISTICATED QUESTIONS OF YOUR DATA TO MOVE FROM ABSTRACT AND RAW STATISTICS TO ACTIONABLE IDEAS WITH A UNIQUE APPROACH THAT BRIDGES THE GAP BETWEEN MATHEMATICS AND COMPUTER SCIENCE THIS BOOKS TAKES YOU THROUGH THE ENTIRE DATA SCIENCE PIPELINE BEGINNING WITH CLEANING AND PREPARING DATA AND EFFECTIVE DATA MINING STRATEGIES AND TECHNIQUES YOU LL MOVE ON TO BUILD A COMPREHENSIVE PICTURE OF HOW EVERY PIECE OF THE DATA SCIENCE PUZZLE FITS TOGETHER LEARN THE FUNDAMENTALS OF COMPUTATIONAL MATHEMATICS AND STATISTICS AS WELL AS SOME PSEUDOCODE BEING USED TODAY BY DATA SCIENTISTS AND ANALYSTS YOU LL GET TO GRIPS WITH MACHINE LEARNING DISCOVER THE STATISTICAL MODELS THAT HELP YOU TAKE CONTROL AND NAVIGATE EVEN THE DENSEST DATASETS AND FIND OUT HOW TO CREATE POWERFUL VISUALIZATIONS THAT COMMUNICATE WHAT YOUR DATA MEANS STYLE AND APPROACH THIS IS AN EASY TO UNDERSTAND AND ACCESSIBLE TUTORIAL IT IS A STEP BY STEP GUIDE WITH USE CASES EXAMPLES AND ILLUSTRATIONS TO GET YOU WELL VERSED WITH THE CONCEPTS OF DATA SCIENCE ALONG WITH EXPLAINING THE FUNDAMENTALS THE BOOK WILL ALSO INTRODUCE YOU TO SLIGHTLY ADVANCED CONCEPTS LATER ON AND WILL HELP YOU IMPLEMENT THESE TECHNIQUES IN THE REAL WORLD

THE DATA SCIENCE HANDBOOK IS A CURATED COLLECTION OF 25 CANDID HONEST AND INSIGHTFUL INTERVIEWS CONDUCTED WITH SOME OF THE WORLD S TOP DATA SCIENTISTS IN THIS BOOK YOU LL HEAR HOW THE CO CREATOR OF THE TERM DATA SCIENTIST THINKS ABOUT CAREER AND PERSONAL SUCCESS YOU LL HEAR FROM A YOUNG WOMAN WHO CREATED HER OWN DATA SCIENTIST CURRICULUM SUBSEQUENTLY LANDING HER A ROLE IN THE FIELD READERS OF THIS BOOK WILL BE LEFT WITH WAR STORIES WISDOM AND

FEEL CONFIDENT NAVIGATING THE FUNDAMENTALS OF DATA SCIENCE DATA SCIENCE ESSENTIALS FOR DUMMIES IS A QUICK REFERENCE ON THE CORE CONCEPTS OF THE EXPLODING

AND IN DEMAND DATA SCIENCE FIELD WHICH INVOLVES DATA COLLECTION AND WORKING ON DATASET CLEANING PROCESSING AND VISUALIZATION THIS DIRECT AND ACCESSIBLE RESOURCE HELPS YOU BRUSH UP ON KEY TOPICS AND IS RIGHT TO THE POINT ELIMINATING REVIEW MATERIAL WORDY EXPLANATIONS AND FLUFF SO YOU GET WHAT YOU NEED FAST STRENGTHEN YOUR UNDERSTANDING OF DATA SCIENCE BASICS REVIEW WHAT YOU VE ALREADY LEARNED OR PICK UP KEY SKILLS EFFECTIVELY WORK WITH DATA AND PROVIDE ACCESSIBLE MATERIALS TO OTHERS JOG YOUR MEMORY ON THE ESSENTIALS AS YOU WORK AND GET CLEAR ANSWERS TO YOUR QUESTIONS PERFECT FOR SUPPLEMENTING CLASSROOM LEARNING REVIEWING FOR A CERTIFICATION OR STAYING KNOWLEDGEABLE ON THE JOB DATA SCIENCE ESSENTIALS FOR DUMMIES IS A RELIABLE REFERENCE THAT S GREAT TO KEEP ON HAND AS AN EVERYDAY DESK REFERENCE

UNLOCK THE WORLD OF DATA SCIENCE NO CODING REQUIRED CURIOUS ABOUT DATA SCIENCE BUT NOT SURE WHERE TO START THIS BOOK IS A BEGINNER FRIENDLY GUIDE TO WHAT DATA SCIENCE IS AND HOW PEOPLE USE IT IT WALKS YOU THROUGH THE ESSENTIAL TOPICS WHAT DATA ANALYSIS INVOLVES WHICH SKILLS ARE USEFUL AND HOW TERMS LIKE DATA ANALYTICS AND MACHINE LEARNING CONNECT WITHOUT GETTING TOO TECHNICAL TOO FAST DATA SCIENCE ISN T JUST ABOUT CRUNCHING NUMBERS PULLING DATA FROM A DATABASE OR RUNNING FANCY ALGORITHMS IT S ABOUT ASKING THE RIGHT QUESTIONS UNDERSTANDING THE PROCESS FROM START TO FINISH AND KNOWING WHAT S POSSIBLE AND WHAT S NOT THIS BOOK TEACHES YOU ALL OF THAT WHILE ALSO INTRODUCING IMPORTANT TOPICS LIKE ETHICS PRIVACY AND SECURITY BECAUSE WORKING WITH DATA MEANS THINKING ABOUT PEOPLE TOO WHETHER YOU RE A STUDENT EXPLORING NEW SKILLS A PROFESSIONAL NAVIGATING DATA DRIVEN DECISIONS OR SOMEONE CONSIDERING A CAREER CHANGE THIS BOOK IS YOUR FRIENDLY GATEWAY INTO THE WORLD OF DATA SCIENCE ONE OF TODAY S MOST EXCITING FIELDS NO CODING OR PROGRAMMING EXPERIENCE NO PROBLEM YOU LL BUILD A SOLID FOUNDATION AND GAIN THE CONFIDENCE TO ENGAGE WITH DATA SCIENCE CONCEPTS JUST AS AI AND DATA BECOME INCREASINGLY CENTRAL TO EVERYDAY LIFE WHAT YOU WILL LEARN GRASP FOUNDATIONAL STATISTICS AND HOW IT MATTERS IN DATA ANALYSIS AND DATA SCIENCE UNDERSTAND THE DATA SCIENCE PROJECT LIFE CYCLE AND HOW TO MANAGE A DATA SCIENCE PROJECT EXAMINE THE ETHICS OF WORKING WITH DATA AND ITS USE IN DATA ANALYSIS AND DATA SCIENCE UNDERSTAND THE FOUNDATIONS OF DATA SECURITY AND PRIVACY COLLECT STORE PREPARE VISUALIZE AND PRESENT DATA IDENTIFY THE MANY TYPES OF MACHINE LEARNING AND KNOW HOW TO GAUGE PERFORMANCE PREPARE FOR AND FIND A CAREER IN DATA SCIENCE WHO THIS BOOK IS FOR A WIDE RANGE OF READERS WHO ARE CURIOUS ABOUT DATA SCIENCE AND EAGER TO BUILD A STRONG FOUNDATION PERFECT FOR UNDERGRADUATES IN THE EARLY SEMESTERS OF THEIR DATA SCIENCE DEGREES AS IT ASSUMES NO PRIOR PROGRAMMING OR INDUSTRY EXPERIENCE PROFESSIONALS WILL FIND PARTICULAR VALUE IN THE REAL WORLD INSIGHTS SHARED THROUGH PRACTITIONER INTERVIEWS BUSINESS LEADERS CAN USE IT TO BETTER UNDERSTAND WHAT DATA SCIENCE CAN DO FOR THEM AND HOW THEIR TEAMS ARE APPLYING IT AND FOR CAREER CHANGERS THIS BOOK OFFERS A WELCOMING ENTRY POINT INTO THE FIELD HELPING THEM EXPLORE THE LANDSCAPE BEFORE COMMITTING TO MORE INTENSIVE LEARNING PATHS LIKE DEGREES OR BOOT CAMPS

THINK ABOUT YOUR DATA INTELLIGENTLY AND ASK THE RIGHT QUESTIONS KEY FEATURES MASTER DATA CLEANING TECHNIQUES NECESSARY TO PERFORM REAL WORLD DATA SCIENCE AND MACHINE LEARNING TASKS SPOT COMMON PROBLEMS WITH DIRTY DATA AND DEVELOP FLEXIBLE SOLUTIONS FROM FIRST PRINCIPLES TEST AND REFINE YOUR NEWLY ACQUIRED SKILLS THROUGH DETAILED EXERCISES AT THE END OF EACH CHAPTER BOOK DESCRIPTION DATA CLEANING IS THE ALL IMPORTANT FIRST STEP TO SUCCESSFUL DATA SCIENCE DATA ANALYSIS AND MACHINE LEARNING IF YOU WORK WITH ANY KIND OF DATA THIS BOOK IS YOUR GO TO RESOURCE ARMING YOU WITH THE INSIGHTS AND HEURISTICS EXPERIENCED DATA SCIENTISTS HAD TO LEARN THE HARD WAY IN A LIGHT HEARTED AND ENGAGING EXPLORATION OF DIFFERENT TOOLS TECHNIQUES AND DATASETS REAL AND FICTITIOUS PYTHON VETERAN DAVID MERTZ TEACHES YOU THE INS AND OUTS OF DATA PREPARATION AND THE ESSENTIAL QUESTIONS YOU SHOULD BE ASKING OF EVERY PIECE OF DATA YOU WORK WITH USING A MIXTURE OF PYTHON R AND COMMON COMMAND LINE TOOLS CLEANING DATA FOR EFFECTIVE DATA SCIENCE FOLLOWS THE DATA CLEANING PIPELINE FROM START TO END FOCUSING ON HELPING YOU UNDERSTAND THE PRINCIPLES UNDERLYING EACH STEP OF THE PROCESS YOU LL LOOK AT DATA INGESTION OF A VAST RANGE OF TABULAR HIERARCHICAL AND OTHER DATA FORMATS IMPUTE MISSING VALUES DETECT UNRELIABLE DATA AND STATISTICAL ANOMALIES AND GENERATE SYNTHETIC FEATURES THE LONG FORM EXERCISES AT THE END OF EACH CHAPTER LET YOU GET HANDS ON WITH THE SKILLS YOU VE ACQUIRED

ALONG THE WAY ALSO PROVIDING A VALUABLE RESOURCE FOR ACADEMIC COURSES WHAT YOU WILL LEARNINGEST AND WORK WITH COMMON DATA FORMATS LIKE JSON CSV SQL AND NOSQL DATABASES PDF AND BINARY SERIALIZED DATA STRUCTURESUNDERSTAND HOW AND WHY WE USE TOOLS SUCH AS PANDAS SCIPY SCIKIT LEARN TIDYVERSE AND BASHAPPLY USEFUL RULES AND HEURISTICS FOR ASSESSING DATA QUALITY AND DETECTING BIAS LIKE BENFORD S LAW AND THE 68 95 99 7 RULEIDENTIFY AND HANDLE UNRELIABLE DATA AND OUTLIERS EXAMINING Z SCORE AND OTHER STATISTICAL PROPERTIESIMPUTE SENSIBLE VALUES INTO MISSING DATA AND USE SAMPLING TO FIX IMBALANCESUSE DIMENSIONALITY REDUCTION QUANTIZATION ONE HOT ENCODING AND OTHER FEATURE ENGINEERING TECHNIQUES TO DRAW OUT PATTERNS IN YOUR DATAWORK CAREFULLY WITH TIME SERIES DATA PERFORMING DE TRENDING AND INTERPOLATIONWHO THIS BOOK IS FOR THIS BOOK IS DESIGNED TO BENEFIT SOFTWARE DEVELOPERS DATA SCIENTISTS ASPIRING DATA SCIENTISTS TEACHERS AND STUDENTS WHO WORK WITH DATA IF YOU WANT TO IMPROVE YOUR RIGOR IN DATA HYGIENE OR ARE LOOKING FOR A REFRESHER THIS BOOK IS FOR YOU BASIC FAMILIARITY WITH STATISTICS GENERAL CONCEPTS IN MACHINE LEARNING KNOWLEDGE OF A PROGRAMMING LANGUAGE PYTHON OR R AND SOME EXPOSURE TO DATA SCIENCE ARE HELPFUL

A CONCISE INTRODUCTION TO THE EMERGING FIELD OF DATA SCIENCE EXPLAINING ITS EVOLUTION RELATION TO MACHINE LEARNING CURRENT USES DATA INFRASTRUCTURE ISSUES AND ETHICAL CHALLENGES THE GOAL OF DATA SCIENCE IS TO IMPROVE DECISION MAKING THROUGH THE ANALYSIS OF DATA TODAY DATA SCIENCE DETERMINES THE ADS WE SEE ONLINE THE BOOKS AND MOVIES THAT ARE RECOMMENDED TO US ONLINE WHICH EMAILS ARE FILTERED INTO OUR SPAM FOLDERS AND EVEN HOW MUCH WE PAY FOR HEALTH INSURANCE THIS VOLUME IN THE MIT PRESS ESSENTIAL KNOWLEDGE SERIES OFFERS A CONCISE INTRODUCTION TO THE EMERGING FIELD OF DATA SCIENCE EXPLAINING ITS EVOLUTION CURRENT USES DATA INFRASTRUCTURE ISSUES AND ETHICAL CHALLENGES IT HAS NEVER BEEN EASIER FOR ORGANIZATIONS TO GATHER STORE AND PROCESS DATA USE OF DATA SCIENCE IS DRIVEN BY THE RISE OF BIG DATA AND SOCIAL MEDIA THE DEVELOPMENT OF HIGH PERFORMANCE COMPUTING AND THE EMERGENCE OF SUCH POWERFUL METHODS FOR DATA ANALYSIS AND MODELING AS DEEP LEARNING DATA SCIENCE ENCOMPASSES A SET OF PRINCIPLES PROBLEM DEFINITIONS ALGORITHMS AND PROCESSES FOR EXTRACTING NON OBVIOUS AND USEFUL PATTERNS FROM LARGE DATASETS IT IS CLOSELY RELATED TO THE FIELDS OF DATA MINING AND MACHINE LEARNING BUT BROADER IN SCOPE THIS BOOK OFFERS A BRIEF HISTORY OF THE FIELD INTRODUCES FUNDAMENTAL DATA CONCEPTS AND DESCRIBES THE STAGES IN A DATA SCIENCE PROJECT IT CONSIDERS DATA INFRASTRUCTURE AND THE CHALLENGES POSED BY INTEGRATING DATA FROM MULTIPLE SOURCES INTRODUCES THE BASICS OF MACHINE LEARNING AND DISCUSSES HOW TO LINK MACHINE LEARNING EXPERTISE WITH REAL WORLD PROBLEMS THE BOOK ALSO REVIEWS ETHICAL AND LEGAL ISSUES DEVELOPMENTS IN DATA REGULATION AND COMPUTATIONAL APPROACHES TO PRESERVING PRIVACY FINALLY IT CONSIDERS THE FUTURE IMPACT OF DATA SCIENCE AND OFFERS PRINCIPLES FOR SUCCESS IN DATA SCIENCE PROJECTS

DATA SCIENCE FOR BEGINNERS INTRODUCTION TO DATA SCIENCE PYTHON CODING APPLICATION STATISTICS DECISION TREE NEURAL NETWORK AND LINEAR ALGEBRA WHAT THIS BOOK WILL DO FOR YOU WE WILL TALK ABOUT WHAT IS THE NEED FOR DATA SCIENCE AND THEN WHAT EXACTLY IS DATA SCIENCE SOME DEFINITIONS AND UNDERSTAND THE DIFFERENCES BETWEEN DATA SCIENCE AND BUSINESS INTELLIGENCE THEN WE WILL TALK ABOUT THE PREREQUISITES FOR LEARNING DATA SCIENCE AND THEN WHAT DOES THE DATA SCIENTIST DO WHAT ARE THE ACTIVITIES PERFORMED BY A DATA SCIENTIST AS A PART OF HIS DAILY LIFE AND THEN WE WILL TALK ABOUT THE DATA SCIENCE LIFECYCLE WITHA QUICK EXAMPLE AND BRIEFLY TOUCH UPON THE DEMAND OR EVER INCREASING DEMAND FOR DATA SCIENTIST BENEFITS OF DATA SCIENCE DATA SCIENCE AUTOMOBILE DATA SCIENCE AVIATION DATA SCIENCE CAN ALSO BE USED TO MAKE PROMOTIONAL OFFERS CHAPTERS DATA SCIENCE ITS ADVANTAGE DATA SCIENCE ITS DEFINITION PROCESS IN DATA SCIENCE DIFFERENCE BETWEEN BUSINESS INTELLIGENCE AND DATA SCIENCE PREREQUISITES FOR DATA SCIENCE MACHINE LEARNING DATA SCIENCE TOOLS AND SKILLS IN DATA SCIENCE DATA SCIENCE MACHINE LEARNING ALGORITHMS DATA SCIENCE LIFE CYCLE OF A DATA SCIENCE DATA SCIENCE EXPLORATORY DATA ANALYSIS DATA SCIENCE TECHNIQUES FOR EXPLORATORY DATA ANALYSIS

HAVE YOU EVER WONDERED WHAT THE FUSS ABOUT DATA IS ALL ABOUT WHAT DO DATA SCIENTISTS DO WHAT IS MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE

EXACTLY ARE THEY THE SAME DO YOU LOVE WORKING WITH DATA IF YOUR ANSWER IS YES THEN YOU ARE IN THE RIGHT PLACE DATA SCIENCE HELPS MAKE PREDICTIONS AND PROVIDES INSIGHTS BY USING DATA ANALYSIS STATISTICS AND MACHINE LEARNING A DATA SCIENTIST IS AN INDIVIDUAL WHO CAN PERFORM THE DUTIES OF A DATA ANALYST STATISTICIAN AND A MACHINE LEARNING ENGINEER THERE ARE FOUR MAIN PILLARS OF DATA SCIENCE DOMAIN EXPERTISE MATHEMATICS COMMUNICATION AND COMPUTER SCIENCE ONCE YOU GET THE HANG OF THESE FOUR COMPONENTS YOU WILL BE CLOSER TO ENHANCING YOUR OVERALL UNDERSTANDING OF DATA SCIENCE ARE YOU WONDERING HOW YOU CAN DO THIS WELL YOU DON'T HAVE TO LOOK ANY FURTHER BECAUSE THIS BOOK HAS ALL THE ANSWERS YOU NEED FOR LEARNING DATA SCIENCE YOU WILL FIND NUMEROUS RESOURCES ONLINE AND HENCE IT CAN BE VERY OVERWHELMING A GOOD WAY TO LEARN DATA SCIENCE AND TECHNOLOGY RELATED TO IT REGARDING MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE IS TO MAKE A STRUCTURE ON HOW TO GO ABOUT IT AND LEARN THE TOPICS RELATED TO DATA SCIENCE ONE BY ONE THIS BOOK WILL PROVIDE YOU WITH ALL THE INFORMATION YOU NEED ABOUT DATA SCIENCE AND HAS A FEW TIPS AND TRICKS THAT WOULD MAKE YOUR LEARNING EASIER THROUGHOUT THIS BOOK YOU WILL LEARN MORE ABOUT WHAT IS DATA SCIENCE WHY LEARNING DATA SCIENCE IN THE 21ST CENTURY MAKES SENSE TOOLS REQUIRED FOR DATA SCIENCE TECHNICAL AND NON TECHNICAL SKILLS EVERY DATA SCIENTIST MUST HAVE ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING USING TOOLS LIKE HADOOP R PYTHON AND SQL HOW TO CREATE A VISUALIZATION OF THE DATA SET VARIOUS CASES AND APPLICATIONS OF DATA SCIENCE STEP BY STEP EXAMPLES WITH 19 CHAPTERS AND VARIOUS SUBSECTIONS THIS BOOK WILL HELP ANYONE WHO WANTS TO LEARN ABOUT DATA SCIENCE YOU WILL FIND TIPS FOR LEARNING PRE REQUISITES AND ALSO TIPS REGARDING THE USE OF VARIOUS TOOLS AND PROGRAMMING LANGUAGES THAT ARE MENTIONED IN THE BOOK BY THE END OF THIS BOOK YOU WOULD HAVE GATHERED ALL THE NECESSARY INFORMATION THAT WOULD HELP YOU TO BECOME A DATA SCIENTIST THE TIPS WILL BE VERY USEFUL TO YOU DURING PROGRAMMING ANALYZING OR VISUALIZING DATA IF YOU ARE EAGER AND WANT TO LEARN MORE ABOUT DATA SCIENCE TAKE MATTERS INTO YOUR HANDS AND GRAB YOUR COPY TODAY

SUMMARY THINK LIKE A DATA SCIENTIST PRESENTS A STEP BY STEP APPROACH TO DATA SCIENCE COMBINING ANALYTIC PROGRAMMING AND BUSINESS PERSPECTIVES INTO EASY TO DIGEST TECHNIQUES AND THOUGHT PROCESSES FOR SOLVING REAL WORLD DATA CENTRIC PROBLEMS PURCHASE OF THE PRINT BOOK INCLUDES A FREE EBOOK IN PDF KINDLE AND EPUB FORMATS FROM MANNING PUBLICATIONS ABOUT THE TECHNOLOGY DATA COLLECTED FROM CUSTOMERS SCIENTIFIC MEASUREMENTS IOT SENSORS AND SO ON IS VALUABLE ONLY IF YOU UNDERSTAND IT DATA SCIENTISTS REVEL IN THE INTERESTING AND REWARDING CHALLENGE OF OBSERVING EXPLORING ANALYZING AND INTERPRETING THIS DATA GETTING STARTED WITH DATA SCIENCE MEANS MORE THAN MASTERING ANALYTIC TOOLS AND TECHNIQUES HOWEVER THE REAL MAGIC HAPPENS WHEN YOU BEGIN TO THINK LIKE A DATA SCIENTIST THIS BOOK WILL GET YOU THERE ABOUT THE BOOK THINK LIKE A DATA SCIENTIST TEACHES YOU A STEP BY STEP APPROACH TO SOLVING REAL WORLD DATA CENTRIC PROBLEMS BY BREAKING DOWN CAREFULLY CRAFTED EXAMPLES YOU LL LEARN TO COMBINE ANALYTIC PROGRAMMING AND BUSINESS PERSPECTIVES INTO A REPEATABLE PROCESS FOR EXTRACTING REAL KNOWLEDGE FROM DATA AS YOU READ YOU LL DISCOVER OR REMEMBER VALUABLE STATISTICAL TECHNIQUES AND EXPLORE POWERFUL DATA SCIENCE SOFTWARE MORE IMPORTANTLY YOU LL PUT THIS KNOWLEDGE TOGETHER USING A STRUCTURED PROCESS FOR DATA SCIENCE WHEN YOU VE FINISHED YOU LL HAVE A STRONG FOUNDATION FOR A LIFETIME OF DATA SCIENCE LEARNING AND PRACTICE WHAT'S INSIDE THE DATA SCIENCE PROCESS STEP BY STEP HOW TO ANTICIPATE PROBLEMS DEALING WITH UNCERTAINTY BEST PRACTICES IN SOFTWARE AND SCIENTIFIC THINKING ABOUT THE READER READERS NEED BEGINNER PROGRAMMING SKILLS AND KNOWLEDGE OF BASIC STATISTICS ABOUT THE AUTHOR BRIAN GODSEY HAS WORKED IN SOFTWARE ACADEMIA FINANCE AND DEFENSE AND HAS LAUNCHED SEVERAL DATA CENTRIC START UPS TABLE OF CONTENTS PART 1 PREPARING AND GATHERING DATA AND KNOWLEDGE PHILOSOPHIES OF DATA SCIENCE SETTING GOALS BY ASKING GOOD QUESTIONS DATA ALL AROUND US THE VIRTUAL WILDERNESS DATA WRANGLING FROM CAPTURE TO DOMESTICATION DATA ASSESSMENT POKING AND PRODDING PART 2 BUILDING A PRODUCT WITH SOFTWARE AND STATISTICS DEVELOPING A PLAN STATISTICS AND MODELING CONCEPTS AND FOUNDATIONS SOFTWARE STATISTICS IN ACTION SUPPLEMENTARY SOFTWARE BIGGER FASTER MORE EFFICIENT PLAN EXECUTION PUTTING IT ALL TOGETHER PART 3 FINISHING OFF THE PRODUCT AND WRAPPING UP DELIVERING A PRODUCT AFTER PRODUCT DELIVERY PROBLEMS AND REVISIONS WRAPPING UP PUTTING THE PROJECT AWAY

AN INTRODUCTION TO DATA SCIENCE IS AN EASY TO READ GENTLE INTRODUCTION FOR ADVANCED UNDERGRADUATE CERTIFICATE AND GRADUATE STUDENTS COMING FROM A

WIDE RANGE OF BACKGROUNDS INTO THE WORLD OF DATA SCIENCE AFTER INTRODUCING THE BASIC CONCEPTS OF DATA SCIENCE THE BOOK BUILDS ON THESE FOUNDATIONS TO EXPLAIN DATA SCIENCE TECHNIQUES USING THE R PROGRAMMING LANGUAGE AND RSTUDIO FROM THE GROUND UP SHORT CHAPTERS ALLOW INSTRUCTORS TO GROUP CONCEPTS TOGETHER FOR A SEMESTER COURSE AND PROVIDE STUDENTS WITH MANAGEABLE AMOUNTS OF INFORMATION FOR EACH CONCEPT BY TAKING STUDENTS SYSTEMATICALLY THROUGH THE R PROGRAMMING ENVIRONMENT THE BOOK TAKES THE FEAR OUT OF DATA SCIENCE AND FAMILIARIZES STUDENTS WITH THE ENVIRONMENT SO THEY CAN BE SUCCESSFUL WHEN PERFORMING ADVANCED FUNCTIONS THE AUTHORS COVER STATISTICS FROM A CONCEPTUAL STANDPOINT FOCUSING ON HOW TO USE AND INTERPRET STATISTICS RATHER THAN THE MATH BEHIND THE STATISTICS THIS TEXT THEN DEMONSTRATES HOW TO USE DATA EFFECTIVELY AND EFFICIENTLY TO CONSTRUCT MODELS PREDICT OUTCOMES VISUALIZE DATA AND MAKE DECISIONS ACCOMPANYING DIGITAL RESOURCES PROVIDE CODE AND DATASETS FOR INSTRUCTORS AND LEARNERS TO PERFORM A WIDE RANGE OF DATA SCIENCE TASKS

THE BOOK HAS BEEN WRITTEN COMPLETELY AS PER AICTE RECOMMENDED SYLLABUS ON DATA SCIENCES SALIENT FEATURES OF THE BOOK EXPLAINS HOW DATA IS COLLECTED MANAGED AND STORED FOR DATA SCIENCE WITH COMPLETE COURSEWARE FOR UNDERSTAND THE KEY CONCEPTS IN DATA SCIENCE INCLUDING THEIR REAL WORLD APPLICATIONS AND THE TOOLKIT USED BY DATA SCIENTISTS IMPLEMENT DATA COLLECTION AND MANAGEMENT PROVIDED WITH STATE OF THE ARTS SUBJECTWISE WITH ALL REQUIRED TUTORIALS ON R PYTHON AND BOKEH ANACONDA IBM SPSS 21 AND MATPLOTLIB

55 OFF FOR BOOKSTORES NOW AT 21 97 INSTEAD OF 31 97 LAST DAYS YOUR CUSTOMERS WILL NEVER STOP TO USE THIS AMAZING GUIDE DO YOU WANT TO KNOW HOW DATA SCIENCE HELPS IN BUSINESS THIS BOOK WILL DISCUSS EVERYTHING THAT WE NEED TO KNOW WHEN IT COMES TO DATA SCIENCE AND HOW TO COMPLETE THE PROCESS OF DATA SCIENCE WITH PYTHON THERE ARE SO MANY DIFFERENT PARTS THAT COME TOGETHER WHEN WE WORK ON DATA SCIENCE BUT IF YOU ARE ABLE TO PUT IT ALL TOGETHER AND WORK TO REALLY ANALYZE THE INFORMATION THAT YOU HAVE TO BEAT OUT THE COMPETITION YOU WILL FIND THAT DATA SCIENCE WITH PYTHON CAN BE THE RIGHT MOVE FOR YOU WE WILL EXPLORE HOW SO MANY BUSINESSES WILL TAKE THE TIME TO GATHER UP INFORMATION USUALLY FROM A VARIETY OF SOURCES AND THEN WILL BE UNSURE OF WHAT THEY SHOULD DO WITH THAT INFORMATION ONCE THEY HAVE COLLECTED IT WE CAN THEN TAKE A LOOK AT THE DATA LIFE CYCLE AND HOW WE CAN TAKE THAT INFORMATION CLEAN IT OFF ANALYZE IT AND COME UP WITH INSIGHTS AND PREDICTIONS THAT HELP GROW OUR BUSINESS MORE THAN EVER BEFORE WE WILL SPEND THIS TIME LOOKING WHAT PYTHON IS ABOUT HOW TO DOWNLOAD THE PROGRAM ON YOUR CHOSEN OPERATING SYSTEM AND SOME OF THE BASICS THAT COME WITH CODING IN PYTHON THIS GUIDEBOOK WENT THROUGH ALL OF THE STEPS THAT YOU NEED TO KNOW IN ORDER TO GET STARTED WITH DATA SCIENCE AND SOME OF THE BASIC PARTS OF THE PYTHON CODE WE CAN THEN PUT ALL OF THIS TOGETHER IN ORDER TO CREATE THE RIGHT ANALYTICAL ALGORITHM THAT ONCE IT IS TRAINED PROPERLY AND TESTED WITH THE RIGHT KINDS OF DATA WILL WORK TO MAKE PREDICTIONS PROVIDE INFORMATION AND EVEN SHOW US INSIGHTS THAT WERE NEVER POSSIBLE BEFORE AND ALL THAT YOU NEED TO DO TO GET THIS INFORMATION IS TO USE THE STEPS THAT WE OUTLINE AND DISCUSS IN THIS GUIDEBOOK THERE IS A LOT OF BUZZ IN THE BUSINESS WORLD NO MATTER WHAT INDUSTRY IT IS ABOUT MACHINE LEARNING THE PYTHON LANGUAGE AND OF COURSE DATA SCIENCE AND BEING ABLE TO PUT THESE TERMS TOGETHER AND LEARN HOW THEY WORK CAN MAKE A BIG DIFFERENCE IN HOW WELL YOUR BUSINESS WILL DO NOW AND IN THE FUTURE THERE ARE ALREADY A TON OF COMPANIES OUT THERE WHO HAVE BEEN ABLE TO GAIN A COMPETITIVE EDGE WITH DATA SCIENCE AND THE VARIOUS MODELS AND ALGORITHMS OF PYTHON THAT GO WITH IT AND YOU CAN AS WELL THIS BOOK COVERS WHAT IS DATA SCIENCE THE PYTHON CODING LANGUAGE SOME OF THE BASIC CODING IN PYTHON THE BEST PYTHON LIBRARIES TO USE WITH DATA SCIENCE THE BASICS OF JUPYTER AND WHY WE SHOULD USE IT WORKING WITH ANACONDA IN PYTHON THE BASICS OF THE PANDAS LIBRARY WHAT IS WINPYTHON AND HOW CAN WE USE IT COMMON TASKS TO DO IN INFO SCIENCE DIFFERENT DATA TYPES TO WORK WITH THE FUTURE OF DATA SCIENCE AND WHERE IT WILL GO FROM HERE THERE ARE SO MANY GREAT WAYS THAT YOU CAN USE THE DATA YOU HAVE BEEN COLLECTING FOR SOME TIME NOW AND BEING ABLE TO COMPLETE THE PROCESS OF DATA VISUALIZATION WILL ENSURE THAT YOU GET IT ALL DONE WHEN YOU ARE READY TO GET STARTED WITH PYTHON DATA SCIENCE MAKE SURE TO CHECK OUT THIS GUIDEBOOK TO LEARN HOW THERE IS SO MUCH THAT CAN COME INTO PLAY WHEN WE WORK WITH DATA SCIENCE AND IT IS ONE OF THE BEST WAYS FOR A BUSINESS TO

DIFFERENTIATE FROM THE COMPETITION AND ACTUALLY SEE SOME RESULTS IN THE PROCESS AND THE PYTHON LANGUAGE IS A GREAT OPTION TO LEARN TO HELP US ANALYZE AND CREATE A MODEL THAT WORKS WITH THE INFO THAT WE HAVE WHEN WE ARE READY TO LEARN MORE ABOUT DATA SCIENCE AND HOW TO USE THE PYTHON CODING LANGUAGE TO GO WITH IT MAKE SURE TO CHECK OUT THIS GUIDEBOOK TO HELP YOU GET STARTED BUY IT NOW AND LET YOUR CUSTOMERS GET ADDICTED TO THIS AMAZING BOOK

THE ESSENTIALS OF DATA SCIENCE KNOWLEDGE DISCOVERY USING R PRESENTS THE CONCEPTS OF DATA SCIENCE THROUGH A HANDS ON APPROACH USING FREE AND OPEN SOURCE SOFTWARE IT SYSTEMATICALLY DRIVES AN ACCESSIBLE JOURNEY THROUGH DATA ANALYSIS AND MACHINE LEARNING TO DISCOVER AND SHARE KNOWLEDGE FROM DATA BUILDING ON OVER THIRTY YEARS EXPERIENCE IN TEACHING AND PRACTISING DATA SCIENCE THE AUTHOR ENCOURAGES A PROGRAMMING BY EXAMPLE APPROACH TO ENSURE STUDENTS AND PRACTITIONERS ATTUNE TO THE PRACTISE OF DATA SCIENCE WHILE BUILDING THEIR DATA SKILLS PROVEN FRAMEWORKS ARE PROVIDED AS REUSABLE TEMPLATES REAL WORLD CASE STUDIES THEN PROVIDE INSIGHT FOR THE DATA SCIENTIST TO SWIFTLY ADAPT THE TEMPLATES TO NEW TASKS AND DATASETS THE BOOK BEGINS BY INTRODUCING DATA SCIENCE IT THEN REVIEWS R S CAPABILITIES FOR ANALYSING DATA BY WRITING COMPUTER PROGRAMS THESE PROGRAMS ARE DEVELOPED AND EXPLAINED STEP BY STEP FROM ANALYSING AND VISUALISING DATA THE FRAMEWORK MOVES ON TO TRIED AND TESTED MACHINE LEARNING TECHNIQUES FOR PREDICTIVE MODELLING AND KNOWLEDGE DISCOVERY LITERATE PROGRAMMING AND A CONSISTENT STYLE ARE A FOCUS THROUGHOUT THE BOOK

IF YOU ALLY INFATUATION SUCH A REFERRED **COURSE TEXT BOOK GETTING STARTED WITH DATA SCIENCE** BOOKS THAT WILL GIVE YOU WORTH, GET THE ENTIRELY BEST SELLER FROM US CURRENTLY FROM SEVERAL PREFERRED AUTHORS. IF YOU WANT TO COMICAL BOOKS, LOTS OF NOVELS, TALE, JOKES, AND MORE FICTIONS COLLECTIONS ARE ALSO LAUNCHED, FROM BEST SELLER TO ONE OF THE MOST CURRENT RELEASED. YOU MAY NOT BE PERPLEXED TO ENJOY EVERY EBOOK COLLECTIONS COURSE TEXT BOOK GETTING STARTED WITH DATA SCIENCE THAT WE WILL UNCONDITIONALLY OFFER. IT IS NOT ALL BUT THE COSTS. ITS VERY NEARLY WHAT YOU HABIT CURRENTLY. THIS COURSE TEXT BOOK GETTING STARTED WITH DATA SCIENCE, AS ONE OF THE MOST FULL OF ZIP SELLERS HERE WILL TOTALLY BE IN THE MIDDLE OF THE BEST OPTIONS TO REVIEW.

1. WHAT IS A COURSE TEXT BOOK GETTING STARTED WITH DATA SCIENCE PDF? A PDF (PORTABLE DOCUMENT FORMAT) IS A FILE FORMAT DEVELOPED BY ADOBE THAT PRESERVES THE LAYOUT AND FORMATTING OF A DOCUMENT, REGARDLESS OF THE SOFTWARE, HARDWARE, OR OPERATING SYSTEM USED TO VIEW OR PRINT IT.
2. HOW DO I CREATE A COURSE TEXT BOOK GETTING STARTED WITH DATA SCIENCE PDF? THERE ARE SEVERAL WAYS TO CREATE A PDF:
3. USE SOFTWARE LIKE ADOBE ACROBAT, MICROSOFT WORD, OR GOOGLE DOCS, WHICH OFTEN HAVE BUILT-IN PDF CREATION TOOLS. PRINT TO PDF: MANY APPLICATIONS AND OPERATING SYSTEMS HAVE A "PRINT TO PDF" OPTION THAT ALLOWS YOU TO SAVE A DOCUMENT AS A PDF FILE INSTEAD OF PRINTING IT ON PAPER. ONLINE CONVERTERS: THERE ARE VARIOUS ONLINE TOOLS THAT CAN CONVERT DIFFERENT FILE TYPES TO PDF.
4. HOW DO I EDIT A COURSE TEXT BOOK GETTING STARTED WITH DATA SCIENCE PDF? EDITING A PDF CAN BE DONE WITH SOFTWARE LIKE ADOBE ACROBAT, WHICH ALLOWS DIRECT EDITING OF TEXT, IMAGES, AND OTHER ELEMENTS WITHIN THE PDF. SOME FREE TOOLS, LIKE PDFESCAPE OR SMALLPDF, ALSO OFFER BASIC EDITING CAPABILITIES.
5. HOW DO I CONVERT A COURSE TEXT BOOK GETTING STARTED WITH DATA SCIENCE PDF TO ANOTHER FILE FORMAT? THERE ARE MULTIPLE WAYS TO CONVERT A PDF TO ANOTHER FORMAT:
6. USE ONLINE CONVERTERS LIKE SMALLPDF, ZAMZAR, OR ADOBE ACROBATS EXPORT FEATURE TO CONVERT PDFs TO FORMATS LIKE WORD, EXCEL, JPEG, ETC. SOFTWARE LIKE ADOBE ACROBAT, MICROSOFT WORD, OR OTHER PDF EDITORS MAY HAVE OPTIONS TO EXPORT OR SAVE PDFs IN DIFFERENT FORMATS.
7. HOW DO I PASSWORD-PROTECT A COURSE TEXT BOOK GETTING STARTED WITH DATA SCIENCE PDF? MOST PDF EDITING SOFTWARE ALLOWS YOU TO ADD PASSWORD PROTECTION. IN ADOBE ACROBAT, FOR INSTANCE, YOU CAN GO TO "FILE" -> "PROPERTIES" -> "SECURITY" TO SET A PASSWORD TO RESTRICT ACCESS OR EDITING CAPABILITIES.
8. ARE THERE ANY FREE ALTERNATIVES TO ADOBE ACROBAT FOR WORKING WITH PDFs? YES, THERE ARE MANY FREE ALTERNATIVES FOR WORKING WITH PDFs, SUCH AS:

9. LIBREOFFICE: OFFERS PDF EDITING FEATURES. PDFSAM: ALLOWS SPLITTING, MERGING, AND EDITING PDFs. FOXIT READER: PROVIDES BASIC PDF VIEWING AND EDITING CAPABILITIES.
10. HOW DO I COMPRESS A PDF FILE? YOU CAN USE ONLINE TOOLS LIKE SMALLPDF, ILOVEPDF, OR DESKTOP SOFTWARE LIKE ADOBE ACROBAT TO COMPRESS PDF FILES WITHOUT SIGNIFICANT QUALITY LOSS. COMPRESSION REDUCES THE FILE SIZE, MAKING IT EASIER TO SHARE AND DOWNLOAD.
11. CAN I FILL OUT FORMS IN A PDF FILE? YES, MOST PDF VIEWERS/EDITORS LIKE ADOBE ACROBAT, PREVIEW (ON MAC), OR VARIOUS ONLINE TOOLS ALLOW YOU TO FILL OUT FORMS IN PDF FILES BY SELECTING TEXT FIELDS AND ENTERING INFORMATION.
12. ARE THERE ANY RESTRICTIONS WHEN WORKING WITH PDFs? SOME PDFs MIGHT HAVE RESTRICTIONS SET BY THEIR CREATOR, SUCH AS PASSWORD PROTECTION, EDITING RESTRICTIONS, OR PRINT RESTRICTIONS. BREAKING THESE RESTRICTIONS MIGHT REQUIRE SPECIFIC SOFTWARE OR TOOLS, WHICH MAY OR MAY NOT BE LEGAL DEPENDING ON THE CIRCUMSTANCES AND LOCAL LAWS.

INTRODUCTION

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BENEFITS OF FREE EBOOK SITES

WHEN IT COMES TO READING, FREE EBOOK SITES OFFER NUMEROUS ADVANTAGES.

COST SAVINGS

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THERE ARE COUNTLESS FREE EBOOK SITES, BUT A FEW STAND OUT FOR THEIR QUALITY AND RANGE OF OFFERINGS.

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MANYBOOKS OFFERS A LARGE SELECTION OF FREE EBOOKS IN VARIOUS GENRES. THE SITE IS USER-FRIENDLY AND OFFERS BOOKS IN MULTIPLE FORMATS.

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GENRES AVAILABLE ON FREE EBOOK SITES

THE DIVERSITY OF GENRES AVAILABLE ON FREE EBOOK SITES ENSURES THERE'S SOMETHING FOR EVERYONE.

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USE TOOLS AND APPS TO ORGANIZE YOUR EBOOK COLLECTION, MAKING IT EASY TO FIND AND ACCESS YOUR FAVORITE TITLES.

SYNCING ACROSS DEVICES

MANY EBOOK PLATFORMS ALLOW YOU TO SYNC YOUR LIBRARY ACROSS MULTIPLE DEVICES, SO YOU CAN PICK UP RIGHT WHERE YOU LEFT OFF, NO MATTER WHICH DEVICE YOU'RE USING.

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DESPITE THE BENEFITS, FREE EBOOK SITES COME WITH CHALLENGES AND LIMITATIONS.

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NOT ALL BOOKS ARE AVAILABLE FOR FREE, AND SOMETIMES THE QUALITY OF THE DIGITAL COPY CAN BE POOR.

DIGITAL RIGHTS MANAGEMENT (DRM)

DRM CAN RESTRICT HOW YOU USE THE EBOOKS YOU DOWNLOAD, LIMITING SHARING AND TRANSFERRING BETWEEN DEVICES.

INTERNET DEPENDENCY

ACCESSING AND DOWNLOADING EBOOKS REQUIRES AN INTERNET CONNECTION, WHICH CAN BE A LIMITATION IN AREAS WITH POOR CONNECTIVITY.

FUTURE OF FREE EBOOK SITES

THE FUTURE LOOKS PROMISING FOR FREE EBOOK SITES AS TECHNOLOGY CONTINUES TO ADVANCE.

TECHNOLOGICAL ADVANCES

IMPROVEMENTS IN TECHNOLOGY WILL LIKELY MAKE ACCESSING AND READING EBOOKS EVEN MORE SEAMLESS AND ENJOYABLE.

EXPANDING ACCESS

EFFORTS TO EXPAND INTERNET ACCESS GLOBALLY WILL HELP MORE PEOPLE BENEFIT FROM FREE EBOOK SITES.

ROLE IN EDUCATION

AS EDUCATIONAL RESOURCES BECOME MORE DIGITIZED, FREE EBOOK SITES WILL PLAY AN INCREASINGLY VITAL ROLE IN LEARNING.

CONCLUSION

IN SUMMARY, FREE EBOOK SITES OFFER AN INCREDIBLE OPPORTUNITY TO ACCESS A WIDE RANGE OF BOOKS WITHOUT THE FINANCIAL BURDEN. THEY ARE INVALUABLE RESOURCES FOR READERS OF ALL AGES AND INTERESTS, PROVIDING EDUCATIONAL MATERIALS, ENTERTAINMENT, AND ACCESSIBILITY FEATURES. SO WHY NOT EXPLORE THESE SITES AND DISCOVER THE WEALTH OF KNOWLEDGE THEY OFFER?

FAQs

ARE FREE EBOOK SITES LEGAL? YES, MOST FREE EBOOK SITES ARE LEGAL. THEY TYPICALLY OFFER BOOKS THAT ARE IN THE PUBLIC DOMAIN OR HAVE THE RIGHTS TO DISTRIBUTE THEM. HOW DO I KNOW IF AN EBOOK SITE IS SAFE? STICK TO WELL-KNOWN AND REPUTABLE SITES LIKE PROJECT GUTENBERG, OPEN LIBRARY, AND GOOGLE BOOKS. CHECK REVIEWS AND ENSURE THE SITE HAS PROPER SECURITY MEASURES. CAN I DOWNLOAD EBOOKS TO ANY DEVICE? MOST FREE EBOOK SITES OFFER DOWNLOADS IN MULTIPLE FORMATS, MAKING THEM COMPATIBLE WITH VARIOUS DEVICES LIKE E-READERS, TABLETS, AND SMARTPHONES. DO FREE EBOOK SITES OFFER AUDIOBOOKS? MANY FREE EBOOK SITES OFFER AUDIOBOOKS, WHICH ARE PERFECT FOR THOSE WHO PREFER LISTENING TO THEIR BOOKS. HOW CAN I SUPPORT AUTHORS IF I USE FREE EBOOK SITES? YOU CAN SUPPORT AUTHORS BY PURCHASING THEIR BOOKS WHEN POSSIBLE, LEAVING REVIEWS, AND SHARING THEIR WORK WITH OTHERS.

