# Peppa Pig Script For Kids

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LEARN TO USE APACHE PIG TO DEVELOP LIGHTWEIGHT BIG DATA APPLICATIONS EASILY AND QUICKLY THIS BOOK SHOWS YOU MANY OPTIMIZATION TECHNIQUES AND COVERS EVERY CONTEXT WHERE PIG IS USED IN BIG DATA ANALYTICS BEGINNING APACHE PIG SHOWS YOU HOW PIG IS EASY TO LEARN AND REQUIRES RELATIVELY LITTLE TIME TO DEVELOP BIG DATA APPLICATIONS THE BOOK IS DIVIDED INTO

FOUR PARTS THE COMPLETE FEATURES OF APACHE PIG INTEGRATION WITH OTHER TOOLS HOW TO SOLVE COMPLEX BUSINESS PROBLEMS AND OPTIMIZATION OF TOOLS YOU LL DISCOVER TOPICS SUCH AS MAPREDUCE AND WHY IT CANNOT MEET EVERY BUSINESS NEED THE FEATURES OF PIG LATIN SUCH AS DATA TYPES FOR EACH LOAD STORE JOINS GROUPS AND ORDERING HOW PIG WORKFLOWS CAN BE CREATED SUBMITTING PIG JOBS USING HUE AND WORKING WITH OOZIE YOU LL ALSO SEE HOW TO EXTEND THE FRAMEWORK BY WRITING UDFS AND CUSTOM LOAD STORE AND FILTER FUNCTIONS FINALLY YOU LL COVER DIFFERENT OPTIMIZATION TECHNIQUES SUCH ASGATHERING STATISTICS ABOUT A PIG SCRIPT JOINING STRATEGIES PARALLELISM AND THE ROLE OF DATA FORMATS IN GOOD PERFORMANCE WHAT YOU WILL LEARN USE ALL THE FEATURES OF APACHE PIG INTEGRATE APACHE PIG WITH OTHER TOOLS EXTEND APACHE PIG OPTIMIZE PIG LATIN CODE SOLVE DIFFERENT USE CASES FOR PIG LATINWHO THIS BOOK IS FORALL LEVELS OF IT PROFESSIONALS ARCHITECTS BIG DATA ENTHUSIASTS ENGINEERS DEVELOPERS AND BIG DATA ADMINISTRATORS

FOR MANY ORGANIZATIONS HADOOP IS THE FIRST STEP FOR DEALING WITH MASSIVE AMOUNTS OF DATA THE NEXT STEP PROCESSING AND ANALYZING DATASETS WITH THE APACHE PIG SCRIPTING PLATFORM WITH PIG YOU CAN BATCH PROCESS DATA WITHOUT HAVING TO CREATE A FULL FLEDGED APPLICATION MAKING IT EASY TO EXPERIMENT WITH NEW DATASETS UPDATED WITH USE CASES AND PROGRAMMING EXAMPLES THIS SECOND EDITION IS THE IDEAL LEARNING TOOL FOR NEW AND EXPERIENCED USERS ALIKE YOU LL FIND COMPREHENSIVE COVERAGE ON KEY FEATURES SUCH AS THE PIG LATIN SCRIPTING LANGUAGE AND THE GRUNT SHELL WHEN YOU NEED TO ANALYZE TERABYTES OF DATA THIS BOOK SHOWS YOU HOW TO DO IT EFFICIENTLY WITH PIG DELVE INTO PIG S DATA MODEL INCLUDING SCALAR AND COMPLEX DATA TYPES WRITE PIG LATIN SCRIPTS TO SORT GROUP JOIN PROJECT AND FILTER YOUR DATA USE GRUNT TO WORK WITH THE HADOOP DISTRIBUTED FILE SYSTEM HDFS BUILD COMPLEX DATA PROCESSING PIPELINES WITH PIG S MACROS AND MODULARITY FEATURES EMBED PIG LATIN IN PYTHON FOR ITERATIVE PROCESSING AND OTHER ADVANCED TASKS USE PIG WITH APACHE TEZ TO BUILD HIGH PERFORMANCE BATCH AND INTERACTIVE DATA PROCESSING APPLICATIONS CREATE YOUR OWN LOAD AND STORE FUNCTIONS TO HANDLE DATA FORMATS AND STORAGE MECHANISMS

HADOOP THE DEFINITIVE GUIDE HELPS YOU HARNESS THE POWER OF YOUR DATA IDEAL FOR PROCESSING LARGE DATASETS THE APACHE HADOOP FRAMEWORK IS AN OPEN SOURCE IMPLEMENTATION OF THE MAPREDUCE ALGORITHM ON WHICH GOOGLE BUILT ITS EMPIRE THIS COMPREHENSIVE RESOURCE DEMONSTRATES HOW TO USE HADOOP TO BUILD RELIABLE SCALABLE DISTRIBUTED SYSTEMS PROGRAMMERS WILL FIND DETAILS FOR ANALYZING LARGE DATASETS AND ADMINISTRATORS WILL LEARN HOW TO SET UP AND RUN HADOOP CLUSTERS COMPLETE WITH CASE STUDIES THAT ILLUSTRATE HOW HADOOP SOLVES SPECIFIC PROBLEMS THIS BOOK HELPS YOU USE THE HADOOP DISTRIBUTED FILE SYSTEM HDFS FOR STORING LARGE DATASETS AND RUN DISTRIBUTED COMPUTATIONS OVER THOSE DATASETS USING MAPREDUCE BECOME FAMILIAR WITH HADOOP S DATA AND I O BUILDING BLOCKS FOR COMPRESSION DATA INTEGRITY SERIALIZATION AND PERSISTENCE DISCOVER COMMON PITFALLS AND ADVANCED FEATURES FOR WRITING REAL WORLD MAPREDUCE PROGRAMS DESIGN BUILD AND ADMINISTER A DEDICATED HADOOP CLUSTER OR RUN HADOOP IN THE CLOUD USE PIG A HIGH LEVEL QUERY LANGUAGE FOR LARGE SCALE DATA PROCESSING TAKE ADVANTAGE OF HBASE HADOOP S DATABASE FOR STRUCTURED AND SEMI STRUCTURED DATA LEARN ZOOKEEPER A TOOLKIT OF COORDINATION PRIMITIVES FOR BUILDING DISTRIBUTED SYSTEMS IF YOU HAVE LOTS OF DATA WHETHER IT S GIGABYTES OR PETABYTES HADOOP IS THE PERFECT SOLUTION HADOOP THE DEFINITIVE GUIDE IS THE MOST THOROUGH BOOK AVAILABLE ON THE SUBJECT NOW YOU HAVE THE OPPORTUNITY TO LEARN ABOUT HADOOP FROM A MASTER NOT ONLY OF THE TECHNOLOGY BUT ALSO OF COMMON SENSE AND PLAIN TALK DOUG CUTTING HADOOP FOUNDER YAHOO

YOU CAN CHOOSE SEVERAL DATA ACCESS FRAMEWORKS WHEN BUILDING JAVA ENTERPRISE APPLICATIONS THAT WORK WITH RELATIONAL DATABASES BUT WHAT ABOUT BIG DATA THIS HANDS ON INTRODUCTION SHOWS YOU HOW SPRING DATA MAKES IT RELATIVELY EASY TO BUILD APPLICATIONS ACROSS A WIDE RANGE OF NEW DATA ACCESS TECHNOLOGIES SUCH AS NOSQL AND HADOOP THROUGH SEVERAL SAMPLE PROJECTS YOU LL LEARN HOW SPRING DATA PROVIDES A CONSISTENT PROGRAMMING MODEL THAT RETAINS NOSQL SPECIFIC FEATURES AND CAPABILITIES AND HELPS YOU DEVELOP HADOOP APPLICATIONS ACROSS A WIDE RANGE OF USE CASES SUCH AS DATA ANALYSIS EVENT STREAM PROCESSING AND WORKFLOW YOU LL ALSO DISCOVER THE FEATURES SPRING DATA ADDS TO SPRING S EXISTING JPA AND

JDBC SUPPORT FOR WRITING RDBMS BASED DATA ACCESS LAYERS LEARN ABOUT SPRING S TEMPLATE HELPER CLASSES TO SIMPLIFY THE USE OFDATABASE SPECIFIC FUNCTIONALITY EXPLORE SPRING DATA S REPOSITORY ABSTRACTION AND ADVANCED QUERY FUNCTIONALITY USE SPRING DATA WITH REDIS KEY VALUE STORE HBASE COLUMN FAMILY MONGODB DOCUMENT DATABASE AND NEO4J GRAPH DATABASE DISCOVER THE GEMFIRE DISTRIBUTED DATA GRID SOLUTION EXPORT SPRING DATA JPA MANAGED ENTITIES TO THE AS RESTFUL WEB SERVICES SIMPLIFY THE DEVELOPMENT OF HBASE APPLICATIONS USING A LIGHTWEIGHT OBJECT MAPPING FRAMEWORK BUILD EXAMPLE BIG DATA PIPELINES WITH SPRING BATCH AND SPRING INTEGRATION

EDUGORILLA PUBLICATION IS A TRUSTED NAME IN THE EDUCATION SECTOR COMMITTED TO EMPOWERING LEARNERS WITH HIGH QUALITY STUDY MATERIALS AND RESOURCES SPECIALIZING IN COMPETITIVE EXAMS AND ACADEMIC SUPPORT EDUGORILLA PROVIDES COMPREHENSIVE AND WELL STRUCTURED CONTENT TAILORED TO MEET THE NEEDS OF STUDENTS ACROSS VARIOUS STREAMS AND LEVELS

HADOOP IN ACTION TEACHES READERS HOW TO USE HADOOP AND WRITE MAPREDUCE PROGRAMS THE INTENDED READERS ARE PROGRAMMERS ARCHITECTS AND PROJECT MANAGERS WHO HAVE TO PROCESS LARGE AMOUNTS OF DATA OFFLINE HADOOP IN ACTION WILL LEAD THE READER FROM OBTAINING A COPY OF HADOOP TO SETTING IT UP IN A CLUSTER AND WRITING DATA ANALYTIC PROGRAMS THE BOOK BEGINS BY MAKING THE BASIC IDEA OF HADOOP AND MAPREDUCE EASIER TO GRASP BY APPLYING THE DEFAULT HADOOP INSTALLATION TO A FEW EASY TO FOLLOW TASKS SUCH AS ANALYZING CHANGES IN WORD FREQUENCY ACROSS A BODY OF DOCUMENTS THE BOOK CONTINUES THROUGH THE BASIC CONCEPTS OF MAPREDUCE APPLICATIONS DEVELOPED USING HADOOP INCLUDING A CLOSE LOOK AT FRAMEWORK COMPONENTS USE OF HADOOP FOR A VARIETY OF DATA ANALYSIS TASKS AND NUMEROUS EXAMPLES OF HADOOP IN ACTION HADOOP IN ACTION WILL EXPLAIN HOW TO USE HADOOP AND PRESENT DESIGN PATTERNS AND PRACTICES OF PROGRAMMING MAPREDUCE MAPREDUCE IS A COMPLEX IDEA BOTH CONCEPTUALLY AND IN ITS IMPLEMENTATION AND HADOOP USERS ARE CHALLENGED TO LEARN ALL THE KNOBS AND LEVERS FOR RUNNING HADOOP THIS BOOK TAKES YOU BEYOND THE MECHANICS OF RUNNING

HADOOP TEACHING YOU TO WRITE MEANINGFUL PROGRAMS IN A MAPREDUCE FRAMEWORK THIS BOOK ASSUMES THE READER WILL HAVE A BASIC FAMILIARITY WITH JAVA AS MOST CODE EXAMPLES WILL BE WRITTEN IN JAVA FAMILIARITY WITH BASIC STATISTICAL CONCEPTS E G HISTOGRAM CORRELATION WILL HELP THE READER APPRECIATE THE MORE ADVANCED DATA PROCESSING EXAMPLES PURCHASE OF THE PRINT BOOK COMES WITH AN OFFER OF A FREE PDF EPUB AND KINDLE EBOOK FROM MANNING ALSO AVAILABLE IS ALL CODE FROM THE BOOK

UNLOCK THE POWER OF YOUR DATA WITH HADOOP 2 X ECOSYSTEM AND ITS DATA WAREHOUSING TECHNIQUES ACROSS LARGE DATA SETS ABOUT THIS BOOK CONQUER THE MOUNTAIN OF DATA USING HADOOP 2 X TOOLS THE AUTHORS SUCCEED IN CREATING A CONTEXT FOR HADOOP AND ITS ECOSYSTEM HANDS ON EXAMPLES AND RECIPES GIVING THE BIGGER PICTURE AND HELPING YOU TO MASTER HADOOP 2 X DATA PROCESSING PLATFORMS OVERCOME THE CHALLENGING DATA PROCESSING PROBLEMS USING THIS EXHAUSTIVE COURSE WITH HADOOP 2 X WHO THIS BOOK IS FOR THIS COURSE IS FOR JAVA DEVELOPERS WHO KNOW SCRIPTING WANTING A CAREER SHIFT TO HADOOP BIG DATA SEGMENT OF THE IT INDUSTRY SO IF YOU ARE A NOVICE IN HADOOP OR AN EXPERT THIS BOOK WILL MAKE YOU REACH THE MOST ADVANCED LEVEL IN HADOOP 2 X WHAT YOU WILL LEARN BEST PRACTICES FOR SETUP AND CONFIGURATION OF HADOOP CLUSTERS TAILORING THE SYSTEM TO THE PROBLEM AT HAND INTEGRATION WITH RELATIONAL DATABASES USING HIVE FOR SQL QUERIES AND SQOOP FOR DATA TRANSFER INSTALLING AND MAINTAINING HADOOP 2 X CLUSTER AND ITS ECOSYSTEM ADVANCED DATA ANALYSIS USING THE HIVE PIG AND MAP REDUCE PROGRAMS MACHINE LEARNING PRINCIPLES WITH LIBRARIES SUCH AS MAHOUT AND BATCH AND STREAM DATA PROCESSING USING APACHE SPARK UNDERSTAND THE CHANGES INVOLVED IN THE PROCESS IN THE MOVE FROM HADOOP 1 0 TO HADOOP 2 0 DIVE INTO YARN AND STORM AND USE YARN TO INTEGRATE STORM WITH HADOOP DEPLOY HADOOP ON AMAZON ELASTIC MAPREDUCE AND DISCOVER HDFS REPLACEMENTS AND LEARN ABOUT HDFS FEDERATION IN DETAIL AS MARC ANDREESSEN HAS SAID DATA IS EATING THE WORLD WHICH CAN BE WITNESSED TODAY BEING THE AGE OF BIG DATA BUSINESSES ARE PRODUCING DATA IN HUGE VOLUMES EVERY DAY AND THIS RISE IN TIDE OF DATA NEED TO BE ORGANIZED AND ANALYZED IN A MORE SECURED WAY WITH PROPER AND EFFECTIVE USE

OF HADOOP YOU CAN BUILD NEW IMPROVED MODELS AND BASED ON THAT YOU WILL BE ABLE TO MAKE THE RIGHT DECISIONS THE FIRST MODULE HADOOP BEGINNERS GUIDE WILL WALK YOU THROUGH ON UNDERSTANDING HADOOP WITH VERY DETAILED INSTRUCTIONS AND HOW TO GO ABOUT USING IT COMMANDS ARE EXPLAINED USING SECTIONS CALLED WHAT JUST HAPPENED FOR MORE CLARITY AND UNDERSTANDING THE SECOND MODULE HADOOP REAL WORLD SOLUTIONS COOKBOOK 2ND EDITION IS AN ESSENTIAL TUTORIAL TO EFFECTIVELY IMPLEMENT A BIG DATA WAREHOUSE IN YOUR BUSINESS WHERE YOU GET DETAILED PRACTICES ON THE LATEST TECHNOLOGIES SUCH AS YARN AND SPARK BIG DATA HAS BECOME A KEY BASIS OF COMPETITION AND THE NEW WAVES OF PRODUCTIVITY GROWTH HENCE ONCE YOU GET FAMILIAR WITH THE BASICS AND IMPLEMENT THE END TO END BIG DATA USE CASES YOU WILL START EXPLORING THE THIRD MODULE MASTERING HADOOP SO NOW THE QUESTION IS IF YOU NEED TO BROADEN YOUR HADOOP SKILL SET TO THE NEXT LEVEL AFTER YOU NAIL THE BASICS AND THE ADVANCE CONCEPTS THEN THIS COURSE IS INDISPENSABLE WHEN YOU FINISH THIS COURSE YOU WILL BE ABLE TO TACKLE THE REAL WORLD SCENARIOS AND BECOME A BIG DATA EXPERT USING THE TOOLS AND THE KNOWLEDGE BASED ON THE VARIOUS STEP BY STEP TUTORIALS AND RECIPES STYLE AND APPROACH THIS COURSE HAS COVERED EVERYTHING RIGHT FROM THE BASIC CONCEPTS OF HADOOP TILL YOU MASTER THE ADVANCE MECHANISMS TO BECOME A BIG DATA EXPERT THE GOAL HERE IS TO HELP YOU LEARN THE BASIC ESSENTIALS USING THE STEP BY STEP TUTORIALS AND FROM THERE MOVING TOWARD THE RECIPES WITH VARIOUS REAL WORLD SOLUTIONS FOR YOU IT COVERS ALL THE IMPORTANT ASPECTS OF HADOOP FROM SYSTEM DESIGNING AND CONFIGURING HADOOP MACHINE LEARNING PRINCIPLES WITH VARIOUS LIBRARIES WITH CHAPTERS ILLUSTRATED WITH CODE FRAGMENTS AND SCHEMATIC DIAGRAMS THIS IS A COMPENDIOUS COURSE TO EXPLORE HADOOP FROM THE BASICS TO THE MOST ADVANCED TECHNIQUES AVAILABLE IN HADOOP 2 X

LET HADOOP FOR DUMMIES HELP HARNESS THE POWER OF YOUR DATA AND REIN IN THE INFORMATION OVERLOAD BIG DATA HAS BECOME BIG BUSINESS AND COMPANIES AND ORGANIZATIONS OF ALL SIZES ARE STRUGGLING TO FIND WAYS TO RETRIEVE VALUABLE INFORMATION FROM THEIR MASSIVE DATA SETS WITH BECOMING OVERWHELMED ENTER HADOOP AND THIS EASY TO UNDERSTAND FOR DUMMIES GUIDE HADOOP

FOR DUMMIES HELPS READERS UNDERSTAND THE VALUE OF BIG DATA MAKE A BUSINESS CASE FOR USING HADOOP NAVIGATE THE HADOOP ECOSYSTEM AND BUILD AND MANAGE HADOOP APPLICATIONS AND CLUSTERS EXPLAINS THE ORIGINS OF HADOOP ITS ECONOMIC BENEFITS AND ITS FUNCTIONALITY AND PRACTICAL APPLICATIONS HELPS YOU FIND YOUR WAY AROUND THE HADOOP ECOSYSTEM PROGRAM MAPREDUCE UTILIZE DESIGN PATTERNS AND GET YOUR HADOOP CLUSTER UP AND RUNNING QUICKLY AND EASILY DETAILS HOW TO USE HADOOP APPLICATIONS FOR DATA MINING WEB ANALYTICS AND PERSONALIZATION LARGE SCALE TEXT PROCESSING DATA SCIENCE AND PROBLEM SOLVING SHOWS YOU HOW TO IMPROVE THE VALUE OF YOUR HADOOP CLUSTER MAXIMIZE YOUR INVESTMENT IN HADOOP AND AVOID COMMON PITFALLS WHEN BUILDING YOUR HADOOP CLUSTER FROM PROGRAMMERS CHALLENGED WITH BUILDING AND MAINTAINING AFFORDABLE SCALEABLE DATA SYSTEMS TO ADMINISTRATORS WHO MUST DEAL WITH HUGE VOLUMES OF INFORMATION EFFECTIVELY AND EFFICIENTLY THIS HOW TO HAS SOMETHING TO HELP YOU WITH HADOOP

OFFERS INFORMATION ON HOW TO BUILD AND MAINTAIN RELIABLE SCALABLE DISTRIBUTED SYSTEMS WITH APACHE HADOOP COVERING SUCH TOPICS AS MAPREDUCE HDFS YARN AVRO FOR DATA SERIALIZATION PARQUET FOR NESTED DATA AND DATA INGESTION TOOLS FLUME AND SQOOP

A COMPREHENSIVE GUIDE TO MASTERING THE MOST ADVANCED HADOOP 3 CONCEPTS KEY FEATURESGET TO GRIPS WITH THE NEWLY INTRODUCED FEATURES AND CAPABILITIES OF HADOOP 3CRUNCH AND PROCESS DATA USING MAPREDUCE YARN AND A HOST OF TOOLS WITHIN THE HADOOP ECOSYSTEMSHARPEN YOUR HADOOP SKILLS WITH REAL WORLD CASE STUDIES AND CODEBOOK DESCRIPTION APACHE HADOOP IS ONE OF THE MOST POPULAR BIG DATA SOLUTIONS FOR DISTRIBUTED STORAGE AND FOR PROCESSING LARGE CHUNKS OF DATA WITH HADOOP 3 APACHE PROMISES TO PROVIDE A HIGH PERFORMANCE MORE FAULT TOLERANT AND HIGHLY EFFICIENT BIG DATA PROCESSING PLATFORM WITH A FOCUS ON IMPROVED SCALABILITY AND INCREASED EFFICIENCY WITH THIS GUIDE YOU LL UNDERSTAND ADVANCED CONCEPTS OF THE HADOOP ECOSYSTEM TOOL YOU LL LEARN HOW HADOOP WORKS INTERNALLY STUDY ADVANCED CONCEPTS OF DIFFERENT ECOSYSTEM TOOLS DISCOVER SOLUTIONS TO REAL WORLD USE CASES AND

UNDERSTAND HOW TO SECURE YOUR CLUSTER IT WILL THEN WALK YOU THROUGH HDFS YARN MAPREDUCE AND HADOOP 3 CONCEPTS YOU LL BE ABLE TO ADDRESS COMMON CHALLENGES LIKE USING KAFKA EFFICIENTLY DESIGNING LOW LATENCY RELIABLE MESSAGE DELIVERY KAFKA SYSTEMS AND HANDLING HIGH DATA VOLUMES AS YOU ADVANCE YOU LL DISCOVER HOW TO ADDRESS MAJOR CHALLENGES WHEN BUILDING AN ENTERPRISE GRADE MESSAGING SYSTEM AND HOW TO USE DIFFERENT STREAM PROCESSING SYSTEMS ALONG WITH KAFKA TO FULFIL YOUR ENTERPRISE GOALS BY THE END OF THIS BOOK YOU LL HAVE A COMPLETE UNDERSTANDING OF HOW COMPONENTS IN THE HADOOP ECOSYSTEM ARE EFFECTIVELY INTEGRATED TO IMPLEMENT A FAST AND RELIABLE DATA PIPELINE AND YOU LL BE EQUIPPED TO TACKLE A RANGE OF REAL WORLD PROBLEMS IN DATA PIPELINES WHAT YOU WILL LEARNGAIN AN IN DEPTH UNDERSTANDING OF DISTRIBUTED COMPUTING USING HADOOP 3DEVELOP ENTERPRISE GRADE APPLICATIONS USING APACHE SPARK FLINK AND MOREBUILD SCALABLE AND HIGH PERFORMANCE HADOOP DATA PIPELINES WITH SECURITY MONITORING AND DATA GOVERNANCEEXPLORE BATCH DATA PROCESSING PATTERNS AND HOW TO MODEL DATA IN HADOOPMASTER BEST PRACTICES FOR ENTERPRISES USING OR PLANNING TO USE HADOOP 3 AS A DATA PLATFORMUNDERSTAND SECURITY ASPECTS OF HADOOP INCLUDING AUTHORIZATION AND AUTHENTICATIONWHO THIS BOOK IS FOR IF YOU WANT TO BECOME A BIG DATA PROFESSIONAL BY MASTERING THE ADVANCED CONCEPTS OF HADOOP THIS BOOK IS FOR YOU YOU LL ALSO FIND THIS BOOK USEFUL IF YOU RE A HADOOP PROFESSIONAL LOOKING TO STRENGTHEN YOUR KNOWLEDGE OF THE HADOOP ECOSYSTEM FUNDAMENTAL KNOWLEDGE OF THE JAVA PROGRAMMING LANGUAGE AND BASICS OF HADOOP IS NECESSARY TO GET STARTED WITH THIS BOOK

GET A JUMP START ON USING AZURE HDINSIGHT AND HADOOP ECOSYSTEM COMPONENTS AS MOST HADOOP AND BIG DATA PROJECTS ARE WRITTEN IN EITHER JAVA SCALA OR PYTHON THIS BOOK MINIMIZES THE EFFORT TO LEARN ANOTHER LANGUAGE AND IS WRITTEN FROM THE PERSPECTIVE OF A NET DEVELOPER HADOOP COMPONENTS ARE COVERED INCLUDING HIVE PIG HBASE STORM AND SPARK ON AZURE HDINSIGHT AND CODE SAMPLES ARE WRITTEN IN NET ONLY PROCESSING BIG DATA WITH AZURE HDINSIGHT COVERS THE FUNDAMENTALS OF BIG DATA HOW BUSINESSES ARE USING IT TO THEIR ADVANTAGE AND HOW AZURE HDINSIGHT FITS INTO THE BIG DATA WORLD THIS BOOK INTRODUCES HADOOP AND BIG DATA CONCEPTS

AND THEN DIVES INTO CREATING DIFFERENT SOLUTIONS WITH HDINSIGHT AND THE HADOOP ECOSYSTEM IT COVERS CONCEPTS WITH REAL WORLD SCENARIOS AND CODE EXAMPLES MAKING SURE YOU GET HANDS ON EXPERIENCE THE BEST WAY TO UTILIZE THIS BOOK IS TO PRACTICE WHILE READING AFTER READING THIS BOOK YOU WILL BE FAMILIAR WITH AZURE HDINSIGHT AND HOW IT CAN BE UTILIZED TO BUILD BIG DATA SOLUTIONS INCLUDING BATCH PROCESSING STREAM ANALYTICS INTERACTIVE PROCESSING AND STORING AND RETRIEVING DATA IN AN EFFICIENT MANNER WHAT YOU LL LEARN UNDERSTAND THE FUNDAMENTALS OF HDINSIGHT AND HADOOP WORK WITH HDINSIGHT CLUSTER QUERY WITH APACHE HIVE AND APACHE PIG STORE AND RETRIEVE DATA WITH APACHE HBASE STREAM DATA PROCESSING USING APACHE STORM WORK WITH APACHE SPARK WHO THIS BOOK IS FOR SOFTWARE DEVELOPERS TECHNICAL ARCHITECTS DATA SCIENTISTS ANALYTS AND HADOOP ADMINISTRATORS WHO WANT TO DEVELOP ON MICROSOFT S MANAGED HADOOP OFFERING HDINSIGHT

A FAST PACED GUIDE THAT WILL HELP YOU LEARN ABOUT APACHE HADOOP 3 AND ITS ECOSYSTEM KEY FEATURESSET UP CONFIGURE AND GET STARTED WITH HADOOP TO GET USEFUL INSIGHTS FROM LARGE DATA SETSWORK WITH THE DIFFERENT COMPONENTS OF HADOOP SUCH AS MAPREDUCE HDFS AND YARN LEARN ABOUT THE NEW FEATURES INTRODUCED IN HADOOP 3BOOK DESCRIPTION APACHE HADOOP IS A WIDELY USED DISTRIBUTED DATA PLATFORM IT ENABLES LARGE DATASETS TO BE EFFICIENTLY PROCESSED INSTEAD OF USING ONE LARGE COMPUTER TO STORE AND PROCESS THE DATA THIS BOOK WILL GET YOU STARTED WITH THE HADOOP ECOSYSTEM AND INTRODUCE YOU TO THE MAIN TECHNICAL TOPICS INCLUDING MAPREDUCE YARN AND HDFS THE BOOK BEGINS WITH AN OVERVIEW OF BIG DATA AND APACHE HADOOP THEN YOU WILL SET UP A PSEUDO HADOOP DEVELOPMENT ENVIRONMENT AND A MULTI NODE ENTERPRISE HADOOP CLUSTER YOU WILL SEE HOW THE PARALLEL PROGRAMMING PARADIGM SUCH AS MAPREDUCE CAN SOLVE MANY COMPLEX DATA PROCESSING PROBLEMS THE BOOK ALSO COVERS THE IMPORTANT ASPECTS OF THE BIG DATA SOFTWARE DEVELOPMENT LIFECYCLE INCLUDING QUALITY ASSURANCE AND CONTROL PERFORMANCE ADMINISTRATION AND MONITORING YOU WILL THEN LEARN ABOUT THE HADOOP ECOSYSTEM AND TOOLS SUCH AS KAFKA SQOOP FLUME PIG HIVE AND HBASE FINALLY YOU WILL LOOK AT ADVANCED TOPICS INCLUDING REAL TIME STREAMING USING APACHE STORM AND DATA

ANALYTICS USING APACHE SPARK BY THE END OF THE BOOK YOU WILL BE WELL VERSED WITH DIFFERENT CONFIGURATIONS OF THE HADOOP 3 CLUSTER WHAT YOU WILL LEARNSTORE AND ANALYZE DATA AT SCALE USING HDFS MAPREDUCE AND YARNINSTALL AND CONFIGURE HADOOP 3 IN DIFFERENT MODESUSE YARN EFFECTIVELY TO RUN DIFFERENT APPLICATIONS ON HADOOP BASED PLATFORMUNDERSTAND AND MONITOR HOW HADOOP CLUSTER IS MANAGEDCONSUME STREAMING DATA USING STORM AND THEN ANALYZE IT USING SPARKEXPLORE APACHE HADOOP ECOSYSTEM COMPONENTS SUCH AS FLUME SQOOP HBASE HIVE AND KAFKAWHO THIS BOOK IS FOR ASPIRING BIG DATA PROFESSIONALS WHO WANT TO LEARN THE ESSENTIALS OF HADOOP 3 WILL FIND THIS BOOK TO BE USEFUL EXISTING HADOOP USERS WHO WANT TO GET UP TO SPEED WITH THE NEW FEATURES INTRODUCED IN HADOOP 3 WILL ALSO BENEFIT FROM THIS BOOK HAVING KNOWLEDGE OF JAVA PROGRAMMING WILL BE AN ADDED ADVANTAGE

THIS BOOK PRESENTS RECENT DEVELOPMENTS ON THE THEORETICAL ALGORITHMIC AND APPLICATION ASPECTS OF BIG DATA IN COMPLEX AND SOCIAL NETWORKS THE BOOK CONSISTS OF FOUR PARTS COVERING A WIDE RANGE OF TOPICS THE FIRST PART OF THE BOOK FOCUSES ON DATA STORAGE AND DATA PROCESSING IT EXPLORES HOW THE EFFICIENT STORAGE OF DATA CAN FUNDAMENTALLY SUPPORT INTENSIVE DATA ACCESS AND QUERIES WHICH ENABLES SOPHISTICATED ANALYSIS IT ALSO LOOKS AT HOW DATA PROCESSING AND VISUALIZATION HELP TO COMMUNICATE INFORMATION CLEARLY AND EFFICIENTLY THE SECOND PART OF THE BOOK IS DEVOTED TO THE EXTRACTION OF ESSENTIAL INFORMATION AND THE PREDICTION OF WEB CONTENT THE BOOK SHOWS HOW BIG DATA ANALYSIS CAN BE USED TO UNDERSTAND THE INTERESTS LOCATION AND SEARCH HISTORY OF USERS AND PROVIDE MORE ACCURATE PREDICTIONS OF USER BEHAVIOR THE LATTER TWO PARTS OF THE BOOK COVER THE PROTECTION OF PRIVACY AND SECURITY AND EMERGENT APPLICATIONS OF BIG DATA AND SOCIAL NETWORKS IT ANALYZES HOW TO MODEL RUMOR DIFFUSION IDENTIFY MISINFORMATION FROM MASSIVE DATA AND DESIGN INTERVENTION STRATEGIES APPLICATIONS OF BIG DATA AND SOCIAL NETWORKS IN MULTILAYER NETWORKS AND MULTIPARTY SYSTEMS ARE ALSO COVERED IN DEPTH

THIS BOOK PROVIDES A COMPREHENSIVE OVERVIEW AND INTRODUCTION TO BIG DATA INFRASTRUCTURE

TECHNOLOGIES EXISTING CLOUD BASED PLATFORMS AND TOOLS FOR BIG DATA PROCESSING AND DATA ANALYTICS COMBINING BOTH A CONCEPTUAL APPROACH IN ARCHITECTURE DESIGN AND A PRACTICAL APPROACH IN TECHNOLOGY SELECTION AND PROJECT IMPLEMENTATION READERS WILL LEARN THE CORE FUNCTIONALITY OF MAJOR BIG DATA INFRASTRUCTURE COMPONENTS AND HOW THEY INTEGRATE TO FORM A COHERENT SOLUTION WITH BUSINESS BENEFITS SPECIFIC ATTENTION WILL BE GIVEN TO UNDERSTANDING AND USING THE MAJOR BIG DATA PLATFORM APACHE HADOOP ECOSYSTEM ITS MAIN FUNCTIONAL COMPONENTS MAPREDUCE HBASE HIVE PIG SPARK AND STREAMING ANALYTICS THE BOOK INCLUDES TOPICS RELATED TO ENTERPRISE AND RESEARCH DATA MANAGEMENT AND GOVERNANCE AND EXPLAINS MODERN APPROACHES TO CLOUD AND BIG DATA SECURITY AND COMPLIANCE THE BOOK COVERS TWO KNOWLEDGE AREAS DEFINED IN THE EDISON DATA SCIENCE FRAMEWORK EDSF DATA SCIENCE ENGINEERING AND DATA MANAGEMENT AND GOVERNANCE AND CAN BE USED AS A TEXTBOOK FOR UNIVERSITY COURSES OR PROVIDE A BASIS FOR PRACTITIONERS FOR FURTHER SELF STUDY AND PRACTICAL USE OF BIG DATA TECHNOLOGIES AND COMPETENT EVALUATION AND IMPLEMENTATION OF PRACTICAL PROJECTS IN THEIR ORGANIZATIONS

BEGINNING APACHE CASSANDRA DEVELOPMENT INTRODUCES YOU TO ONE OF THE MOST ROBUST AND BEST PERFORMING NOSQL DATABASE PLATFORMS ON THE PLANET APACHE CASSANDRA IS A DOCUMENT DATABASE FOLLOWING THE JSON DOCUMENT MODEL IT IS SPECIFICALLY DESIGNED TO MANAGE LARGE AMOUNTS OF DATA ACROSS MANY COMMODITY SERVERS WITHOUT THERE BEING ANY SINGLE POINT OF FAILURE THIS DESIGN APPROACH MAKES APACHE CASSANDRA A ROBUST AND EASY TO IMPLEMENT PLATFORM WHEN HIGH AVAILABILITY IS NEEDED APACHE CASSANDRA CAN BE USED BY DEVELOPERS IN JAVA PHP PYTHON AND JAVASCRIPT THE PRIMARY AND MOST COMMONLY USED LANGUAGES IN BEGINNING APACHE CASSANDRA DEVELOPMENT AUTHOR AND CASSANDRA EXPERT VIVEK MISHRA TAKES YOU THROUGH USING APACHE CASSANDRA FROM EACH OF THESE PRIMARY LANGUAGES MISHRA ALSO COVERS THE CASSANDRA QUERY LANGUAGE CQL THE APACHE CASSANDRA ANALOG TO SQL YOU LL LEARN TO DEVELOP APPLICATIONS SOURCING DATA FROM CASSANDRA QUERY THAT DATA AND DELIVER IT AT SPEED TO YOUR APPLICATION S USERS CASSANDRA IS ONE OF THE LEADING NOSQL DATABASES MEANING YOU

GET UNPARALLELED THROUGHPUT AND PERFORMANCE WITHOUT THE SORT OF PROCESSING OVERHEAD THAT COMES WITH TRADITIONAL PROPRIETARY DATABASES BEGINNING APACHE CASSANDRA DEVELOPMENT WILL THEREFORE HELP YOU CREATE APPLICATIONS THAT GENERATE SEARCH RESULTS QUICKLY STAND UP TO HIGH LEVELS OF DEMAND SCALE AS YOUR USER BASE GROWS ENSURE OPERATIONAL SIMPLICITY AND NOT LEAST PROVIDE DELIGHTFUL USER EXPERIENCES

THIS BOOK IS ABOUT USING OPEN SOURCE TOOLS IN DATA ANALYTICS THE BOOK COVERS SEVERAL SUBJECTS INCLUDING DESCRIPTIVE AND PREDICTIVE MODELING GRADIENT BOOSTING CLUSTER MODELING LOGISTIC REGRESSION AND ARTIFICIAL NEURAL NETWORKS AMONG OTHER TOPICS

MICROSOFT AZURE HDINSIGHT IS MICROSOFT S 100 PERCENT COMPLIANT DISTRIBUTION OF APACHE HADOOP ON MICROSOFT AZURE THIS MEANS THAT STANDARD HADOOP CONCEPTS AND TECHNOLOGIES APPLY SO LEARNING THE HADOOP STACK HELPS YOU LEARN THE HDINSIGHT SERVICE AT THE TIME OF THIS WRITING HDINSIGHT VERSION 3 0 USES HADOOP VERSION 2 2 AND HORTONWORKS DATA PLATFORM 2 0 IN INTRODUCING MICROSOFT AZURE HDINSIGHT WE COVER WHAT BIG DATA REALLY MEANS HOW YOU CAN USE IT TO YOUR ADVANTAGE IN YOUR COMPANY OR ORGANIZATION AND ONE OF THE SERVICES YOU CAN USE TO DO THAT QUICKLY SPECIFICALLY MICROSOFT S HDINSIGHT SERVICE WE START WITH AN OVERVIEW OF BIG DATA AND HADOOP BUT WE DON T EMPHASIZE ONLY CONCEPTS IN THIS BOOK WE WANT YOU TO JUMP IN AND GET YOUR HANDS DIRTY WORKING WITH HDINSIGHT IN A PRACTICAL WAY TO HELP YOU LEARN AND EVEN IMPLEMENT HDINSIGHT RIGHT AWAY WE FOCUS ON A SPECIFIC USE CASE THAT APPLIES TO ALMOST ANY ORGANIZATION AND DEMONSTRATE A PROCESS THAT YOU CAN FOLLOW ALONG WITH WE ALSO HELP YOU LEARN MORE IN THE LAST CHAPTER WE LOOK AHEAD AT THE FUTURE OF HDINSIGHT AND GIVE YOU RECOMMENDATIONS FOR SELF LEARNING SO THAT YOU CAN DIVE DEEPER INTO IMPORTANT CONCEPTS AND ROUND OUT YOUR EDUCATION ON WORKING WITH BIG DATA

THIS BOOK INTRODUCES YOU TO THE BIG DATA PROCESSING TECHNIQUES ADDRESSING BUT NOT LIMITED TO VARIOUS BI BUSINESS INTELLIGENCE REQUIREMENTS SUCH AS REPORTING BATCH ANALYTICS ONLINE ANALYTICAL PROCESSING OLAP DATA MINING AND WAREHOUSING AND PREDICTIVE ANALYTICS THE BOOK

HAS BEEN WRITTEN ON IBMS PLATFORM OF HADOOP FRAMEWORK IBM INFOSPHERE BIGINSIGHT HAS THE HIGHEST AMOUNT OF TUTORIAL MATTER AVAILABLE FREE OF COST ON INTERNET WHICH MAKES IT EASY TO ACQUIRE PROFICIENCY IN THIS TECHNIQUE THIS THEREFORE BECOMES HIGHLY VUNERABLE COACHING MATERIALS IN EASY TO LEARN STEPS THE BOOK OPTIMALLY PROVIDES THE COURSEWARE AS PER MCA AND M TECH LEVEL SYLLABI OF MOST OF THE UNIVERSITIES ALL COMPONENTS OF BIG DATA PLATFORM LIKE JAQL HIVE PIG SQOOP FLUME HADOOP STREAMING OOZIE HBASE HDFS FLUMENG WHIRR CLOUDERA FUSE ZOOKEEPER AND MAHOUT MACHINE LEARNING FOR HADOOP HAS BEEN DISCUSSED IN SUFFICIENT DETAIL WITH HANDS ON EXERCISES ON EACH

IF YOU ARE A SYSTEM OR APPLICATION DEVELOPER INTERESTED IN LEARNING HOW TO SOLVE PRACTICAL PROBLEMS USING THE HADOOP FRAMEWORK THEN THIS BOOK IS IDEAL FOR YOU YOU ARE EXPECTED TO BE FAMILIAR WITH THE UNIX LINUX COMMAND LINE INTERFACE AND HAVE SOME EXPERIENCE WITH THE JAVA PROGRAMMING LANGUAGE FAMILIARITY WITH HADOOP WOULD BE A PLUS

THIS ILLUMINATING TEXT REFERENCE SURVEYS THE STATE OF THE ART IN DATA SCIENCE AND PROVIDES PRACTICAL GUIDANCE ON BIG DATA ANALYTICS EXPERT PERSPECTIVES ARE PROVIDED BY AUTHORITATIVE RESEARCHERS AND PRACTITIONERS FROM AROUND THE WORLD DISCUSSING RESEARCH DEVELOPMENTS AND EMERGING TRENDS PRESENTING CASE STUDIES ON HELPFUL FRAMEWORKS AND INNOVATIVE METHODOLOGIES AND SUGGESTING BEST PRACTICES FOR EFFICIENT AND EFFECTIVE DATA ANALYTICS FEATURES REVIEWS A FRAMEWORK FOR FAST DATA APPLICATIONS A TECHNIQUE FOR COMPLEX EVENT PROCESSING AND AGGLOMERATIVE APPROACHES FOR THE PARTITIONING OF NETWORKS INTRODUCES A UNIFIED APPROACH TO DATA MODELING AND MANAGEMENT AND A DISTRIBUTED COMPUTING PERSPECTIVE ON INTERFACING PHYSICAL AND CYBER WORLDS PRESENTS TECHNIQUES FOR MACHINE LEARNING FOR BIG DATA AND IDENTIFYING DUPLICATE RECORDS IN DATA REPOSITORIES EXAMINES ENABLING TECHNOLOGIES AND TOOLS FOR DATA MINING PROPOSES FRAMEWORKS FOR DATA EXTRACTION AND ADAPTIVE DECISION MAKING AND SOCIAL MEDIA ANALYSIS

LEVERAGE PHOENIX AS AN ANSI SQL ENGINE BUILT ON TOP OF THE HIGHLY DISTRIBUTED AND SCALABLE

NOSQL FRAMEWORK HBASE LEARN THE BASICS AND BEST PRACTICES THAT ARE BEING ADOPTED IN PHOENIX TO ENABLE A HIGH WRITE AND READ THROUGHPUT IN A BIG DATA SPACE THIS BOOK INCLUDES REAL WORLD CASES SUCH AS INTERNET OF THINGS DEVICES THAT SEND CONTINUOUS STREAMS TO PHOENIX AND THE BOOK EXPLAINS HOW KEY FEATURES SUCH AS JOINS INDEXES TRANSACTIONS AND FUNCTIONS HELP YOU UNDERSTAND THE SIMPLE FLEXIBLE AND POWERFUL API THAT PHOENIX PROVIDES EXAMPLES ARE PROVIDED USING REAL TIME DATA AND DATA DRIVEN BUSINESSES THAT SHOW YOU HOW TO COLLECT ANALYZE AND ACT IN SECONDS PRO APACHE PHOENIX COVERS THE NUANCES OF SETTING UP A DISTRIBUTED HBASE CLUSTER WITH PHOENIX LIBRARIES RUNNING PERFORMANCE BENCHMARKS CONFIGURING PARAMETERS FOR PRODUCTION SCENARIOS AND VIEWING THE RESULTS THE BOOK ALSO SHOWS HOW PHOENIX PLAYS WELL WITH OTHER KEY FRAMEWORKS IN THE HADOOPECOSYSTEM SUCH AS APACHE SPARK PIG FLUME AND SQOOP YOU WILL LEARN HOW TO HANDLE A PETABYTE DATA STORE BY APPLYING FAMILIAR SQL TECHNIQUES STORE ANALYZE AND MANIPULATE DATA IN A NOSQL HADOOP ECHO SYSTEM WITH HBASE APPLY BEST PRACTICES WHILE WORKING WITH A SCALABLE DATA STORE ON HADOOP AND HBASE INTEGRATE POPULAR FRAMEWORKS APACHE SPARK PIG FLUME TO SIMPLIFY BIG DATA ANALYSIS DEMONSTRATE REAL TIME USE CASES AND BIG DATA MODELING TECHNIQUES WHO THIS BOOK IS FOR DATA ENGINEERS BIG DATA ADMINISTRATORS AND ARCHITECTS

FUNDAMENTALS OF BIG DATA ANALYTICS WRITTEN BY DR THOMMAN VIJAYA SARADHIDR SYED AZAHAD MR SREEJITH R DR SREEKUMAR NARAYANAN

MANY CORPORATIONS ARE FINDING THAT THE SIZE OF THEIR DATA SETS ARE OUTGROWING THE CAPABILITY OF THEIR SYSTEMS TO STORE AND PROCESS THEM THE DATA IS BECOMING TOO BIG TO MANAGE AND USE WITH TRADITIONAL TOOLS THE SOLUTION IMPLEMENTING A BIG DATA SYSTEM AS BIG DATA MADE EASY A WORKING GUIDE TO THE COMPLETE HADOOP TOOLSET SHOWS APACHE HADOOP OFFERS A SCALABLE FAULT TOLERANT SYSTEM FOR STORING AND PROCESSING DATA IN PARALLEL IT HAS A VERY RICH TOOLSET THAT ALLOWS FOR STORAGE HADOOP CONFIGURATION YARN AND ZOOKEEPER COLLECTION NUTCH AND SOLR PROCESSING STORM PIG AND MAP REDUCE SCHEDULING OOZIE MOVING

SQOOP AND AVRO MONITORING CHUKWA AMBARI AND HUE TESTING BIG TOP AND ANALYSIS HIVE THE

PROBLEM IS THAT THE INTERNET OFFERS IT PROS WADING INTO BIG DATA MANY VERSIONS OF THE TRUTH

AND SOME OUTRIGHT FALSEHOODS BORN OF IGNORANCE WHAT IS NEEDED IS A BOOK JUST LIKE THIS ONE

A WIDE RANGING BUT EASILY UNDERSTOOD SET OF INSTRUCTIONS TO EXPLAIN WHERE TO GET HADOOP

TOOLS WHAT THEY CAN DO HOW TO INSTALL THEM HOW TO CONFIGURE THEM HOW TO INTEGRATE

THEM AND HOW TO USE THEM SUCCESSFULLY AND YOU NEED AN EXPERT WHO HAS WORKED IN THIS

AREA FOR A DECADE SOMEONE JUST LIKE AUTHOR AND BIG DATA EXPERT MIKE FRAMPTON BIG DATA MADE

EASY APPROACHES THE PROBLEM OF MANAGING MASSIVE DATA SETS FROM A SYSTEMS PERSPECTIVE AND

IT EXPLAINS THE ROLES FOR EACH PROJECT LIKE ARCHITECT AND TESTER FOR EXAMPLE AND SHOWS HOW

THE HADOOP TOOLSET CAN BE USED AT EACH SYSTEM STAGE IT EXPLAINS IN AN EASILY UNDERSTOOD

MANNER AND THROUGH NUMEROUS EXAMPLES HOW TO USE EACH TOOL THE BOOK ALSO EXPLAINS THE

SLIDING SCALE OF TOOLS AVAILABLE DEPENDING UPON DATA SIZE AND WHEN AND HOW TO USE THEM BIG

DATA MADE EASY SHOWS DEVELOPERS AND ARCHITECTS AS WELL AS TESTERS AND PROJECT MANAGERS

HOW TO STORE BIG DATA CONFIGURE BIG DATA PROCESS BIG DATA SCHEDULE PROCESSES MOVE DATA

AMONG SQL AND NOSQL SYSTEMS MONITOR DATA PERFORM BIG DATA ANALYTICS REPORT ON BIG DATA

PROCESSES AND PROJECTS TEST BIG DATA SYSTEMS BIG DATA MADE EASY ALSO EXPLAINS THE BEST

PART WHICH IS THAT THIS TOOLSET IS FREE ANYONE CAN DOWNLOAD IT AND WITH THE HELP OF THIS

BOOK START TO USE IT WITHIN A DAY WITH THE SKILLS THIS BOOK WILL TEACH YOU UNDER YOUR

BELT YOU WILL ADD VALUE TO YOUR COMPANY OR CLIENT IMMEDIATELY NOT TO MENTION YOUR CAREER

DO YOU WANT TO BROADEN YOUR HADOOP SKILL SET AND TAKE YOUR KNOWLEDGE TO THE NEXT LEVEL

DO YOU WISH TO ENHANCE YOUR KNOWLEDGE OF HADOOP TO SOLVE CHALLENGING DATA PROCESSING

PROBLEMS ARE YOUR HADOOP JOBS PIG SCRIPTS OR HIVE QUERIES NOT WORKING AS FAST AS YOU

INTEND ARE YOU LOOKING TO UNDERSTAND THE BENEFITS OF UPGRADING HADOOP IF THE ANSWER IS YES

TO ANY OF THESE THIS BOOK IS FOR YOU IT ASSUMES NOVICE LEVEL FAMILIARITY WITH HADOOP

BIG DATA IS A STATE OF THE ART TECHNOLOGY THAT REVOLUTIONIZES SYSTEM DESIGN AND DECISION

MAKING ON THE OTHER HAND HADOOP IS A DISTRIBUTED FRAMEWORK THAT ALLOWS THE EFFECTIVE MANAGEMENT OF BIG DATA THIS BOOK COMBINES THEORETICAL AND PRACTICAL FACETS OF BIG DATA TECHNOLOGY THE FIRST FEW CHAPTERS PROVIDE A THEORETICAL INTRODUCTION TO BIG DATA AND HADOOP WITH INDIVIDUAL CHAPTERS COVERING DIFFERENT COMPONENTS OF THE HADOOP ECOSYSTEM THE REST OF THE BOOK PROVIDES LAB TUTORIALS GIVING BASIC WORKING KNOWLEDGE OF THE DIFFERENT COMPONENTS AND HOW THEY CAN SYNERGISTICALLY BE USED TO DEVELOP A BIG DATA APPLICATION KEY FEATURES OF THE BOOK INCLUDE IT PROVIDES A BACKGROUND OF THE BIG DATA PROBLEM AND INTRODUCES HADOOP IN LIGHT OF HOW IT SOLVES IT IT COVERS ALL THE PROCESSES OF THE BIG DATA LIFECYCLE AND THE DIFFERENT COMPONENTS OF HADOOP THAT SERVE THESE PROCESSES IT OFFERS DEDICATED LAB TUTORIALS FOR INSTALLATION AND DEMONSTRATION OF THE DIFFERENT COMPONENTS OF THE HADOOP ECOSYSTEM

EDUGORILLA PUBLICATION IS A TRUSTED NAME IN THE EDUCATION SECTOR COMMITTED TO EMPOWERING LEARNERS WITH HIGH QUALITY STUDY MATERIALS AND RESOURCES SPECIALIZING IN COMPETITIVE EXAMS AND ACADEMIC SUPPORT EDUGORILLA PROVIDES COMPREHENSIVE AND WELL STRUCTURED CONTENT TAILORED TO MEET THE NEEDS OF STUDENTS ACROSS VARIOUS STREAMS AND LEVELS

PERFORM FORENSIC INVESTIGATIONS ON HADOOP CLUSTERS WITH CUTTING EDGE TOOLS AND TECHNIQUES ABOUT THIS BOOK IDENTIFY COLLECT AND ANALYZE HADOOP EVIDENCE FORENSICALLY LEARN ABOUT HADOOP S INTERNALS AND BIG DATA FILE STORAGE CONCEPTS A STEP BY STEP GUIDE TO HELP YOU PERFORM FORENSIC ANALYSIS USING FREELY AVAILABLE TOOLS WHO THIS BOOK IS FOR THIS BOOK IS MEANT FOR STATISTICIANS AND FORENSIC ANALYSTS WITH BASIC KNOWLEDGE OF DIGITAL FORENSICS THEY DO NOT NEED TO KNOW BIG DATA FORENSICS IF YOU ARE AN IT PROFESSIONAL LAW ENFORCEMENT PROFESSIONAL LEGAL PROFESSIONAL OR A STUDENT INTERESTED IN BIG DATA AND FORENSICS THIS BOOK IS THE PERFECT HANDS ON GUIDE FOR LEARNING HOW TO CONDUCT HADOOP FORENSIC INVESTIGATIONS EACH TOPIC AND STEP IN THE FORENSIC PROCESS IS DESCRIBED IN ACCESSIBLE LANGUAGE WHAT YOU WILL LEARN UNDERSTAND HADOOP INTERNALS AND FILE STORAGE COLLECT AND ANALYZE HADOOP

FORENSIC EVIDENCE PERFORM COMPLEX FORENSIC ANALYSIS FOR FRAUD AND OTHER INVESTIGATIONS USE STATE OF THE ART FORENSIC TOOLS CONDUCT INTERVIEWS TO IDENTIFY HADOOP EVIDENCE CREATE COMPELLING PRESENTATIONS OF YOUR FORENSIC FINDINGS UNDERSTAND HOW BIG DATA CLUSTERS OPERATE APPLY ADVANCED FORENSIC TECHNIQUES IN AN INVESTIGATION INCLUDING FILE CARVING STATISTICAL ANALYSIS AND MORE IN DETAIL BIG DATA FORENSICS IS AN IMPORTANT TYPE OF DIGITAL INVESTIGATION THAT INVOLVES THE IDENTIFICATION COLLECTION AND ANALYSIS OF LARGE SCALE BIG DATA SYSTEMS HADOOP IS ONE OF THE MOST POPULAR BIG DATA SOLUTIONS AND FORENSICALLY INVESTIGATING A HADOOP CLUSTER REQUIRES SPECIALIZED TOOLS AND TECHNIQUES WITH THE EXPLOSION OF BIG DATA FORENSIC INVESTIGATORS NEED TO BE PREPARED TO ANALYZE THE PETABYTES OF DATA STORED IN HADOOP CLUSTERS UNDERSTANDING HADOOP S OPERATIONAL STRUCTURE AND PERFORMING FORENSIC ANALYSIS WITH COURT ACCEPTED TOOLS AND BEST PRACTICES WILL HELP YOU CONDUCT A SUCCESSFUL INVESTIGATION DISCOVER HOW TO PERFORM A COMPLETE FORENSIC INVESTIGATION OF LARGE SCALE HADOOP CLUSTERS USING THE SAME TOOLS AND TECHNIQUES EMPLOYED BY FORENSIC EXPERTS THIS BOOK BEGINS BY TAKING YOU THROUGH THE PROCESS OF FORENSIC INVESTIGATION AND THE PITFALLS TO AVOID IT WILL WALK YOU THROUGH HADOOP S INTERNALS AND ARCHITECTURE AND YOU WILL DISCOVER WHAT TYPES OF INFORMATION HADOOP STORES AND HOW TO ACCESS THAT DATA YOU WILL LEARN TO IDENTIFY BIG DATA EVIDENCE USING TECHNIQUES TO SURVEY A LIVE SYSTEM AND INTERVIEW WITNESSES AFTER SETTING UP YOUR OWN HADOOP SYSTEM YOU WILL COLLECT EVIDENCE USING TECHNIQUES SUCH AS FORENSIC IMAGING AND APPLICATION BASED EXTRACTIONS YOU WILL ANALYZE HADOOP EVIDENCE USING ADVANCED TOOLS AND TECHNIQUES TO UNCOVER EVENTS AND STATISTICAL INFORMATION FINALLY DATA VISUALIZATION AND EVIDENCE PRESENTATION TECHNIQUES ARE COVERED TO HELP YOU PROPERLY COMMUNICATE YOUR FINDINGS TO ANY AUDIENCE STYLE AND APPROACH THIS BOOK IS A COMPLETE GUIDE THAT FOLLOWS EVERY STEP OF THE FORENSIC ANALYSIS PROCESS IN DETAIL YOU WILL BE GUIDED THROUGH EACH KEY TOPIC AND STEP NECESSARY TO PERFORM AN INVESTIGATION HANDS ON EXERCISES ARE PRESENTED THROUGHOUT THE BOOK AND TECHNICAL REFERENCE GUIDES AND SAMPLE DOCUMENTS ARE INCLUDED FOR REAL WORLD USE

DR P PUSHPA LECTURER SCHOOL OF SOFTWARE ENGINEERING EAST CHINA UNIVERSITY OF TECHNOLOGY NANCHANG JIANGXI CHINA DR V THAMILARASI ASSISTANT PROFESSOR DEPARTMENT OF COMPUTER SCIENCE SRI SARADA COLLEGE FOR WOMEN AUTONOMOUS SALEM TAMIL NADU INDIA DR S LAKSHMI PRABHA ASSOCIATE PROFESSOR DEPARTMENT OF COMPUTER SCIENCE SEETHALAKSHMI RAMASWAMI COLLEGE TIRUCHIRAPPALLI TAMIL NADU INDIA MRS SUDHA NAGARAJAN ASSISTANT PROFESSOR DEPARTMENT OF COMPUTER SCIENCE EXCEL COLLEGE FOR COMMERCE AND SCIENCE KOMARAPALAYAM NAMAKKAL TAMIL NADU INDIA

THIS BOOK IS A COLLECTION OF HIGH QUALITY PEER REVIEWED RESEARCH PAPERS PRESENTED AT INTERNATIONAL CONFERENCE ON RECENT TRENDS IN COMPUTING ICRTC 2024 ORGANIZED BY SRM INSTITUTE OF SCIENCE AND TECHNOLOGY GHAZIABAD DELHI INDIA DURING JULY 5 6 2024 THE BOOK IS DIVIDED INTO TWO VOLUMES AND DISCUSSES A WIDE VARIETY OF INDUSTRIAL ENGINEERING AND SCIENTIFIC APPLICATIONS OF THE EMERGING TECHNIQUES THE BOOK PRESENTS ORIGINAL WORKS FROM RESEARCHERS FROM ACADEMIC AND INDUSTRY IN THE FIELD OF NETWORKING SECURITY BIG DATA AND THE INTERNET OF THINGS

MINING BIG DATA REQUIRES A DEEP INVESTMENT IN PEOPLE AND TIME HOW CAN YOU BE SURE YOU RE BUILDING THE RIGHT MODELS WITH THIS HANDS ON BOOK YOU LL LEARN A FLEXIBLE TOOLSET AND METHODOLOGY FOR BUILDING EFFECTIVE ANALYTICS APPLICATIONS WITH HADOOP USING LIGHTWEIGHT TOOLS SUCH AS PYTHON APACHE PIG AND THE D3 JS LIBRARY YOUR TEAM WILL CREATE AN AGILE ENVIRONMENT FOR EXPLORING DATA STARTING WITH AN EXAMPLE APPLICATION TO MINE YOUR OWN EMAIL INBOXES YOU LL LEARN AN ITERATIVE APPROACH THAT ENABLES YOU TO QUICKLY CHANGE THE KIND OF ANALYSIS YOU RE DOING DEPENDING ON WHAT THE DATA IS TELLING YOU ALL EXAMPLE CODE IN THIS BOOK IS AVAILABLE AS WORKING HEROKU APPS CREATE ANALYTICS APPLICATIONS BY USING THE AGILE BIG DATA DEVELOPMENT METHODOLOGY BUILD VALUE FROM YOUR DATA IN A SERIES OF AGILE SPRINTS USING THE DATA VALUE STACK GAIN INSIGHT BY USING SEVERAL DATA STRUCTURES TO EXTRACT MULTIPLE FEATURES FROM A SINGLE DATASET VISUALIZE DATA WITH CHARTS AND EXPOSE DIFFERENT

ASPECTS THROUGH INTERACTIVE REPORTS USE HISTORICAL DATA TO PREDICT THE FUTURE AND TRANSLATE PREDICTIONS INTO ACTION GET FEEDBACK FROM USERS AFTER EACH SPRINT TO KEEP YOUR PROJECT ON TRACK

THIS BOOK PROVIDES A COMPREHENSIVE SURVEY OF TECHNIQUES TECHNOLOGIES AND APPLICATIONS OF BIG DATA AND ITS ANALYSIS THE BIG DATA PHENOMENON IS INCREASINGLY IMPACTING ALL SECTORS OF BUSINESS AND INDUSTRY PRODUCING AN EMERGING NEW INFORMATION ECOSYSTEM ON THE APPLICATIONS FRONT THE BOOK OFFERS DETAILED DESCRIPTIONS OF VARIOUS APPLICATION AREAS FOR BIG DATA ANALYTICS IN THE IMPORTANT DOMAINS OF SOCIAL SEMANTIC MINING BANKING AND FINANCIAL SERVICES CAPITAL MARKETS INSURANCE ADVERTISEMENT RECOMMENDATION SYSTEMS BIO INFORMATICS THE IOT AND FOG COMPUTING BEFORE DELVING INTO ISSUES OF SECURITY AND PRIVACY WITH REGARD TO MACHINE LEARNING TECHNIQUES THE BOOK PRESENTS ALL THE STANDARD ALGORITHMS FOR LEARNING INCLUDING SUPERVISED SEMI SUPERVISED AND UNSUPERVISED TECHNIQUES SUCH AS CLUSTERING AND REINFORCEMENT LEARNING TECHNIQUES TO PERFORM COLLECTIVE DEEP LEARNING MULTI LAYERED AND NONLINEAR LEARNING FOR BIG DATA ARE ALSO COVERED IN TURN THE BOOK HIGHLIGHTS REAL LIFE CASE STUDIES ON SUCCESSFUL IMPLEMENTATIONS OF BIG DATA ANALYTICS AT LARGE IT COMPANIES SUCH AS GOOGLE FACEBOOK LINKEDIN AND MICROSOFT MULTI SECTORIAL CASE STUDIES ON DOMAIN BASED COMPANIES SUCH AS DEUTSCHE BANK THE POWER PROVIDER OPOWER DELTA AIRLINES AND A CHINESE CITY TRANSPORTATION APPLICATION REPRESENT A VALUABLE ADDITION GIVEN ITS COMPREHENSIVE COVERAGE OF BIG DATA ANALYTICS THE BOOK OFFERS A UNIQUE RESOURCE FOR UNDERGRADUATE AND GRADUATE STUDENTS RESEARCHERS EDUCATORS AND IT PROFESSIONALS ALIKE

READY TO USE STATISTICAL AND MACHINE LEARNING TECHNIQUES ACROSS LARGE DATA SETS THIS PRACTICAL GUIDE SHOWS YOU WHY THE HADOOP ECOSYSTEM IS PERFECT FOR THE JOB INSTEAD OF DEPLOYMENT OPERATIONS OR SOFTWARE DEVELOPMENT USUALLY ASSOCIATED WITH DISTRIBUTED COMPUTING YOU LL FOCUS ON PARTICULAR ANALYSES YOU CAN BUILD THE DATA WAREHOUSING TECHNIQUES THAT HADOOP PROVIDES AND HIGHER ORDER DATA WORKFLOWS THIS FRAMEWORK CAN

PRODUCE DATA SCIENTISTS AND ANALYSTS WILL LEARN HOW TO PERFORM A WIDE RANGE OF TECHNIQUES FROM WRITING MAPREDUCE AND SPARK APPLICATIONS WITH PYTHON TO USING ADVANCED MODELING AND DATA MANAGEMENT WITH SPARK MLLIB HIVE AND HBASE YOU LL ALSO LEARN ABOUT THE ANALYTICAL PROCESSES AND DATA SYSTEMS AVAILABLE TO BUILD AND EMPOWER DATA PRODUCTS THAT CAN HANDLE AND ACTUALLY REQUIRE HUGE AMOUNTS OF DATA UNDERSTAND CORE CONCEPTS BEHIND HADOOP AND CLUSTER COMPUTING USE DESIGN PATTERNS AND PARALLEL ANALYTICAL ALGORITHMS TO CREATE DISTRIBUTED DATA ANALYSIS JOBS LEARN ABOUT DATA MANAGEMENT MINING AND WAREHOUSING IN A DISTRIBUTED CONTEXT USING APACHE HIVE AND HBASE USE SQOOP AND APACHE FLUME TO INGEST DATA FROM RELATIONAL DATABASES PROGRAM COMPLEX HADOOP AND SPARK APPLICATIONS WITH APACHE PIG AND SPARK DATAFRAMES PERFORM MACHINE LEARNING TECHNIQUES SUCH AS CLASSIFICATION CLUSTERING AND COLLABORATIVE FILTERING WITH SPARK S MLLIB

EMBARK ON AN AWE INSPIRING JOURNEY INTO THE REALM OF BIG DATA AN EXPANSIVE LANDSCAPE WHERE INFORMATION EVOLVES INTO INSIGHTS AND INNOVATION TRANSFORMS INDUSTRIES DECODING DATA UNIVERSE MASTERING BIG DATA ANALYTICS IS A COMPREHENSIVE GUIDE THAT UNVEILS THE ESSENTIAL PRINCIPLES AND PRACTICES THAT EMPOWER DATA ENTHUSIASTS TO HARNESS THE POWER OF BIG DATA FOR INFORMED DECISION MAKING AND TRANSFORMATIVE SOLUTIONS UNLEASHING DATA POTENTIAL IMMERSE YOURSELF IN THE ART OF BIG DATA ANALYTICS AS THIS BOOK EXPLORES THE CORE CONCEPTS AND STRATEGIES THAT UNDERPIN SUCCESSFUL DATA DRIVEN ENDEAVORS FROM DATA COLLECTION TO PREDICTIVE MODELING FROM MACHINE LEARNING TO DATA VISUALIZATION THIS GUIDE EQUIPS YOU WITH THE TOOLS TO UNLOCK PATTERNS DRIVE INNOVATION AND FUEL GROWTH THROUGH DATA DRIVEN INSIGHTS KEY THEMES EXPLORED DATA COLLECTION AND STORAGE DISCOVER TECHNIQUES TO EFFICIENTLY COLLECT ORGANIZE AND STORE VAST AMOUNTS OF DATA FROM DIVERSE SOURCES DATA ANALYSIS AND INTERPRETATION EMBRACE METHODS FOR EXTRACTING MEANINGFUL INSIGHTS TRENDS AND CORRELATIONS FROM COMPLEX DATA SETS MACHINE LEARNING AND AI LEARN STRATEGIES TO APPLY MACHINE LEARNING ALGORITHMS FOR PREDICTIVE MODELING AND DECISION SUPPORT DATA VISUALIZATION AND COMMUNICATION EXPLORE THE ART OF TRANSFORMING DATA INTO VISUAL STORIES THAT COMMUNICATE INSIGHTS

EFFECTIVELY ETHICAL DATA USE AND PRIVACY UNDERSTAND THE ETHICAL CONSIDERATIONS AND LEGAL IMPLICATIONS OF WORKING WITH BIG DATA TARGET AUDIENCE DECODING DATA UNIVERSE CATERS TO DATA ANALYSTS SCIENTISTS BUSINESS PROFESSIONALS RESEARCHERS AND INDIVIDUALS PASSIONATE ABOUT TURNING DATA INTO ACTIONABLE INSIGHTS WHETHER YOU RE NAVIGATING THE WORLD OF DATA DRIVEN DECISION MAKING EXPLORING MACHINE LEARNING APPLICATIONS OR SEEKING TO MASTER THE ART OF DATA VISUALIZATION THIS BOOK EMPOWERS YOU TO UNLOCK THE POTENTIAL OF BIG DATA UNIQUE SELLING POINTS REAL LIFE DATA SUCCESS STORIES ENGAGE WITH PRACTICAL EXAMPLES OF ORGANIZATIONS THAT HARNESSED BIG DATA ANALYTICS TO DRIVE INNOVATION AND SUCCESS CUTTING EDGE TECHNOLOGIES EMPHASIZE THE ROLE OF ADVANCED TOOLS CLOUD COMPUTING AND AI POWERED ANALYTICS IN HANDLING BIG DATA DECISION MAKING FRAMEWORKS LEARN HOW TO USE DATA INSIGHTS TO MAKE STRATEGIC DECISIONS AND OPTIMIZE BUSINESS PROCESSES ETHICAL DATA PRACTICES EXPLORE THE RESPONSIBLE AND ETHICAL USE OF DATA WHILE RESPECTING INDIVIDUAL PRIVACY DECODE THE DATA UNIVERSE BIG DATA TRANSCENDS ORDINARY DATA LITERATURE IT S A TRANSFORMATIVE GUIDE THAT CELEBRATES THE ART OF TRANSFORMING RAW DATA INTO ACTIONABLE INSIGHTS AND GAME CHANGING SOLUTIONS WHETHER YOU SEEK TO OPTIMIZE OPERATIONS INNOVATE PRODUCTS OR ENHANCE CUSTOMER EXPERIENCES THIS BOOK IS YOUR COMPASS TO MASTERING THE PRINCIPLES THAT DRIVE SUCCESSFUL BIG DATA ANALYTICS SECURE YOUR COPY OF BIG DATA AND EMBARK ON A JOURNEY OF DECODING THE MYSTERIES OF BIG DATA AND UNLEASHING ITS TRANSFORMATIVE POTENTIAL

MAKING BIG DATA WORK REAL WORLD USE CASES AND EXAMPLES PRACTICAL CODE DETAILED SOLUTIONS LARGE SCALE DATA ANALYSIS IS NOW VITALLY IMPORTANT TO VIRTUALLY EVERY BUSINESS MOBILE AND SOCIAL TECHNOLOGIES ARE GENERATING MASSIVE DATASETS DISTRIBUTED CLOUD COMPUTING OFFERS THE RESOURCES TO STORE AND ANALYZE THEM AND PROFESSIONALS HAVE RADICALLY NEW TECHNOLOGIES AT THEIR COMMAND INCLUDING NOSQL DATABASES UNTIL NOW HOWEVER MOST BOOKS ON BIG DATA HAVE BEEN LITTLE MORE THAN BUSINESS POLEMICS OR PRODUCT CATALOGS DATA JUST RIGHT IS DIFFERENT IT S A COMPLETELY PRACTICAL AND INDISPENSABLE GUIDE FOR EVERY BIG DATA DECISION MAKER IMPLEMENTER AND STRATEGIST MICHAEL MANOOCHEHRI A FORMER GOOGLE ENGINEER AND DATA HACKER WRITES FOR

PROFESSIONALS WHO NEED PRACTICAL SOLUTIONS THAT CAN BE IMPLEMENTED WITH LIMITED RESOURCES AND TIME DRAWING ON HIS EXTENSIVE EXPERIENCE HE HELPS YOU FOCUS ON BUILDING APPLICATIONS RATHER THAN INFRASTRUCTURE BECAUSE THAT S WHERE YOU CAN DERIVE THE MOST VALUE MANOOCHEHRI SHOWS HOW TO ADDRESS EACH OF TODAY S KEY BIG DATA USE CASES IN A COST EFFECTIVE WAY BY COMBINING TECHNOLOGIES IN HYBRID SOLUTIONS YOU LL FIND EXPERT APPROACHES TO MANAGING MASSIVE DATASETS VISUALIZING DATA BUILDING DATA PIPELINES AND DASHBOARDS CHOOSING TOOLS FOR STATISTICAL ANALYSIS AND MORE THROUGHOUT THE AUTHOR DEMONSTRATES TECHNIQUES USING MANY OF TODAY S LEADING DATA ANALYSIS TOOLS INCLUDING HADOOP HIVE SHARK R APACHE PIG MAHOUT AND GOOGLE BIGQUERY COVERAGE INCLUDES MASTERING THE FOUR GUIDING PRINCIPLES OF BIG DATA SUCCESS AND AVOIDING COMMON PITFALLS EMPHASIZING COLLABORATION AND AVOIDING PROBLEMS WITH SILOED DATA HOSTING AND SHARING MULTI TERABYTE DATASETS EFFICIENTLY AND ECONOMICALLY BUILDING FOR INFINITY TO SUPPORT RAPID GROWTH DEVELOPING A NOSQL APP WITH REDIS TO COLLECT CROWD SOURCED DATA RUNNING DISTRIBUTED QUERIES OVER MASSIVE DATASETS WITH HADOOP HIVE AND SHARK BUILDING A DATA DASHBOARD WITH GOOGLE BIGQUERY EXPLORING LARGE DATASETS WITH ADVANCED VISUALIZATION IMPLEMENTING EFFICIENT PIPELINES FOR TRANSFORMING IMMENSE AMOUNTS OF DATA AUTOMATING COMPLEX PROCESSING WITH APACHE PIG AND THE CASCADING JAVA LIBRARY APPLYING MACHINE LEARNING TO CLASSIFY RECOMMEND AND PREDICT INCOMING INFORMATION USING R TO PERFORM STATISTICAL ANALYSIS ON MASSIVE DATASETS BUILDING HIGHLY EFFICIENT ANALYTICS WORKFLOWS WITH PYTHON AND PANDAS ESTABLISHING SENSIBLE PURCHASING STRATEGIES WHEN TO BUILD BUY OR OUTSOURCE PREVIEWING EMERGING TRENDS AND CONVERGENCES IN SCALABLE DATA TECHNOLOGIES AND THE EVOLVING ROLE OF THE DATA SCIENTIST

THIS EDITED BOOK FIRST CONSOLIDATES THE RESULTS OF THE EU FUNDED EDISON PROJECT EDUCATION FOR DATA INTENSIVE SCIENCE TO OPEN NEW SCIENCE FRONTIERS WHICH DEVELOPED TRAINING MATERIAL AND INFORMATION TO ASSIST EDUCATORS TRAINERS EMPLOYERS AND RESEARCH INFRASTRUCTURE MANAGERS IN IDENTIFYING RECRUITING AND INSPIRING THE DATA SCIENCE PROFESSIONALS OF THE FUTURE IT THEN DEEPENS THE PRESENTATION OF THE INFORMATION AND KNOWLEDGE GAINED TO ALLOW FOR EASIER ASSIMILATION

BY THE READER THE CONTRIBUTED CHAPTERS ARE PRESENTED IN SEQUENCE EACH CHAPTER PICKING UP FROM THE END POINT OF THE PREVIOUS ONE AFTER THE INITIAL BOOK AND PROJECT OVERVIEW THE CHAPTERS PRESENT THE RELEVANT DATA SCIENCE COMPETENCIES AND BODY OF KNOWLEDGE THE MODEL CURRICULUM REQUIRED TO TEACH THE REQUIRED FOUNDATIONS PROFILES OF PROFESSIONALS IN THIS DOMAIN AND USE CASES AND APPLICATIONS THE TEXT IS SUPPORTED WITH APPENDICES ON RELATED PROCESS MODELS THE BOOK CAN BE USED TO DEVELOP NEW COURSES IN DATA SCIENCE EVALUATE EXISTING MODULES AND COURSES DRAFT JOB DESCRIPTIONS AND PLAN AND DESIGN EFFICIENT DATA INTENSIVE RESEARCH TEAMS ACROSS SCIENTIFIC DISCIPLINES

THIS TIMELY TEXT REFERENCE EXPLORES THE BUSINESS AND TECHNICAL ISSUES INVOLVED IN THE MANAGEMENT OF INFORMATION SYSTEMS IN THE ERA OF BIG DATA AND BEYOND TOPICS AND FEATURES PRESENTS REVIEW QUESTIONS AND DISCUSSION TOPICS IN EACH CHAPTER FOR CLASSROOM GROUP WORK AND INDIVIDUAL RESEARCH ASSIGNMENTS DISCUSSES THE POTENTIAL USE OF A VARIETY OF BIG DATA TOOLS AND TECHNIQUES IN A BUSINESS ENVIRONMENT EXPLAINING HOW THESE CAN FIT WITHIN AN INFORMATION SYSTEMS STRATEGY REVIEWS EXISTING THEORIES AND PRACTICES IN INFORMATION SYSTEMS AND EXPLORES THEIR CONTINUED RELEVANCE IN THE ERA OF BIG DATA DESCRIBES THE KEY TECHNOLOGIES INVOLVED IN INFORMATION SYSTEMS IN GENERAL AND BIG DATA IN PARTICULAR PLACING THESE TECHNOLOGIES IN AN HISTORIC CONTEXT SUGGESTS AREAS FOR FURTHER RESEARCH IN THIS FAST MOVING DOMAIN EQUIPS READERS WITH AN UNDERSTANDING OF THE IMPORTANT ASPECTS OF A DATA SCIENTIST S JOB PROVIDES HANDS ON EXPERIENCE TO FURTHER ASSIST IN THE UNDERSTANDING OF THE TECHNOLOGIES INVOLVED

UNVEILING INSIGHTS UNLEASHING POTENTIAL NAVIGATING THE DEPTHS OF BIG DATA AND ANALYTICS FOR A DATA DRIVEN TOMORROW KEY FEATURES LEARN ABOUT BIG DATA AND HOW IT HELPS BUSINESSES INNOVATE GROW AND MAKE DECISIONS EFFICIENTLY LEARN ABOUT DATA COLLECTION STORAGE PROCESSING AND ANALYSIS ALONG WITH TOOLS AND METHODS DISCOVER REAL LIFE EXAMPLES OF BIG DATA APPLICATIONS ACROSS INDUSTRIES ADDRESSING CHALLENGES LIKE PRIVACY AND SECURITY DESCRIPTION BIG

DATA AND ANALYTICS IS AN INDISPENSABLE GUIDE THAT NAVIGATES THE COMPLEX DATA MANAGEMENT AND ANALYSIS THIS COMPREHENSIVE BOOK COVERS THE CORE PRINCIPLES PROCESSES AND TOOLS ENSURING READERS GRASP THE ESSENTIALS AND PROGRESS TO ADVANCED APPLICATIONS IT WILL HELP YOU UNDERSTAND THE DIFFERENT ANALYSIS TYPES LIKE DESCRIPTIVE PREDICTIVE AND PRESCRIPTIVE LEARN ABOUT NOSQL DATABASES AND THEIR BENEFITS OVER SQL THE BOOK CENTERS ON HADOOP EXPLAINING ITS FEATURES VERSIONS AND MAIN COMPONENTS LIKE HDFS STORAGE AND MAPREDUCE PROCESSING EXPLORE MAPREDUCE AND YARN FOR EFFICIENT DATA PROCESSING GAIN INSIGHTS INTO MONGODB AND HIVE POPULAR TOOLS IN THE BIG DATA LANDSCAPE WHAT YOU WILL LEARN GRASP BIG DATA FUNDAMENTALS AND APPLICATIONS MASTER DESCRIPTIVE PREDICTIVE AND PRESCRIPTIVE ANALYTICS UNDERSTAND HDFS MAPREDUCE YARN AND THEIR FUNCTIONALITIES EXPLORE DATA STORAGE RETRIEVAL AND MANIPULATION IN A NOSQL DATABASE GAIN PRACTICAL INSIGHTS AND APPLY THEM TO REAL WORLD SCENARIOS WHO THIS BOOK IS FOR THIS BOOK CATERS TO A DIVERSE AUDIENCE INCLUDING DATA PROFESSIONALS ANALYSTS IT MANAGERS AND BUSINESS INTELLIGENCE PRACTITIONERS TABLE OF CONTENTS 1 INTRODUCTION TO BIG DATA 2 BIG DATA ANALYTICS 3 INTRODUCTION OF NOSQL 4 INTRODUCTION TO HADOOP 5 MAP REDUCE 6 INTRODUCTION TO MONGODB

DR K VARADA RAJKUMAR ASSOCIATE PROFESSOR DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING AIML MLR INSTITUTE OF TECHNOLOGY HYDERABAD TELANGANA INDIA VIKRAM PASUPULETI SOFTWARE DEVELOPER MS IN COMPUTER TECHNOLOGY SCHOOL OF TECHNOLOGY EASTERN ILLINOIS UNIVERSITY CHARLESTON ILLINOIS USA BHARADWAJ THURAKA SOFTWARE DEVELOPER MASTER OF SCIENCE INFORMATION SYSTEMS NORTHWEST MISSOURI STATE UNIVERSITY MARYVILLE MISSOURI USA DR SAITEJA MALISETTY PH D IN COMPUTING INFORMATION SCIENCE COLLEGE OF INFORMATION SCIENCE AND TECHNOLOGY UNIVERSITY OF NEBRASKA OMAHA NEBRASKA USA CHANDRA SHIKHI KODETE SOFTWARE ENGINEER MS IN COMPUTER TECHNOLOGY SCHOOL OF TECHNOLOGY EASTERN ILLINOIS UNIVERSITY CHARLESTON ILLINOIS USA

OVER 90 HANDS ON RECIPES TO HELP YOU LEARN AND MASTER THE INTRICACIES OF APACHE HADOOP 2 X YARN HIVE PIG OOZIE FLUME SQOOP APACHE SPARK AND MAHOUT ABOUT THIS BOOK IMPLEMENT

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# Mastering the Roman Numeral System: Beyond the Basics of i, ii, iii, iv, v

We often encounter Roman numerals in seemingly mundane places: chapter headings in books, watch faces, architectural inscriptions, and even movie sequels. Yet, beyond their simple representation of numbers 1 through 5 (i, ii, iii, iv, v), the Roman numeral system possesses a rich history and a surprisingly complex structure. This article delves into the intricacies of this ancient numbering system, providing a comprehensive understanding of its logic, application, and underlying principles, going beyond the simple recognition of i, ii, iii, iv, and v. Understanding this system isn't just about historical appreciation; it allows for a deeper engagement with various fields where it continues to be used.

# I. The Fundamentals: Understanding the Basic Symbols

The foundation of the Roman numeral system rests on seven basic symbols: I = 1: A single vertical line. V = 5: Possibly derived from an outstretched hand with five fingers. X = 10: Thought to be two crossed V's, representing twice the value of V. L = 50: Its origin is less certain, but possibly related to a half-century. C = 100: Derived from the Latin word centum meaning "hundred". D = 500: Likely a half of the symbol M. M = 1000: Derived from the Latin word mille meaning "thousand". These symbols are the building blocks upon which all other Roman numerals are constructed. Understanding their values is the crucial first

STEP TO MASTERING THE SYSTEM.

## II. The Additive and Subtractive Principles: Building Larger Numbers

The beauty (and sometimes the confusion) of Roman numerals lies in their dual principles: additive and subtractive. Additive Principle: When a smaller numeral precedes a larger one, we add their values. For example, VI (5 + 1 = 6), XI (10 + 1 = 11), and LX (50 + 10 = 60) illustrate this. Essentially, you're summing the values sequentially. Subtractive Principle: This is where things get interesting. When a smaller numeral precedes a larger one of a specific value, we subtract the smaller value from the larger. This applies only to I, X, and C placed before V, X, L, C, D, or M. For example, IV (5 - 1 = 4), IX (10 - 1 = 9), XL (50 - 10 = 40), XC (100 - 10 = 90), CD (500 - 100 = 400), and CM (1000 - 100 = 900). This subtractive principle allows for a more concise representation of numbers. Let's illustrate this with a real-world example. Consider a book with chapters numbered: I, II, III, IV, V, VI, VII, VIII, IX, X, XI, XII, XIII, XIV, XV. We seamlessly move from additive (VI, VII, VIII, XI, XII, XIII, XIV, XV) to subtractive (IV, IX) principles within this simple sequence.

## III. Advanced Applications and Limitations

While the basic symbols and principles cover most common uses, understanding some limitations and advanced applications is crucial for a complete comprehension. Repetition: A symbol can be repeated up to three times consecutively before the next larger value is used. For example, III (3), XX (20), CCC (300). Repeating a symbol more than three times is

not permitted; it would necessitate using a larger value. Number Representation: Roman numerals are best suited for representing smaller numbers. While larger numbers can be represented, they become increasingly cumbersome. For example, representing 1999 as MCMXCIX is less efficient than the equivalent Arabic numeral. Zero and Decimal Fractions: The Roman numeral system lacks a symbol for zero and doesn't readily accommodate decimal fractions. This limitation is a significant departure from the decimal system we commonly use.

# IV. Historical Context and Continued Relevance

The Roman numeral system has a rich history, originating in ancient Rome and evolving over centuries. While largely supplanted by the Hindu-Arabic numeral system (our current 0-9 system) for everyday arithmetic, it retains its significance in specific contexts: Clock Faces: Many analog clocks utilize Roman numerals, particularly for the hours. This lends a classic and often formal aesthetic. Copyright Dates: Copyright notices often use Roman numerals, providing a stylistic touch and hinting at a more traditional feel. Outlines and Chapter Numbering: Textbooks and other formal documents often employ Roman numerals for outlining or numbering chapters. This provides a hierarchical structure that is visually distinct. Architectural Inscriptions: Roman numerals frequently appear on buildings and monuments, adding to their historical and aesthetic appeal.

# V. Conclusion and Frequently Asked Questions

The Roman numeral system, although seemingly simple at first glance, possesses a nuanced structure. Understanding its additive and subtractive principles, its limitations, and its continued presence in modern society provides a richer appreciation for its history and

practical applications. While the Hindu-Arabic system excels in computational efficiency, Roman numerals retain their unique aesthetic and functional value in certain domains. Frequently Asked Questions: 1. Can you use more than three consecutive symbols? No, only up to three repetitions of a single symbol are permitted before moving to the next higher value (e.g., III is acceptable, but IIII is not). 2. Why is there no zero in the Roman numeral system? The concept of zero as a placeholder and a number in its own right didn't exist in the Roman mathematical framework. The system focuses on representation rather than arithmetic operations. 3. Are there any instances where Roman numerals are preferred over Arabic numerals? Yes, Roman numerals are often preferred for stylistic reasons, particularly in formal documents, clock faces, and architectural inscriptions. Their visual distinctness contributes to this preference. 4. How do you convert large Arabic numbers to Roman numerals? Converting large numbers requires a methodical approach, breaking down the number into its component values (thousands, hundreds, tens, and ones) and then applying the appropriate Roman numeral symbols based on the additive and subtractive principles. 5. What are the limitations of the Roman numeral system for calculations? The Roman numeral system is not efficient for complex arithmetic calculations. The lack of a zero and the cumbersome nature of representing larger numbers make addition, subtraction, multiplication, and division far less straightforward than with the Arabic system.

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