

PDF FREE MANUAL SOLUTION MACHINE LEARNING (DOWNLOAD ONLY)

THE MACHINE LEARNING SOLUTIONS ARCHITECT HANDBOOK MACHINE LEARNING SOLUTIONS OPTIMIZING AI AND MACHINE LEARNING SOLUTIONS MACHINE LEARNING AND BIG DATA MACHINE LEARNING ALGORITHMS AND APPLICATIONS OPTIMIZATION IN MACHINE LEARNING AND APPLICATIONS MACHINE LEARNING DESIGN PATTERNS MATLAB MACHINE LEARNING RECIPES PRACTICAL MACHINE LEARNING MASTERING MACHINE LEARNING ALGORITHMS MACHINE LEARNING WITH PYTHON COOKBOOK INTRODUCING MACHINE LEARNING COGNITIVE COMPUTING RECIPES MACHINE LEARNING ALGORITHMS FOR INDUSTRIAL APPLICATIONS ARTIFICIAL INTELLIGENCE BY EXAMPLE HANDS-ON MACHINE LEARNING WITH PYTHON MACHINE LEARNING SOLUTIONS MACHINE LEARNING ENGINEERING IN ACTION IBM WATSON SOLUTIONS FOR MACHINE LEARNING EFFICIENT REGULARIZED SOLUTION PATH ALGORITHMS WITH APPLICATIONS IN MACHINE LEARNING AND DATA MINING MACHINE LEARNING WITH DYNAMICS 365 AND POWER PLATFORM HANDS-ON MACHINE LEARNING WITH AZURE ARTIFICIAL INTELLIGENCE BY EXAMPLE ARTIFICIAL INTELLIGENCE FOR ADVANCED PROBLEM SOLVING TECHNIQUES MACHINE LEARNING WITH MICROSOFT TECHNOLOGIES MACHINE LEARNING QUICK REFERENCE MACHINE LEARNING IN MICROSERVICES PRACTICAL ARTIFICIAL INTELLIGENCE HEALTHCARE SOLUTIONS USING MACHINE LEARNING AND INFORMATICS PYTHON: REAL WORLD MACHINE LEARNING ORACLE BUSINESS INTELLIGENCE WITH MACHINE LEARNING THE MACHINE LEARNING SOLUTIONS ARCHITECT HANDBOOK FEDERATED LEARNING ANALYSIS AND DESIGN OF MACHINE LEARNING TECHNIQUES MACHINE LEARNING TECHNIQUES FOR SMART CITY APPLICATIONS: TRENDS AND SOLUTIONS HANDS-ON UNSUPERVISED LEARNING USING PYTHON MACHINE LEARNING CONTROL BY SYMBOLIC REGRESSION PROGRAMMING WITH TENSORFLOW AUTOMATED MACHINE LEARNING IN ACTION COMBATING WOMEN'S HEALTH ISSUES WITH MACHINE LEARNING

THE MACHINE LEARNING SOLUTIONS ARCHITECT HANDBOOK

2022-01-21

BUILD HIGHLY SECURE AND SCALABLE MACHINE LEARNING PLATFORMS TO SUPPORT THE FAST PACED ADOPTION OF MACHINE LEARNING SOLUTIONS KEY FEATURES EXPLORE DIFFERENT ML TOOLS AND FRAMEWORKS TO SOLVE LARGE SCALE MACHINE LEARNING CHALLENGES IN THE CLOUD BUILD AN EFFICIENT DATA SCIENCE ENVIRONMENT FOR DATA EXPLORATION MODEL BUILDING AND MODEL TRAINING LEARN HOW TO IMPLEMENT BIAS DETECTION PRIVACY AND EXPLAINABILITY IN ML MODEL DEVELOPMENT BOOK DESCRIPTION WHEN EQUIPPED WITH A HIGHLY SCALABLE MACHINE LEARNING ML PLATFORM ORGANIZATIONS CAN QUICKLY SCALE THE DELIVERY OF ML PRODUCTS FOR FASTER BUSINESS VALUE REALIZATION THERE IS A HUGE DEMAND FOR SKILLED ML SOLUTIONS ARCHITECTS IN DIFFERENT INDUSTRIES AND THIS HANDBOOK WILL HELP YOU MASTER THE DESIGN PATTERNS ARCHITECTURAL CONSIDERATIONS AND THE LATEST TECHNOLOGY INSIGHTS YOU LL NEED TO BECOME ONE YOU LL START BY UNDERSTANDING ML FUNDAMENTALS AND HOW ML CAN BE APPLIED TO SOLVE REAL WORLD BUSINESS PROBLEMS ONCE YOU VE EXPLORED A FEW LEADING PROBLEM SOLVING ML ALGORITHMS THIS BOOK WILL HELP YOU TACKLE DATA MANAGEMENT AND GET THE MOST OUT OF ML LIBRARIES SUCH AS TENSORFLOW AND PYTORCH USING OPEN SOURCE TECHNOLOGY SUCH AS KUBERNETES KUBEFLOW TO BUILD A DATA SCIENCE ENVIRONMENT AND ML PIPELINES WILL BE COVERED NEXT BEFORE MOVING ON TO BUILDING AN ENTERPRISE ML ARCHITECTURE USING AMAZON SERVICES AWS YOU LL ALSO LEARN ABOUT SECURITY AND GOVERNANCE CONSIDERATIONS ADVANCED ML ENGINEERING TECHNIQUES AND HOW TO APPLY BIAS DETECTION EXPLAINABILITY AND PRIVACY IN ML MODEL DEVELOPMENT BY THE END OF THIS BOOK YOU LL BE ABLE TO DESIGN AND BUILD AN ML PLATFORM TO SUPPORT COMMON USE CASES AND ARCHITECTURE PATTERNS LIKE A TRUE PROFESSIONAL WHAT YOU WILL LEARN APPLY ML METHODOLOGIES TO SOLVE BUSINESS PROBLEMS DESIGN A PRACTICAL ENTERPRISE ML PLATFORM ARCHITECTURE IMPLEMENT MLOPS FOR ML WORKFLOW AUTOMATION BUILD AN END TO END DATA MANAGEMENT ARCHITECTURE USING AWS TRAIN LARGE SCALE ML MODELS AND OPTIMIZE MODEL INFERENCE LATENCY CREATE A BUSINESS APPLICATION USING AN AI SERVICE AND A CUSTOM ML MODEL USE AWS SERVICES TO DETECT DATA AND MODEL BIAS AND EXPLAIN MODELS WHO THIS BOOK IS FOR THIS BOOK IS FOR DATA SCIENTISTS DATA ENGINEERS CLOUD ARCHITECTS AND MACHINE LEARNING ENTHUSIASTS WHO WANT TO BECOME MACHINE LEARNING SOLUTIONS ARCHITECTS YOU LL NEED BASIC KNOWLEDGE OF THE PYTHON PROGRAMMING LANGUAGE AWS LINEAR ALGEBRA PROBABILITY AND NETWORKING CONCEPTS BEFORE YOU GET STARTED WITH THIS HANDBOOK

MACHINE LEARNING SOLUTIONS

2018

PRACTICAL HANDS ON SOLUTIONS IN PYTHON TO OVERCOME ANY PROBLEM IN MACHINE LEARNING ABOUT THIS BOOK MASTER THE ADVANCED CONCEPTS METHODOLOGIES AND USE CASES OF MACHINE LEARNING BUILD ML APPLICATIONS FOR ANALYTICS NLP AND COMPUTER VISION DOMAINS SOLVE THE MOST COMMON PROBLEMS IN BUILDING MACHINE LEARNING MODELS WHO THIS BOOK IS FOR THIS BOOK IS FOR THE INTERMEDIATE USERS SUCH AS MACHINE LEARNING ENGINEERS DATA ENGINEERS DATA SCIENTISTS AND MORE WHO WANT TO SOLVE SIMPLE TO COMPLEX MACHINE LEARNING PROBLEMS IN THEIR DAY TO DAY WORK AND BUILD POWERFUL AND EFFICIENT MACHINE LEARNING MODELS A BASIC UNDERSTANDING OF THE MACHINE LEARNING CONCEPTS AND SOME EXPERIENCE WITH PYTHON PROGRAMMING IS ALL YOU NEED TO GET STARTED WITH THIS BOOK WHAT YOU WILL LEARN SELECT THE RIGHT ALGORITHM TO DERIVE THE BEST SOLUTION IN ML DOMAINS PERFORM PREDICTIVE ANALYSIS EFFICIENTLY USING ML ALGORITHMS PREDICT STOCK PRICES USING THE STOCK INDEX VALUE PERFORM CUSTOMER ANALYTICS FOR AN E COMMERCE PLATFORM BUILD RECOMMENDATION ENGINES FOR VARIOUS DOMAINS BUILD NLP APPLICATIONS FOR THE HEALTH DOMAIN BUILD LANGUAGE GENERATION APPLICATIONS USING DIFFERENT NLP TECHNIQUES BUILD COMPUTER VISION APPLICATIONS SUCH AS FACIAL EMOTION RECOGNITION IN DETAIL MACHINE LEARNING ML HELPS YOU FIND HIDDEN INSIGHTS FROM YOUR DATA WITHOUT THE NEED FOR EXPLICIT PROGRAMMING THIS BOOK IS YOUR KEY TO SOLVING ANY KIND OF ML PROBLEM YOU MIGHT COME ACROSS IN YOUR JOB YOU LL ENCOUNTER A SET OF SIMPLE TO COMPLEX PROBLEMS WHILE BUILDING ML MODELS AND YOU LL NOT ONLY RESOLVE THESE PROBLEMS BUT YOU LL ALSO LEARN HOW TO BUILD PROJECTS BASED ON EACH PROBLEM WITH A PRACTICAL APPROACH AND EASY TO FOLLOW EXAMPLES THE BOOK INCLUDES A WIDE RANGE OF APPLICATIONS FROM ANALYTICS AND NLP TO COMPUTER VISION DOMAINS SOME OF THE APPLICATIONS YOU WILL BE WORKING ON INCLUDE STOCK PRICE PREDICTION A RECOMMENDATION ENGINE BUILDING A CHAT BOT A FACIAL EXPRESSION RECOGNITION SYSTEM AND MANY MORE THE PROBLEM EXAMPLES WE COVER INCLUDE IDENTIFYING THE RIGHT ALGORITHM FOR YOUR DATASET AND USE CASES CREATING AND LABELING DATASETS GETTING ENOUGH CLEAN DATA TO CARRY OUT PROCESSING IDENTIFYING OUTLIERS OVERFITTING DATASETS HYPERPARAMETER TUNING AND MORE HERE YOU LL ALSO LEARN TO MAKE MORE TIMELY AND ACCURATE PREDICTIONS IN ADDITION YOU LL DEAL WITH MORE ADVANCED USE CASES SUCH AS BUILDING A GAMING BOT BUILDING AN EXTRACTIVE SUMMARIZATION TOOL FOR MEDICAL DOCUMENTS AND YOU LL ALSO TACKLE THE PROBLEMS

OPTIMIZING AI AND MACHINE LEARNING SOLUTIONS

2024-03-04

BUILD HIGH IMPACT ML AI SOLUTIONS BY OPTIMIZING EACH STEP KEY FEATURES BUILD AND FINE TUNE MODELS FOR MAXIMUM PERFORMANCE PRACTICAL TIPS TO MAKE YOUR OWN STATE OF THE ART AI ML MODELS ML AI PROBLEM SOLVING TIPS WITH MULTIPLE CASE STUDIES TO TACKLE REAL WORLD CHALLENGES DESCRIPTION THIS BOOK APPROACHES DATA SCIENCE SOLUTION BUILDING USING A PRINCIPLED FRAMEWORK AND CASE STUDIES WITH EXTENSIVE HANDS ON GUIDANCE IT WILL TEACH THE READERS OPTIMIZATION AT EACH STEP WHETHER IT IS PROBLEM FORMULATION OR HYPERPARAMETER TUNING FOR DEEP LEARNING MODELS THIS BOOK KEEPS THE READER PRAGMATIC AND GUIDES THEM TOWARD PRACTICAL SOLUTIONS BY DISCUSSING THE ESSENTIAL ML CONCEPTS INCLUDING PROBLEM FORMULATION DATA PREPARATION AND EVALUATION TECHNIQUES FURTHER THE READER WILL BE ABLE TO LEARN HOW TO APPLY MODEL OPTIMIZATION WITH ADVANCED ALGORITHMS HYPERPARAMETER TUNING AND STRATEGIES AGAINST OVERFITTING THEY WILL ALSO BENEFIT FROM DEEP LEARNING BY OPTIMIZING MODELS FOR IMAGE PROCESSING NATURAL LANGUAGE PROCESSING AND SPECIALIZED APPLICATIONS THE READER CAN PUT THEORY INTO PRACTICE WITH HANDS ON CASE STUDIES AND CODE EXAMPLES REINFORCING THEIR UNDERSTANDING WITH THIS BOOK THE READER WILL BE ABLE TO CREATE HIGH IMPACT HIGH VALUE ML AI SOLUTIONS BY OPTIMIZING EACH STEP OF THE SOLUTION BUILDING PROCESS WHICH IS THE ULTIMATE GOAL OF EVERY DATA SCIENCE PROFESSIONAL WHAT YOU WILL LEARN END TO END SOLUTIONS TO ML AI PROBLEMS DATA AUGMENTATION AND TRANSFER LEARNING OPTIMIZING AI ML SOLUTIONS AT EACH STEP OF DEVELOPMENT MULTIPLE HANDS ON REAL CASE STUDIES CHOOSE BETWEEN VARIOUS ML AI MODELS WHO THIS BOOK IS FOR THIS BOOK EMPOWERS DATA SCIENTISTS DEVELOPERS AND AI ENTHUSIASTS AT ALL LEVELS TO UNLOCK THE FULL POTENTIAL OF THEIR ML SOLUTIONS THIS GUIDE EQUIPS YOU TO BECOME A CONFIDENT AI OPTIMIZATION EXPERT

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MACHINE LEARNING AND BIG DATA

2020-09-01

THIS BOOK IS INTENDED FOR ACADEMIC AND INDUSTRIAL DEVELOPERS EXPLORING AND DEVELOPING APPLICATIONS IN THE AREA OF BIG DATA AND MACHINE LEARNING INCLUDING THOSE THAT ARE SOLVING TECHNOLOGY REQUIREMENTS EVALUATION OF METHODOLOGY ADVANCES AND ALGORITHM DEMONSTRATIONS THE INTENT OF THIS BOOK IS TO PROVIDE AWARENESS OF ALGORITHMS USED FOR MACHINE LEARNING AND BIG DATA IN THE ACADEMIC AND PROFESSIONAL COMMUNITY THE 17 CHAPTERS ARE DIVIDED INTO 5 SECTIONS THEORETICAL FUNDAMENTALS BIG DATA AND PATTERN RECOGNITION MACHINE LEARNING ALGORITHMS APPLICATIONS MACHINE LEARNING S NEXT FRONTIER AND HANDS ON AND CASE STUDY WHILE IT DWELLS ON THE FOUNDATIONS OF MACHINE LEARNING AND BIG DATA AS A PART OF ANALYTICS IT ALSO FOCUSES ON CONTEMPORARY TOPICS FOR RESEARCH AND DEVELOPMENT IN THIS REGARD THE BOOK COVERS MACHINE LEARNING ALGORITHMS AND THEIR MODERN APPLICATIONS IN DEVELOPING AUTOMATED SYSTEMS SUBJECTS COVERED IN DETAIL INCLUDE MATHEMATICAL FOUNDATIONS OF MACHINE LEARNING WITH VARIOUS EXAMPLES AN EMPIRICAL STUDY OF SUPERVISED LEARNING ALGORITHMS LIKE NAIVE BAYES KNN AND SEMI SUPERVISED LEARNING ALGORITHMS VIZ SVM GRAPH BASED MULTIVIEW PRECISE STUDY ON UNSUPERVISED LEARNING ALGORITHMS LIKE GMM K MEAN CLUSTERING DRITCHLET PROCESS MIXTURE MODEL X MEANS AND REINFORCEMENT LEARNING ALGORITHM WITH Q LEARNING R LEARNING TD LEARNING SARSA LEARNING AND SO FORTH HANDS ON MACHINE LEARNING OPEN SOURCE TOOLS VIZ APACHE MAHOUT H2O CASE STUDIES FOR READERS TO ANALYZE THE PRESCRIBED CASES AND PRESENT THEIR SOLUTIONS OR INTERPRETATIONS WITH INTRUSION DETECTION IN MANETS USING MACHINE LEARNING SHOWCASE ON NOVEL USER CASES IMPLICATIONS OF ELECTRONIC GOVERNANCE AS WELL AS PRAGMATIC STUDY OF BD ML TECHNOLOGIES FOR AGRICULTURE HEALTHCARE SOCIAL MEDIA INDUSTRY BANKING INSURANCE AND SO ON

MACHINE LEARNING ALGORITHMS AND APPLICATIONS

2021-08-24

MACHINE LEARNING ALGORITHMS IS FOR CURRENT AND AMBITIOUS MACHINE LEARNING SPECIALISTS LOOKING TO IMPLEMENT SOLUTIONS TO REAL WORLD MACHINE LEARNING PROBLEMS IT TALKS ENTIRELY ABOUT THE VARIOUS APPLICATIONS OF MACHINE AND DEEP LEARNING TECHNIQUES WITH EACH CHAPTER DEALING WITH A NOVEL APPROACH OF MACHINE LEARNING ARCHITECTURE FOR A SPECIFIC APPLICATION AND THEN COMPARES THE RESULTS WITH PREVIOUS ALGORITHMS THE BOOK DISCUSSES MANY METHODS BASED IN DIFFERENT FIELDS INCLUDING STATISTICS PATTERN RECOGNITION NEURAL NETWORKS ARTIFICIAL INTELLIGENCE SENTIMENT ANALYSIS CONTROL AND DATA MINING IN ORDER TO PRESENT A UNIFIED TREATMENT OF MACHINE LEARNING PROBLEMS AND SOLUTIONS ALL LEARNING ALGORITHMS ARE EXPLAINED SO THAT THE USER CAN EASILY MOVE FROM THE EQUATIONS IN THE BOOK TO A COMPUTER PROGRAM

OPTIMIZATION IN MACHINE LEARNING AND APPLICATIONS

2019-11-29

2023-10-01

3/17

THIS BOOK DISCUSSES ONE OF THE MAJOR APPLICATIONS OF ARTIFICIAL INTELLIGENCE THE USE OF MACHINE LEARNING TO EXTRACT USEFUL INFORMATION FROM MULTIMODAL DATA IT DISCUSSES THE OPTIMIZATION METHODS THAT HELP MINIMIZE THE ERROR IN DEVELOPING PATTERNS AND CLASSIFICATIONS WHICH FURTHER HELPS IMPROVE PREDICTION AND DECISION MAKING THE BOOK ALSO PRESENTS FORMULATIONS OF REAL WORLD MACHINE LEARNING PROBLEMS AND DISCUSSES AI SOLUTION METHODOLOGIES AS STANDALONE OR HYBRID APPROACHES LASTLY IT PROPOSES NOVEL METAHEURISTIC METHODS TO SOLVE COMPLEX MACHINE LEARNING PROBLEMS FEATURING VALUABLE INSIGHTS THE BOOK HELPS READERS EXPLORE NEW AVENUES LEADING TOWARD MULTIDISCIPLINARY RESEARCH DISCUSSIONS

MACHINE LEARNING DESIGN PATTERNS

2020-10-15

THE DESIGN PATTERNS IN THIS BOOK CAPTURE BEST PRACTICES AND SOLUTIONS TO RECURRING PROBLEMS IN MACHINE LEARNING THE AUTHORS THREE GOOGLE ENGINEERS CATALOG PROVEN METHODS TO HELP DATA SCIENTISTS TACKLE COMMON PROBLEMS THROUGHOUT THE ML PROCESS THESE DESIGN PATTERNS CODIFY THE EXPERIENCE OF HUNDREDS OF EXPERTS INTO STRAIGHTFORWARD APPROACHABLE ADVICE IN THIS BOOK YOU WILL FIND DETAILED EXPLANATIONS OF 30 PATTERNS FOR DATA AND PROBLEM REPRESENTATION OPERATIONALIZATION REPEATABILITY REPRODUCIBILITY FLEXIBILITY EXPLAINABILITY AND FAIRNESS EACH PATTERN INCLUDES A DESCRIPTION OF THE PROBLEM A VARIETY OF POTENTIAL SOLUTIONS AND RECOMMENDATIONS FOR CHOOSING THE BEST TECHNIQUE FOR YOUR SITUATION YOU LL LEARN HOW TO IDENTIFY AND MITIGATE COMMON CHALLENGES WHEN TRAINING EVALUATING AND DEPLOYING ML MODELS REPRESENT DATA FOR DIFFERENT ML MODEL TYPES INCLUDING EMBEDDINGS FEATURE CROSSES AND MORE CHOOSE THE RIGHT MODEL TYPE FOR SPECIFIC PROBLEMS BUILD A ROBUST TRAINING LOOP THAT USES CHECKPOINTS DISTRIBUTION STRATEGY AND HYPERPARAMETER TUNING DEPLOY SCALABLE ML SYSTEMS THAT YOU CAN RETRAIN AND UPDATE TO REFLECT NEW DATA INTERPRET MODEL PREDICTIONS FOR STAKEHOLDERS AND ENSURE MODELS ARE TREATING USERS FAIRLY

MATLAB MACHINE LEARNING RECIPES

2019-01-31

HARNESS THE POWER OF MATLAB TO RESOLVE A WIDE RANGE OF MACHINE LEARNING CHALLENGES THIS BOOK PROVIDES A SERIES OF EXAMPLES OF TECHNOLOGIES CRITICAL TO MACHINE LEARNING EACH EXAMPLE SOLVES A REAL WORLD PROBLEM ALL CODE IN MATLAB MACHINE LEARNING RECIPES A PROBLEM SOLUTION APPROACH IS EXECUTABLE THE TOOLBOX THAT THE CODE USES PROVIDES A COMPLETE SET OF FUNCTIONS NEEDED TO IMPLEMENT ALL ASPECTS OF MACHINE LEARNING AUTHORS MICHAEL PALUSZEK AND STEPHANIE THOMAS SHOW HOW ALL OF THESE TECHNOLOGIES ALLOW THE READER TO BUILD SOPHISTICATED APPLICATIONS TO SOLVE PROBLEMS WITH PATTERN RECOGNITION AUTONOMOUS DRIVING EXPERT SYSTEMS AND MUCH MORE WHAT YOU LL LEARN HOW TO WRITE CODE FOR MACHINE LEARNING ADAPTIVE CONTROL AND ESTIMATION USING MATLAB HOW THESE THREE AREAS COMPLEMENT EACH OTHER HOW THESE THREE AREAS ARE NEEDED FOR ROBUST MACHINE LEARNING APPLICATIONS HOW TO USE MATLAB GRAPHICS AND VISUALIZATION TOOLS FOR MACHINE LEARNING HOW TO CODE REAL WORLD EXAMPLES IN MATLAB FOR MAJOR APPLICATIONS OF MACHINE LEARNING IN BIG DATA WHO IS THIS BOOK FOR THE PRIMARY AUDIENCES ARE ENGINEERS DATA SCIENTISTS AND STUDENTS WANTING A COMPREHENSIVE AND CODE COOKBOOK RICH IN EXAMPLES ON MACHINE LEARNING USING MATLAB

PRACTICAL MACHINE LEARNING

2016-01-30

TACKLE THE REAL WORLD COMPLEXITIES OF MODERN MACHINE LEARNING WITH INNOVATIVE CUTTING EDGE TECHNIQUES ABOUT THIS BOOK FULLY CODED WORKING EXAMPLES USING A WIDE RANGE OF MACHINE LEARNING LIBRARIES AND TOOLS INCLUDING PYTHON R JULIA AND SPARK COMPREHENSIVE PRACTICAL SOLUTIONS TAKING YOU INTO THE FUTURE OF MACHINE LEARNING GO A STEP FURTHER AND INTEGRATE YOUR MACHINE LEARNING PROJECTS WITH HADOOP WHO THIS BOOK IS FOR THIS BOOK HAS BEEN CREATED FOR DATA SCIENTISTS WHO WANT TO SEE MACHINE LEARNING IN ACTION AND EXPLORE ITS REAL WORLD APPLICATION WITH GUIDANCE ON EVERYTHING FROM THE FUNDAMENTALS OF MACHINE LEARNING AND PREDICTIVE ANALYTICS TO THE LATEST INNOVATIONS SET TO LEAD THE BIG DATA REVOLUTION INTO THE FUTURE THIS IS AN UNMISSABLE RESOURCE FOR ANYONE DEDICATED TO TACKLING CURRENT BIG DATA CHALLENGES KNOWLEDGE OF PROGRAMMING PYTHON AND R AND MATHEMATICS IS ADVISABLE IF YOU WANT TO GET STARTED IMMEDIATELY WHAT YOU WILL LEARN IMPLEMENT A WIDE RANGE OF ALGORITHMS AND TECHNIQUES FOR TACKLING COMPLEX DATA GET TO GRIPS WITH SOME OF THE MOST POWERFUL LANGUAGES IN DATA SCIENCE INCLUDING R PYTHON AND JULIA HARNESS THE CAPABILITIES OF SPARK AND HADOOP TO MANAGE AND PROCESS DATA SUCCESSFULLY APPLY THE APPROPRIATE MACHINE LEARNING TECHNIQUE TO ADDRESS REAL WORLD PROBLEMS GET ACQUAINTED WITH DEEP LEARNING AND FIND OUT HOW NEURAL NETWORKS ARE BEING USED AT THE CUTTING EDGE OF MACHINE LEARNING EXPLORE THE FUTURE OF MACHINE LEARNING AND DIVE DEEPER INTO POLYGLOT PERSISTENCE SEMANTIC DATA AND MORE IN DETAIL FINDING MEANING IN INCREASINGLY LARGER AND MORE COMPLEX DATASETS IS A GROWING

DEMAND OF THE MODERN WORLD MACHINE LEARNING AND PREDICTIVE ANALYTICS HAVE BECOME THE MOST IMPORTANT APPROACHES TO UNCOVER DATA GOLD MINES MACHINE LEARNING USES COMPLEX ALGORITHMS TO MAKE IMPROVED PREDICTIONS OF OUTCOMES BASED ON HISTORICAL PATTERNS AND THE BEHAVIOUR OF DATA SETS MACHINE LEARNING CAN DELIVER DYNAMIC INSIGHTS INTO TRENDS PATTERNS AND RELATIONSHIPS WITHIN DATA IMMENSELY VALUABLE TO BUSINESS GROWTH AND DEVELOPMENT THIS BOOK EXPLORES AN EXTENSIVE RANGE OF MACHINE LEARNING TECHNIQUES UNCOVERING HIDDEN TRICKS AND TIPS FOR SEVERAL TYPES OF DATA USING PRACTICAL AND REAL WORLD EXAMPLES WHILE MACHINE LEARNING CAN BE HIGHLY THEORETICAL THIS BOOK OFFERS A REFRESHING HANDS ON APPROACH WITHOUT LOSING SIGHT OF THE UNDERLYING PRINCIPLES INSIDE A FULL EXPLORATION OF THE VARIOUS ALGORITHMS GIVES YOU HIGH QUALITY GUIDANCE SO YOU CAN BEGIN TO SEE JUST HOW EFFECTIVE MACHINE LEARNING IS AT TACKLING CONTEMPORARY CHALLENGES OF BIG DATA THIS IS THE ONLY BOOK YOU NEED TO IMPLEMENT A WHOLE SUITE OF OPEN SOURCE TOOLS FRAMEWORKS AND LANGUAGES IN MACHINE LEARNING WE WILL COVER THE LEADING DATA SCIENCE LANGUAGES PYTHON AND R AND THE UNDERRATED BUT POWERFUL JULIA AS WELL AS A RANGE OF OTHER BIG DATA PLATFORMS INCLUDING SPARK HADOOP AND MAHOUT PRACTICAL MACHINE LEARNING IS AN ESSENTIAL RESOURCE FOR THE MODERN DATA SCIENTISTS WHO WANT TO GET TO GRIPS WITH ITS REAL WORLD APPLICATION WITH THIS BOOK YOU WILL NOT ONLY LEARN THE FUNDAMENTALS OF MACHINE LEARNING BUT DIVE DEEP INTO THE COMPLEXITIES OF REAL WORLD DATA BEFORE MOVING ON TO USING HADOOP AND ITS WIDER ECOSYSTEM OF TOOLS TO PROCESS AND MANAGE YOUR STRUCTURED AND UNSTRUCTURED DATA YOU WILL EXPLORE DIFFERENT MACHINE LEARNING TECHNIQUES FOR BOTH SUPERVISED AND UNSUPERVISED LEARNING FROM DECISION TREES TO NAIVE BAYES CLASSIFIERS AND LINEAR AND CLUSTERING METHODS YOU WILL LEARN STRATEGIES FOR A TRULY ADVANCED APPROACH TO THE STATISTICAL ANALYSIS OF DATA THE BOOK ALSO EXPLORES THE CUTTING EDGE ADVANCEMENTS IN MACHINE LEARNING WITH WORKED EXAMPLES AND GUIDANCE ON DEEP LEARNING AND REINFORCEMENT LEARNING PROVIDING YOU WITH PRACTICAL DEMONSTRATIONS AND SAMPLES THAT HELP TAKE THE THEORY AND MYSTERY OUT OF EVEN THE MOST ADVANCED MACHINE LEARNING METHODOLOGIES STYLE AND APPROACH A PRACTICAL DATA SCIENCE TUTORIAL DESIGNED TO GIVE YOU AN INSIGHT INTO THE PRACTICAL APPLICATION OF MACHINE LEARNING THIS BOOK TAKES YOU THROUGH COMPLEX CONCEPTS AND TASKS IN AN ACCESSIBLE WAY FEATURING INFORMATION ON A WIDE RANGE OF DATA SCIENCE TECHNIQUES PRACTICAL MACHINE LEARNING IS A COMPREHENSIVE DATA SCIENCE RESOURCE

MASTERING MACHINE LEARNING ALGORITHMS

2018-05-25

EXPLORE AND MASTER THE MOST IMPORTANT ALGORITHMS FOR SOLVING COMPLEX MACHINE LEARNING PROBLEMS KEY FEATURES DISCOVER HIGH PERFORMING MACHINE LEARNING ALGORITHMS AND UNDERSTAND HOW THEY WORK IN DEPTH ONE STOP SOLUTION TO MASTERING SUPERVISED UNSUPERVISED AND SEMI SUPERVISED MACHINE LEARNING ALGORITHMS AND THEIR IMPLEMENTATION MASTER CONCEPTS RELATED TO ALGORITHM TUNING PARAMETER OPTIMIZATION AND MORE BOOK DESCRIPTION MACHINE LEARNING IS A SUBSET OF AI THAT AIMS TO MAKE MODERN DAY COMPUTER SYSTEMS SMARTER AND MORE INTELLIGENT THE REAL POWER OF MACHINE LEARNING RESIDES IN ITS ALGORITHMS WHICH MAKE EVEN THE MOST DIFFICULT THINGS CAPABLE OF BEING HANDLED BY MACHINES HOWEVER WITH THE ADVANCEMENT IN THE TECHNOLOGY AND REQUIREMENTS OF DATA MACHINES WILL HAVE TO BE SMARTER THAN THEY ARE TODAY TO MEET THE OVERWHELMING DATA NEEDS MASTERING THESE ALGORITHMS AND USING THEM OPTIMALLY IS THE NEED OF THE HOUR MASTERING MACHINE LEARNING ALGORITHMS IS YOUR COMPLETE GUIDE TO QUICKLY GETTING TO GRIPS WITH POPULAR MACHINE LEARNING ALGORITHMS YOU WILL BE INTRODUCED TO THE MOST WIDELY USED ALGORITHMS IN SUPERVISED UNSUPERVISED AND SEMI SUPERVISED MACHINE LEARNING AND WILL LEARN HOW TO USE THEM IN THE BEST POSSIBLE MANNER RANGING FROM BAYESIAN MODELS TO THE MCMC ALGORITHM TO HIDDEN MARKOV MODELS THIS BOOK WILL TEACH YOU HOW TO EXTRACT FEATURES FROM YOUR DATASET AND PERFORM DIMENSIONALITY REDUCTION BY MAKING USE OF PYTHON BASED LIBRARIES SUCH AS SCIKIT LEARN YOU WILL ALSO LEARN HOW TO USE KERAS AND TENSORFLOW TO TRAIN EFFECTIVE NEURAL NETWORKS IF YOU ARE LOOKING FOR A SINGLE RESOURCE TO STUDY IMPLEMENT AND SOLVE END TO END MACHINE LEARNING PROBLEMS AND USE CASES THIS IS THE BOOK YOU NEED WHAT YOU WILL LEARN EXPLORE HOW A ML MODEL CAN BE TRAINED OPTIMIZED AND EVALUATED UNDERSTAND HOW TO CREATE AND LEARN STATIC AND DYNAMIC PROBABILISTIC MODELS SUCCESSFULLY CLUSTER HIGH DIMENSIONAL DATA AND EVALUATE MODEL ACCURACY DISCOVER HOW ARTIFICIAL NEURAL NETWORKS WORK AND HOW TO TRAIN OPTIMIZE AND VALIDATE THEM WORK WITH AUTOENCODERS AND GENERATIVE ADVERSARIAL NETWORKS APPLY LABEL SPREADING AND PROPAGATION TO LARGE DATASETS EXPLORE THE MOST IMPORTANT REINFORCEMENT LEARNING TECHNIQUES WHO THIS BOOK IS FOR THIS BOOK IS AN IDEAL AND RELEVANT SOURCE OF CONTENT FOR DATA SCIENCE PROFESSIONALS WHO WANT TO DELVE INTO COMPLEX MACHINE LEARNING ALGORITHMS CALIBRATE MODELS AND IMPROVE THE PREDICTIONS OF THE TRAINED MODEL A BASIC KNOWLEDGE OF MACHINE LEARNING IS PREFERRED TO GET THE BEST OUT OF THIS GUIDE

MACHINE LEARNING WITH PYTHON COOKBOOK

2018-03-09

THIS PRACTICAL GUIDE PROVIDES NEARLY 200 SELF CONTAINED RECIPES TO HELP YOU SOLVE MACHINE LEARNING CHALLENGES YOU MAY ENCOUNTER IN YOUR DAILY WORK IF YOU RE COMFORTABLE WITH PYTHON AND ITS LIBRARIES INCLUDING PANDAS AND SCIKIT LEARN YOU LL BE ABLE TO ADDRESS SPECIFIC PROBLEMS SUCH AS LOADING DATA HANDLING TEXT OR NUMERICAL DATA MODEL SELECTION AND DIMENSIONALITY REDUCTION AND MANY OTHER TOPICS EACH RECIPE INCLUDES CODE THAT YOU CAN COPY AND PASTE INTO A TOY DATASET TO ENSURE THAT IT ACTUALLY WORKS FROM THERE YOU CAN INSERT COMBINE OR ADAPT THE CODE TO HELP CONSTRUCT YOUR APPLICATION RECIPES ALSO INCLUDE A DISCUSSION THAT EXPLAINS THE SOLUTION AND PROVIDES MEANINGFUL CONTEXT THIS COOKBOOK TAKES YOU BEYOND

2023-10-01

5/17

THEORY AND CONCEPTS BY PROVIDING THE NUTS AND BOLTS YOU NEED TO CONSTRUCT WORKING MACHINE LEARNING APPLICATIONS YOU LL FIND RECIPES FOR VECTORS MATRICES AND ARRAYS HANDLING NUMERICAL AND CATEGORICAL DATA TEXT IMAGES AND DATES AND TIMES DIMENSIONALITY REDUCTION USING FEATURE EXTRACTION OR FEATURE SELECTION MODEL EVALUATION AND SELECTION LINEAR AND LOGICAL REGRESSION TREES AND FORESTS AND K NEAREST NEIGHBORS SUPPORT VECTOR MACHINES SVM NAIVE BAYES CLUSTERING AND NEURAL NETWORKS SAVING AND LOADING TRAINED MODELS

INTRODUCING MACHINE LEARNING

2020-01-31

MASTER MACHINE LEARNING CONCEPTS AND DEVELOP REAL WORLD SOLUTIONS MACHINE LEARNING OFFERS IMMENSE OPPORTUNITIES AND INTRODUCING MACHINE LEARNING DELIVERS PRACTICAL KNOWLEDGE TO MAKE THE MOST OF THEM DINO AND FRANCESCO ESPOSITO START WITH A QUICK OVERVIEW OF THE FOUNDATIONS OF ARTIFICIAL INTELLIGENCE AND THE BASIC STEPS OF ANY MACHINE LEARNING PROJECT NEXT THEY INTRODUCE MICROSOFT S POWERFUL ML NET LIBRARY INCLUDING CAPABILITIES FOR DATA PROCESSING TRAINING AND EVALUATION THEY PRESENT FAMILIES OF ALGORITHMS THAT CAN BE TRAINED TO SOLVE REAL LIFE PROBLEMS AS WELL AS DEEP LEARNING TECHNIQUES UTILIZING NEURAL NETWORKS THE AUTHORS CONCLUDE BY INTRODUCING VALUABLE RUNTIME SERVICES AVAILABLE THROUGH THE AZURE CLOUD PLATFORM AND CONSIDER THE LONG TERM BUSINESS VISION FOR MACHINE LEARNING 14 TIME MICROSOFT MVP DINO ESPOSITO AND FRANCESCO ESPOSITO HELP YOU EXPLORE WHAT S KNOWN ABOUT HOW HUMANS LEARN AND HOW INTELLIGENT SOFTWARE IS BUILT DISCOVER WHICH PROBLEMS MACHINE LEARNING CAN ADDRESS UNDERSTAND THE MACHINE LEARNING PIPELINE THE STEPS LEADING TO A DELIVERABLE MODEL USE AUTOML TO AUTOMATICALLY SELECT THE BEST PIPELINE FOR ANY PROBLEM AND DATASET MASTER ML NET IMPLEMENT ITS PIPELINE AND APPLY ITS TASKS AND ALGORITHMS EXPLORE THE MATHEMATICAL FOUNDATIONS OF MACHINE LEARNING MAKE PREDICTIONS IMPROVE DECISION MAKING AND APPLY PROBABILISTIC METHODS GROUP DATA VIA CLASSIFICATION AND CLUSTERING LEARN THE FUNDAMENTALS OF DEEP LEARNING INCLUDING NEURAL NETWORK DESIGN LEVERAGE AI CLOUD SERVICES TO BUILD BETTER REAL WORLD SOLUTIONS FASTER ABOUT THIS BOOK FOR PROFESSIONALS WHO WANT TO BUILD MACHINE LEARNING APPLICATIONS BOTH DEVELOPERS WHO NEED DATA SCIENCE SKILLS AND DATA SCIENTISTS WHO NEED RELEVANT PROGRAMMING SKILLS INCLUDES EXAMPLES OF MACHINE LEARNING CODING SCENARIOS BUILT USING THE ML NET LIBRARY

COGNITIVE COMPUTING RECIPES

2019-03-27

SOLVE YOUR AI AND MACHINE LEARNING PROBLEMS USING COMPLETE AND REAL WORLD CODE EXAMPLES USING A PROBLEM SOLUTION APPROACH THIS BOOK MAKES DEEP LEARNING AND MACHINE LEARNING ACCESSIBLE TO EVERYDAY DEVELOPERS BY PROVIDING A COMBINATION OF TOOLS SUCH AS COGNITIVE SERVICES APIS MACHINE LEARNING PLATFORMS AND LIBRARIES ALONG WITH AN OVERVIEW OF THE CONTEMPORARY TECHNOLOGY LANDSCAPE MACHINE LEARNING AND DEEP LEARNING WITH COGNITIVE COMPUTING RECIPES COVERS THE BUSINESS CASE FOR MACHINE LEARNING AND DEEP LEARNING COVERING TOPICS SUCH AS DIGITAL ASSISTANTS COMPUTER VISION TEXT ANALYTICS SPEECH AND ROBOTICS PROCESS AUTOMATION THIS BOOK OFFERS A COMPREHENSIVE TOOLKIT THAT YOU CAN APPLY QUICKLY AND EASILY IN YOUR OWN PROJECTS WITH ITS FOCUS ON MICROSOFT COGNITIVE SERVICES OFFERINGS YOU LL SEE RECIPES USING MULTIPLE DIFFERENT ENVIRONMENTS INCLUDING TENSOWFLOW AND CNTK TO GIVE YOU A BROADER PERSPECTIVE OF THE DEEP LEARNING ECOSYSTEM WHAT YOU WILL LEARNBUILD PRODUCTION READY SOLUTIONS USING MICROSOFT COGNITIVE SERVICES APIS APPLY DEEP LEARNING USING TENSORFLOW AND MICROSOFT COGNITIVE TOOLKIT CNTK SOLVE ENTERPRISE PROBLEMS IN NATURAL LANGUAGE PROCESSING AND COMPUTER VISION DISCOVER THE MACHINE LEARNING DEVELOPMENT LIFE CYCLE FROM FORMAL PROBLEM DEFINITION TO DEPLOYMENT AT SCALE WHO THIS BOOK IS FOR SOFTWARE ENGINEERS AND ENTERPRISE ARCHITECTS WHO WISH TO UNDERSTAND MACHINE LEARNING AND DEEP LEARNING BY BUILDING APPLICATIONS AND SOLVING REAL WORLD BUSINESS PROBLEMS

MACHINE LEARNING ALGORITHMS FOR INDUSTRIAL APPLICATIONS

2020-07-18

THIS BOOK EXPLORES SEVERAL PROBLEMS AND THEIR SOLUTIONS REGARDING DATA ANALYSIS AND PREDICTION FOR INDUSTRIAL APPLICATIONS MACHINE LEARNING IS A PROMINENT TOPIC IN MODERN INDUSTRIES ITS INFLUENCE CAN BE FELT IN MANY ASPECTS OF EVERYDAY LIFE AS THE WORLD RAPIDLY EMBRACES BIG DATA AND DATA ANALYTICS ACCORDINGLY THERE IS A PRESSING NEED FOR NOVEL AND INNOVATIVE ALGORITHMS TO HELP US FIND EFFECTIVE SOLUTIONS IN INDUSTRIAL APPLICATION AREAS SUCH AS MEDIA HEALTHCARE TRAVEL FINANCE AND RETAIL IN ALL OF THESE AREAS DATA IS THE CRUCIAL PARAMETER AND THE MAIN KEY TO UNLOCKING THE VALUE OF INDUSTRY THE BOOK PRESENTS A RANGE OF INTELLIGENT ALGORITHMS THAT CAN BE USED TO FILTER USEFUL INFORMATION IN THE ABOVE MENTIONED APPLICATION

AREAS AND EFFICIENTLY SOLVE PARTICULAR PROBLEMS ITS MAIN OBJECTIVE IS TO RAISE AWARENESS FOR THIS IMPORTANT FIELD AMONG STUDENTS RESEARCHERS AND INDUSTRIAL PRACTITIONERS

ARTIFICIAL INTELLIGENCE BY EXAMPLE

2018-05-31

BE AN ADAPTIVE THINKER THAT LEADS THE WAY TO ARTIFICIAL INTELLIGENCE KEY FEATURES AI BASED EXAMPLES TO GUIDE YOU IN DESIGNING AND IMPLEMENTING MACHINE INTELLIGENCE DEVELOP YOUR OWN METHOD FOR FUTURE AI SOLUTIONS ACQUIRE ADVANCED AI MACHINE LEARNING AND DEEP LEARNING DESIGN SKILLS BOOK DESCRIPTION ARTIFICIAL INTELLIGENCE HAS THE POTENTIAL TO REPLICATE HUMANS IN EVERY FIELD THIS BOOK SERVES AS A STARTING POINT FOR YOU TO UNDERSTAND HOW AI IS BUILT WITH THE HELP OF INTRIGUING EXAMPLES AND CASE STUDIES ARTIFICIAL INTELLIGENCE BY EXAMPLE WILL MAKE YOU AN ADAPTIVE THINKER AND HELP YOU APPLY CONCEPTS TO REAL LIFE SCENARIOS USING SOME OF THE MOST INTERESTING AI EXAMPLES RIGHT FROM A SIMPLE CHESS ENGINE TO A COGNITIVE CHATBOT YOU WILL LEARN HOW TO TACKLE THE MACHINE YOU ARE COMPETING WITH YOU WILL STUDY SOME OF THE MOST ADVANCED MACHINE LEARNING MODELS UNDERSTAND HOW TO APPLY AI TO BLOCKCHAIN AND IOT AND DEVELOP EMOTIONAL QUOTIENT IN CHATBOTS USING NEURAL NETWORKS YOU WILL MOVE ON TO DESIGNING AI SOLUTIONS IN A SIMPLE MANNER RATHER THAN GET CONFUSED BY COMPLEX ARCHITECTURES AND TECHNIQUES THIS COMPREHENSIVE GUIDE WILL BE A STARTER KIT FOR YOU TO DEVELOP AI APPLICATIONS ON YOUR OWN BY THE END OF THIS BOOK WILL HAVE UNDERSTOOD THE FUNDAMENTALS OF AI AND WORKED THROUGH A NUMBER OF CASE STUDIES THAT WILL HELP YOU DEVELOP BUSINESS VISION WHAT YOU WILL LEARN USE ADAPTIVE THINKING TO SOLVE REAL LIFE AI CASE STUDIES RISE BEYOND BEING A MODERN DAY FACTORY CODE WORKER ACQUIRE ADVANCED AI MACHINE LEARNING AND DEEP LEARNING DESIGNING SKILLS LEARN ABOUT COGNITIVE NLP CHATBOTS QUANTUM COMPUTING AND IOT AND BLOCKCHAIN TECHNOLOGY UNDERSTAND FUTURE AI SOLUTIONS AND ADAPT QUICKLY TO THEM DEVELOP OUT OF THE BOX THINKING TO FACE ANY CHALLENGE THE MARKET PRESENTS WHO THIS BOOK IS FOR ARTIFICIAL INTELLIGENCE BY EXAMPLE IS A SIMPLE EXPLANATORY AND DESCRIPTIVE GUIDE FOR JUNIOR DEVELOPERS EXPERIENCED DEVELOPERS TECHNOLOGY CONSULTANTS AND THOSE INTERESTED IN AI WHO WANT TO UNDERSTAND THE FUNDAMENTALS OF ARTIFICIAL INTELLIGENCE AND IMPLEMENT IT PRACTICALLY BY DEVISING SMART SOLUTIONS PRIOR EXPERIENCE WITH PYTHON AND STATISTICAL KNOWLEDGE IS ESSENTIAL TO MAKE THE MOST OUT OF THIS BOOK

HANDS-ON MACHINE LEARNING WITH PYTHON

2022-03-20

HERE IS THE PERFECT COMPREHENSIVE GUIDE FOR READERS WITH BASIC TO INTERMEDIATE LEVEL KNOWLEDGE OF MACHINE LEARNING AND DEEP LEARNING IT INTRODUCES TOOLS SUCH AS NUMPY FOR NUMERICAL PROCESSING PANDAS FOR PANEL DATA ANALYSIS MATPLOTLIB FOR VISUALIZATION SCIKIT LEARN FOR MACHINE LEARNING AND PYTORCH FOR DEEP LEARNING WITH PYTHON IT ALSO SERVES AS A LONG TERM REFERENCE MANUAL FOR THE PRACTITIONERS WHO WILL FIND SOLUTIONS TO COMMONLY OCCURRING SCENARIOS THE BOOK IS DIVIDED INTO THREE SECTIONS THE FIRST SECTION INTRODUCES YOU TO NUMBER CRUNCHING AND DATA ANALYSIS TOOLS USING PYTHON WITH IN DEPTH EXPLANATION ON ENVIRONMENT CONFIGURATION DATA LOADING NUMERICAL PROCESSING DATA ANALYSIS AND VISUALIZATIONS THE SECOND SECTION COVERS MACHINE LEARNING BASICS AND SCIKIT LEARN LIBRARY IT ALSO EXPLAINS SUPERVISED LEARNING UNSUPERVISED LEARNING IMPLEMENTATION AND CLASSIFICATION OF REGRESSION ALGORITHMS AND ENSEMBLE LEARNING METHODS IN AN EASY MANNER WITH THEORETICAL AND PRACTICAL LESSONS THE THIRD SECTION EXPLAINS COMPLEX NEURAL NETWORK ARCHITECTURES WITH DETAILS ON INTERNAL WORKING AND IMPLEMENTATION OF CONVOLUTIONAL NEURAL NETWORKS THE FINAL CHAPTER CONTAINS A DETAILED END TO END SOLUTION WITH NEURAL NETWORKS IN PYTORCH AFTER COMPLETING HANDS ON MACHINE LEARNING WITH PYTHON YOU WILL BE ABLE TO IMPLEMENT MACHINE LEARNING AND NEURAL NETWORK SOLUTIONS AND EXTEND THEM TO YOUR ADVANTAGE WHAT YOU LL LEARN REVIEW DATA STRUCTURES IN NUMPY AND PANDAS DEMONSTRATE MACHINE LEARNING TECHNIQUES AND ALGORITHM UNDERSTAND SUPERVISED LEARNING AND UNSUPERVISED LEARNING EXAMINE CONVOLUTIONAL NEURAL NETWORKS AND RECURRENT NEURAL NETWORKS GET ACQUAINTED WITH SCIKIT LEARN AND PYTORCH PREDICT SEQUENCES IN RECURRENT NEURAL NETWORKS AND LONG SHORT TERM MEMORY WHO THIS BOOK IS FOR DATA SCIENTISTS MACHINE LEARNING ENGINEERS AND SOFTWARE PROFESSIONALS WITH BASIC SKILLS IN PYTHON PROGRAMMING

MACHINE LEARNING SOLUTIONS

2018-04-27

PRACTICAL HANDS ON SOLUTIONS IN PYTHON TO OVERCOME ANY PROBLEM IN MACHINE LEARNING KEY FEATURES MASTER THE ADVANCED CONCEPTS METHODOLOGIES AND USE CASES OF MACHINE LEARNING BUILD ML APPLICATIONS FOR ANALYTICS NLP AND COMPUTER VISION DOMAINS SOLVE THE MOST COMMON PROBLEMS IN BUILDING MACHINE LEARNING MODELS BOOK DESCRIPTION MACHINE LEARNING ML HELPS YOU FIND

HIDDEN INSIGHTS FROM YOUR DATA WITHOUT THE NEED FOR EXPLICIT PROGRAMMING THIS BOOK IS YOUR KEY TO SOLVING ANY KIND OF ML PROBLEM YOU MIGHT COME ACROSS IN YOUR JOB YOU LL ENCOUNTER A SET OF SIMPLE TO COMPLEX PROBLEMS WHILE BUILDING ML MODELS AND YOU LL NOT ONLY RESOLVE THESE PROBLEMS BUT YOU LL ALSO LEARN HOW TO BUILD PROJECTS BASED ON EACH PROBLEM WITH A PRACTICAL APPROACH AND EASY TO FOLLOW EXAMPLES THE BOOK INCLUDES A WIDE RANGE OF APPLICATIONS FROM ANALYTICS AND NLP TO COMPUTER VISION DOMAINS SOME OF THE APPLICATIONS YOU WILL BE WORKING ON INCLUDE STOCK PRICE PREDICTION A RECOMMENDATION ENGINE BUILDING A CHAT BOT A FACIAL EXPRESSION RECOGNITION SYSTEM AND MANY MORE THE PROBLEM EXAMPLES WE COVER INCLUDE IDENTIFYING THE RIGHT ALGORITHM FOR YOUR DATASET AND USE CASES CREATING AND LABELING DATASETS GETTING ENOUGH CLEAN DATA TO CARRY OUT PROCESSING IDENTIFYING OUTLIERS OVERFITTING DATASETS HYPERPARAMETER TUNING AND MORE HERE YOU LL ALSO LEARN TO MAKE MORE TIMELY AND ACCURATE PREDICTIONS IN ADDITION YOU LL DEAL WITH MORE ADVANCED USE CASES SUCH AS BUILDING A GAMING BOT BUILDING AN EXTRACTIVE SUMMARIZATION TOOL FOR MEDICAL DOCUMENTS AND YOU LL ALSO TACKLE THE PROBLEMS FACED WHILE BUILDING AN ML MODEL BY THE END OF THIS BOOK YOU LL BE ABLE TO FINE TUNE YOUR MODELS AS PER YOUR NEEDS TO DELIVER MAXIMUM PRODUCTIVITY WHAT YOU WILL LEARN SELECT THE RIGHT ALGORITHM TO DERIVE THE BEST SOLUTION IN ML DOMAINS PERFORM PREDICTIVE ANALYSIS EFFICIENTLY USING ML ALGORITHMS PREDICT STOCK PRICES USING THE STOCK INDEX VALUE PERFORM CUSTOMER ANALYTICS FOR AN E COMMERCE PLATFORM BUILD RECOMMENDATION ENGINES FOR VARIOUS DOMAINS BUILD NLP APPLICATIONS FOR THE HEALTH DOMAIN BUILD LANGUAGE GENERATION APPLICATIONS USING DIFFERENT NLP TECHNIQUES BUILD COMPUTER VISION APPLICATIONS SUCH AS FACIAL EMOTION RECOGNITION WHO THIS BOOK IS FOR THIS BOOK IS FOR THE INTERMEDIATE USERS SUCH AS MACHINE LEARNING ENGINEERS DATA ENGINEERS DATA SCIENTISTS AND MORE WHO WANT TO SOLVE SIMPLE TO COMPLEX MACHINE LEARNING PROBLEMS IN THEIR DAY TO DAY WORK AND BUILD POWERFUL AND EFFICIENT MACHINE LEARNING MODELS A BASIC UNDERSTANDING OF THE MACHINE LEARNING CONCEPTS AND SOME EXPERIENCE WITH PYTHON PROGRAMMING IS ALL YOU NEED TO GET STARTED WITH THIS BOOK

MACHINE LEARNING ENGINEERING IN ACTION

2022-05-17

FIELD TESTED TIPS TRICKS AND DESIGN PATTERNS FOR BUILDING MACHINE LEARNING PROJECTS THAT ARE DEPLOYABLE MAINTAINABLE AND SECURE FROM CONCEPT TO PRODUCTION IN MACHINE LEARNING ENGINEERING IN ACTION YOU WILL LEARN EVALUATING DATA SCIENCE PROBLEMS TO FIND THE MOST EFFECTIVE SOLUTION SCOPING A MACHINE LEARNING PROJECT FOR USAGE EXPECTATIONS AND BUDGET PROCESS TECHNIQUES THAT MINIMIZE WASTED EFFORT AND SPEED UP PRODUCTION ASSESSING A PROJECT USING STANDARDIZED PROTOTYPING WORK AND STATISTICAL VALIDATION CHOOSING THE RIGHT TECHNOLOGIES AND TOOLS FOR YOUR PROJECT MAKING YOUR CODEBASE MORE UNDERSTANDABLE MAINTAINABLE AND TESTABLE AUTOMATING YOUR TROUBLESHOOTING AND LOGGING PRACTICES FERRYING A MACHINE LEARNING PROJECT FROM YOUR DATA SCIENCE TEAM TO YOUR END USERS IS NO EASY TASK MACHINE LEARNING ENGINEERING IN ACTION WILL HELP YOU MAKE IT SIMPLE INSIDE YOU LL FIND FANTASTIC ADVICE FROM VETERAN INDUSTRY EXPERT BEN WILSON PRINCIPAL RESIDENT SOLUTIONS ARCHITECT AT DATABRICKS BEN INTRODUCES HIS PERSONAL TOOLBOX OF TECHNIQUES FOR BUILDING DEPLOYABLE AND MAINTAINABLE PRODUCTION MACHINE LEARNING SYSTEMS YOU LL LEARN THE IMPORTANCE OF AGILE METHODOLOGIES FOR FAST PROTOTYPING AND CONFERRING WITH STAKEHOLDERS WHILE DEVELOPING A NEW APPRECIATION FOR THE IMPORTANCE OF PLANNING ADOPTING WELL ESTABLISHED SOFTWARE DEVELOPMENT STANDARDS WILL HELP YOU DELIVER BETTER CODE MANAGEMENT AND MAKE IT EASIER TO TEST SCALE AND EVEN REUSE YOUR MACHINE LEARNING CODE EVERY METHOD IS EXPLAINED IN A FRIENDLY PEER TO PEER STYLE AND ILLUSTRATED WITH PRODUCTION READY SOURCE CODE ABOUT THE TECHNOLOGY DELIVER MAXIMUM PERFORMANCE FROM YOUR MODELS AND DATA THIS COLLECTION OF REPRODUCIBLE TECHNIQUES WILL HELP YOU BUILD STABLE DATA PIPELINES EFFICIENT APPLICATION WORKFLOWS AND MAINTAINABLE MODELS EVERY TIME BASED ON DECADES OF GOOD SOFTWARE ENGINEERING PRACTICE MACHINE LEARNING ENGINEERING ENSURES YOUR ML SYSTEMS ARE RESILIENT ADAPTABLE AND PERFORM IN PRODUCTION ABOUT THE BOOK MACHINE LEARNING ENGINEERING IN ACTION TEACHES YOU CORE PRINCIPLES AND PRACTICES FOR DESIGNING BUILDING AND DELIVERING SUCCESSFUL MACHINE LEARNING PROJECTS YOU LL DISCOVER SOFTWARE ENGINEERING TECHNIQUES LIKE CONDUCTING EXPERIMENTS ON YOUR PROTOTYPES AND IMPLEMENTING MODULAR DESIGN THAT RESULT IN RESILIENT ARCHITECTURES AND CONSISTENT CROSS TEAM COMMUNICATION BASED ON THE AUTHOR S EXTENSIVE EXPERIENCE EVERY METHOD IN THIS BOOK HAS BEEN USED TO SOLVE REAL WORLD PROJECTS WHAT S INSIDE SCOPING A MACHINE LEARNING PROJECT FOR USAGE EXPECTATIONS AND BUDGET CHOOSING THE RIGHT TECHNOLOGIES FOR YOUR DESIGN MAKING YOUR CODEBASE MORE UNDERSTANDABLE MAINTAINABLE AND TESTABLE AUTOMATING YOUR TROUBLESHOOTING AND LOGGING PRACTICES ABOUT THE READER FOR DATA SCIENTISTS WHO KNOW MACHINE LEARNING AND THE BASICS OF OBJECT ORIENTED PROGRAMMING ABOUT THE AUTHOR BEN WILSON IS PRINCIPAL RESIDENT SOLUTIONS ARCHITECT AT DATABRICKS WHERE HE DEVELOPED THE DATABRICKS LABS AUTOML PROJECT AND IS AN MLFLOW COMMITTEE MEMBER

IBM WATSON SOLUTIONS FOR MACHINE LEARNING

2021-06-19

UTILIZE PYTHON AND IBM WATSON TO PUT REAL LIFE USE CASES INTO PRODUCTION KEY FEATURES USE OF POPULAR PYTHON PACKAGES FOR BUILDING MACHINE LEARNING SOLUTIONS FROM SCRATCH PRACTICE VARIOUS IBM WATSON MACHINE LEARNING TOOLS FOR COMPUTER VISION AND NATURAL LANGUAGE PROCESSING APPLICATIONS EXPERT LED BEST PRACTICES TO PUT YOUR MACHINE LEARNING SOLUTIONS INTO THE PRODUCTION ENVIRONMENT DESCRIPTION THIS BOOK WILL TAKE YOU THROUGH THE JOURNEY OF SOME AMAZING TOOLS IBM WATSON HAS TO OFFER TO LEVERAGE YOUR MACHINE LEARNING CONCEPTS TO

2023-10-01

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SOLVE SOME REAL LIFE USE CASES THAT ARE PERTINENT TO THE CURRENT INDUSTRY THIS BOOK EXPLORES THE VARIOUS MACHINE LEARNING FUNDAMENTAL CONCEPTS AND HOW TO USE THE PYTHON PROGRAMMING LANGUAGE TO DEAL WITH REAL WORLD USE CASES IT EXPLAINS HOW TO TAKE YOUR CODE AND DEPLOY IT INTO IBM CLOUD LEVERAGING IBM WATSON MACHINE LEARNING WHILE DOING SO THE BOOK ALSO INTRODUCES YOU TO SEVERAL AMAZING IBM WATSON TOOLS SUCH AS WATSON ASSISTANT WATSON DISCOVERY AND WATSON VISUAL RECOGNITION TO EASE OUT VARIOUS MACHINE LEARNING TASKS SUCH AS BUILDING A CHATBOT CREATING A NATURAL LANGUAGE PROCESSING PIPELINE OR AN OPTICAL OBJECT DETECTION APPLICATION WITHOUT A SINGLE LINE OF CODE IT COVERS WATSON AUTO AI WITH WHICH YOU CAN APPLY VARIOUS MACHINE LEARNING ALGORITHMS AND PICK OUT THE BEST FOR YOUR DATASET WITHOUT A SINGLE LINE OF CODE FINALLY YOU WILL BE ABLE TO DEPLOY ALL OF THESE INTO IBM CLOUD AND CONFIGURE YOUR APPLICATION TO MAINTAIN THE PRODUCTION LEVEL RUNTIME AFTER READING THIS BOOK YOU WILL FIND YOURSELF CONFIDENT TO ADMINISTER ANY MACHINE LEARNING USE CASE AND DEPLOY IT INTO PRODUCTION WITHOUT ANY HASSLE YOU WILL BE ABLE TO TAKE UP A COMPLETE END TO END MACHINE LEARNING PROJECT WITH COMPLETE RESPONSIBILITY AND DELIVER THE BEST STANDARDS THE CURRENT INDUSTRY HAS TO OFFER TOWARDS THE END OF THIS BOOK YOU WILL BE ABLE TO BUILD AN END TO END PRODUCTION LEVEL APPLICATION AND DEPLOY IT INTO CLOUD WHAT YOU WILL LEARN REVIEW THE BASICS OF MACHINE LEARNING AND LEARN IMPLEMENTATION USING PYTHON LEARN DEPLOYMENT USING IBM WATSON STUDIO AND WATSON MACHINE LEARNING LEARN HOW TO USE WATSON AUTO AI TO AUTOMATE HYPERPARAMETER TUNING LEARN WATSON ASSISTANT WATSON VISUAL RECOGNITION AND WATSON DISCOVERY LEARN HOW TO IMPLEMENT THE VARIOUS LAYERS OF AN END TO END AI APPLICATION LEARN ALL THE CONFIGURATIONS NEEDED FOR PRODUCTION DEPLOYMENT TO CLOUD WHO THIS BOOK IS FOR THIS BOOK IS FOR ALL DATA PROFESSIONALS ML ENTHUSIASTS AND SOFTWARE DEVELOPERS WHO ARE LOOKING FOR REAL SOLUTIONS TO BE DEVELOPED THE READER IS EXPECTED TO HAVE A PRIOR KNOWLEDGE OF THE WEB APPLICATION ARCHITECTURE AND BASIC PYTHON FUNDAMENTALS

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EFFICIENT REGULARIZED SOLUTION PATH ALGORITHMS WITH APPLICATIONS IN MACHINE LEARNING AND DATA MINING

2000

APPLY CUTTING EDGE AI TECHNIQUES TO YOUR DYNAMICS 365 ENVIRONMENT TO CREATE NEW SOLUTIONS TO OLD BUSINESS PROBLEMS IN MACHINE LEARNING WITH DYNAMICS 365 AND POWER PLATFORM THE ULTIMATE GUIDE TO APPLY PREDICTIVE ANALYTICS AN ACCOMPLISHED TEAM OF DIGITAL AND DATA ANALYTICS EXPERTS DELIVERS A PRACTICAL AND COMPREHENSIVE DISCUSSION OF HOW TO INTEGRATE AI BUILDER WITH DATAVERSE AND DYNAMICS 365 TO CREATE REAL WORLD BUSINESS SOLUTIONS IT ALSO WALKS YOU THROUGH HOW TO BUILD POWERFUL MACHINE LEARNING MODELS USING AZURE DATA LAKE DATABRICKS AZURE SYNAPSE ANALYTICS THE BOOK IS FILLED WITH CLEAR EXPLANATIONS VISUALIZATIONS AND WORKING EXAMPLES THAT GET YOU UP AND RUNNING IN YOUR DEVELOPMENT OF SUPERVISED UNSUPERVISED AND REINFORCEMENT LEARNING TECHNIQUES USING MICROSOFT MACHINE LEARNING TOOLS AND TECHNOLOGIES THESE STRATEGIES WILL TRANSFORM YOUR BUSINESS VERTICALS REDUCING COSTS AND MANUAL PROCESSES IN FINANCE AND OPERATIONS RETAIL TELECOMMUNICATIONS AND MANUFACTURING INDUSTRIES THE AUTHORS DEMONSTRATE WHAT MACHINE LEARNING IS ALL ABOUT AND HOW IT CAN BE APPLIED TO YOUR ORGANIZATION S DYNAMICS 365 AND POWER PLATFORM PROJECTS THE CREATION AND MANAGEMENT OF ENVIRONMENTS FOR DEVELOPMENT TESTING AND PRODUCTION OF A MACHINE LEARNING PROJECT HOW ADOPTING MACHINE LEARNING TECHNIQUES WILL REDEFINE THE FUTURE OF YOUR ERP CRM SYSTEM PERFECT FOR TECHNICAL CONSULTANTS SOFTWARE DEVELOPERS AND SOLUTION ARCHITECTS MACHINE LEARNING WITH DYNAMICS 365 AND POWER PLATFORM IS ALSO AN INDISPENSABLE GUIDE FOR CHIEF TECHNOLOGY OFFICERS SEEKING AN INTUITIVE RESOURCE FOR HOW TO IMPLEMENT MACHINE LEARNING IN MODERN BUSINESS APPLICATIONS TO SOLVE REAL WORLD PROBLEMS

MACHINE LEARNING WITH DYNAMICS 365 AND POWER PLATFORM

2022-01-06

IMPLEMENT MACHINE LEARNING COGNITIVE SERVICES AND ARTIFICIAL INTELLIGENCE SOLUTIONS BY LEVERAGING AZURE CLOUD TECHNOLOGIES KEY FEATURES LEARN ADVANCED CONCEPTS IN AZURE ML AND THE CORTANA INTELLIGENCE SUITE ARCHITECTURE EXPLORE ML SERVER USING SQL SERVER AND HDINSIGHT CAPABILITIES IMPLEMENT VARIOUS TOOLS IN AZURE TO BUILD AND DEPLOY MACHINE LEARNING MODELS BOOK DESCRIPTION IMPLEMENTING MACHINE LEARNING ML AND ARTIFICIAL INTELLIGENCE AI IN THE CLOUD HAD NOT BEEN POSSIBLE EARLIER DUE TO THE LACK OF PROCESSING POWER AND STORAGE HOWEVER AZURE HAS CREATED ML AND AI SERVICES THAT ARE EASY TO IMPLEMENT IN THE CLOUD HANDS ON MACHINE LEARNING WITH AZURE TEACHES YOU HOW TO PERFORM ADVANCED ML PROJECTS IN THE CLOUD IN A COST EFFECTIVE WAY THE BOOK BEGINS BY COVERING THE BENEFITS OF ML AND AI IN THE CLOUD YOU WILL THEN EXPLORE MICROSOFT S TEAM DATA SCIENCE PROCESS TO ESTABLISH A REPEATABLE PROCESS FOR SUCCESSFUL AI DEVELOPMENT AND IMPLEMENTATION YOU WILL ALSO GAIN AN UNDERSTANDING OF AI TECHNOLOGIES AVAILABLE IN AZURE AND THE COGNITIVE SERVICES APIS TO INTEGRATE THEM INTO BOT APPLICATIONS THIS BOOK LETS YOU EXPLORE PREBUILT TEMPLATES WITH AZURE MACHINE LEARNING STUDIO AND BUILD A MODEL USING CANNED ALGORITHMS THAT CAN BE DEPLOYED AS WEB SERVICES THE BOOK THEN TAKES YOU THROUGH A PRECONFIGURED SERIES OF VIRTUAL MACHINES IN AZURE TARGETED AT AI DEVELOPMENT SCENARIOS YOU WILL GET TO GRIPS WITH THE ML SERVER AND ITS CAPABILITIES IN SQL AND HDINSIGHT IN THE CONCLUDING CHAPTERS YOU LL INTEGRATE PATTERNS WITH OTHER NON AI SERVICES IN AZURE BY THE END OF THIS BOOK YOU WILL BE FULLY EQUIPPED TO IMPLEMENT SMART COGNITIVE

2023-10-01

9/17

ACTIONS IN YOUR MODELS WHAT YOU WILL LEARN DISCOVER THE BENEFITS OF LEVERAGING THE CLOUD FOR ML AND AI USE COGNITIVE SERVICES APIS TO BUILD INTELLIGENT BOTS BUILD A MODEL USING CANNED ALGORITHMS FROM MICROSOFT AND DEPLOY IT AS A WEB SERVICE DEPLOY VIRTUAL MACHINES IN AI DEVELOPMENT SCENARIOS APPLY R PYTHON SQL SERVER AND SPARK IN AZURE BUILD AND DEPLOY DEEP LEARNING SOLUTIONS WITH CNTK MMLSPARK AND TENSORFLOW IMPLEMENT MODEL RETRAINING IN IOT STREAMING AND BLOCKCHAIN SOLUTIONS EXPLORE BEST PRACTICES FOR INTEGRATING ML AND AI FUNCTIONS WITH ADLA AND LOGIC APPS WHO THIS BOOK IS FOR IF YOU ARE A DATA SCIENTIST OR DEVELOPER FAMILIAR WITH AZURE ML AND COGNITIVE SERVICES AND WANT TO CREATE SMART MODELS AND MAKE SENSE OF DATA IN THE CLOUD THIS BOOK IS FOR YOU YOU WILL ALSO FIND THIS BOOK USEFUL IF YOU WANT TO BRING POWERFUL MACHINE LEARNING SERVICES INTO YOUR CLOUD APPLICATIONS SOME EXPERIENCE WITH DATA MANIPULATION AND PROCESSING USING LANGUAGES LIKE SQL PYTHON AND R WILL AID IN UNDERSTANDING THE CONCEPTS COVERED IN THIS BOOK

HANDS-ON MACHINE LEARNING WITH AZURE

2018-10-31

UNDERSTAND THE FUNDAMENTALS AND DEVELOP YOUR OWN AI SOLUTIONS IN THIS UPDATED EDITION PACKED WITH MANY NEW EXAMPLES KEY FEATURES AI BASED EXAMPLES TO GUIDE YOU IN DESIGNING AND IMPLEMENTING MACHINE INTELLIGENCE BUILD MACHINE INTELLIGENCE FROM SCRATCH USING ARTIFICIAL INTELLIGENCE EXAMPLES DEVELOP MACHINE INTELLIGENCE FROM SCRATCH USING REAL ARTIFICIAL INTELLIGENCE BOOK DESCRIPTION AI HAS THE POTENTIAL TO REPLICATE HUMANS IN EVERY FIELD ARTIFICIAL INTELLIGENCE BY EXAMPLE SECOND EDITION SERVES AS A STARTING POINT FOR YOU TO UNDERSTAND HOW AI IS BUILT WITH THE HELP OF INTRIGUING AND EXCITING EXAMPLES THIS BOOK WILL MAKE YOU AN ADAPTIVE THINKER AND HELP YOU APPLY CONCEPTS TO REAL WORLD SCENARIOS USING SOME OF THE MOST INTERESTING AI EXAMPLES RIGHT FROM COMPUTER PROGRAMS SUCH AS A SIMPLE CHESS ENGINE TO COGNITIVE CHATBOTS YOU WILL LEARN HOW TO TACKLE THE MACHINE YOU ARE COMPETING WITH YOU WILL STUDY SOME OF THE MOST ADVANCED MACHINE LEARNING MODELS UNDERSTAND HOW TO APPLY AI TO BLOCKCHAIN AND INTERNET OF THINGS IOT AND DEVELOP EMOTIONAL QUOTIENT IN CHATBOTS USING NEURAL NETWORKS SUCH AS RECURRENT NEURAL NETWORKS RNNs AND CONVOLUTIONAL NEURAL NETWORKS CNNs THIS EDITION ALSO HAS NEW EXAMPLES FOR HYBRID NEURAL NETWORKS COMBINING REINFORCEMENT LEARNING RL AND DEEP LEARNING DL CHAINED ALGORITHMS COMBINING UNSUPERVISED LEARNING WITH DECISION TREES RANDOM FORESTS COMBINING DL AND GENETIC ALGORITHMS CONVERSATIONAL USER INTERFACES CUI FOR CHATBOTS NEUROMORPHIC COMPUTING AND QUANTUM COMPUTING BY THE END OF THIS BOOK YOU WILL UNDERSTAND THE FUNDAMENTALS OF AI AND HAVE WORKED THROUGH A NUMBER OF EXAMPLES THAT WILL HELP YOU DEVELOP YOUR AI SOLUTIONS WHAT YOU WILL LEARN APPLY K NEAREST NEIGHBORS KNN TO LANGUAGE TRANSLATIONS AND EXPLORE THE OPPORTUNITIES IN GOOGLE TRANSLATE UNDERSTAND CHAINED ALGORITHMS COMBINING UNSUPERVISED LEARNING WITH DECISION TREES SOLVE THE XOR PROBLEM WITH FEEDFORWARD NEURAL NETWORKS FNN AND BUILD ITS ARCHITECTURE TO REPRESENT A DATA FLOW GRAPH LEARN ABOUT META LEARNING MODELS WITH HYBRID NEURAL NETWORKS CREATE A CHATBOT AND OPTIMIZE ITS EMOTIONAL INTELLIGENCE DEFICIENCIES WITH TOOLS SUCH AS SMALL TALK AND DATA LOGGING BUILD CONVERSATIONAL USER INTERFACES CUI FOR CHATBOTS WRITING GENETIC ALGORITHMS THAT OPTIMIZE DEEP LEARNING NEURAL NETWORKS BUILD QUANTUM COMPUTING CIRCUITS WHO THIS BOOK IS FOR DEVELOPERS AND THOSE INTERESTED IN AI WHO WANT TO UNDERSTAND THE FUNDAMENTALS OF ARTIFICIAL INTELLIGENCE AND IMPLEMENT THEM PRACTICALLY PRIOR EXPERIENCE WITH PYTHON PROGRAMMING AND STATISTICAL KNOWLEDGE IS ESSENTIAL TO MAKE THE MOST OUT OF THIS BOOK

ARTIFICIAL INTELLIGENCE BY EXAMPLE

2020-02-28

ONE OF THE MOST IMPORTANT FUNCTIONS OF ARTIFICIAL INTELLIGENCE AUTOMATED PROBLEM SOLVING CONSISTS MAINLY OF THE DEVELOPMENT OF SOFTWARE SYSTEMS DESIGNED TO FIND SOLUTIONS TO PROBLEMS THESE SYSTEMS UTILIZE A SEARCH SPACE AND ALGORITHMS IN ORDER TO REACH A SOLUTION ARTIFICIAL INTELLIGENCE FOR ADVANCED PROBLEM SOLVING TECHNIQUES OFFERS SCHOLARS AND PRACTITIONERS CUTTING EDGE RESEARCH ON ALGORITHMS AND TECHNIQUES SUCH AS SEARCH DOMAIN INDEPENDENT HEURISTICS SCHEDULING CONSTRAINT SATISFACTION OPTIMIZATION CONFIGURATION AND PLANNING AND HIGHLIGHTS THE RELATIONSHIP BETWEEN THE SEARCH CATEGORIES AND THE VARIOUS WAYS A SPECIFIC APPLICATION CAN BE MODELED AND SOLVED USING ADVANCED PROBLEM SOLVING TECHNIQUES

ARTIFICIAL INTELLIGENCE FOR ADVANCED PROBLEM SOLVING TECHNIQUES

2008-01-31

KNOW HOW TO DO MACHINE LEARNING WITH MICROSOFT TECHNOLOGIES THIS BOOK TEACHES YOU TO DO PREDICTIVE DESCRIPTIVE AND PRESCRIPTIVE ANALYSES WITH MICROSOFT POWER BI AZURE DATA LAKE

SQL SERVER STREAM ANALYTICS AZURE DATABRICKS HD INSIGHT AND MORE THE ABILITY TO ANALYZE MASSIVE AMOUNTS OF REAL TIME DATA AND PREDICT FUTURE BEHAVIOR OF AN ORGANIZATION IS CRITICAL TO ITS LONG TERM SUCCESS DATA SCIENCE AND MORE SPECIFICALLY MACHINE LEARNING ML IS TODAY S GAME CHANGER AND SHOULD BE A KEY BUILDING BLOCK IN EVERY COMPANY S STRATEGY MANAGING A MACHINE LEARNING PROCESS FROM BUSINESS UNDERSTANDING DATA ACQUISITION AND CLEANING MODELING AND DEPLOYMENT IN EACH TOOL IS A VALUABLE SKILL SET MACHINE LEARNING WITH MICROSOFT TECHNOLOGIES IS A DEMO DRIVEN BOOK THAT EXPLAINS HOW TO DO MACHINE LEARNING WITH MICROSOFT TECHNOLOGIES YOU WILL GAIN VALUABLE INSIGHT INTO DESIGNING THE BEST ARCHITECTURE FOR DEVELOPMENT SHARING AND DEPLOYING A MACHINE LEARNING SOLUTION THIS BOOK SIMPLIFIES THE PROCESS OF CHOOSING THE RIGHT ARCHITECTURE AND TOOLS FOR DOING MACHINE LEARNING BASED ON YOUR SPECIFIC INFRASTRUCTURE NEEDS AND REQUIREMENTS DETAILED CONTENT IS PROVIDED ON THE MAIN ALGORITHMS FOR SUPERVISED AND UNSUPERVISED MACHINE LEARNING AND EXAMPLES SHOW ML PRACTICES USING BOTH R AND PYTHON LANGUAGES THE MAIN LANGUAGES INSIDE MICROSOFT TECHNOLOGIES WHAT YOU LL LEARN CHOOSE THE RIGHT MICROSOFT PRODUCT FOR YOUR MACHINE LEARNING SOLUTIONCREATE AND MANAGE MICROSOFT S TOOL ENVIRONMENTS FOR DEVELOPMENT TESTING AND PRODUCTION OF A MACHINE LEARNING PROJECTIMPLEMENT AND DEPLOY SUPERVISED AND UNSUPERVISED LEARNING IN MICROSOFT PRODUCTS SET UP MICROSOFT POWER BI AZURE DATA LAKE SQL SERVER STREAM ANALYTICS AZURE DATABRICKS AND HD INSIGHT TO PERFORM MACHINE LEARNING SET UP A DATA SCIENCE VIRTUAL MACHINE AND TEST DRIVE INSTALLED TOOLS SUCH AS AZURE ML WORKBENCH AZURE ML SERVER DEVELOPER ANACONDA PYTHON JUPYTER NOTEBOOK POWER BI DESKTOP COGNITIVE SERVICES MACHINE LEARNING AND DATA ANALYTICS TOOLS AND MORE ARCHITECT A MACHINE LEARNING SOLUTION FACTORING IN ALL ASPECTS OF SELF SERVICE ENTERPRISE DEPLOYMENT AND SHARING WHO THIS BOOK IS FOR DATA SCIENTISTS DATA ANALYSTS DEVELOPERS ARCHITECTS AND MANAGERS WHO WANT TO LEVERAGE MACHINE LEARNING IN THEIR PRODUCTS ORGANIZATION AND SERVICES AND MAKE EDUCATED COST SAVING DECISIONS ABOUT THEIR ML ARCHITECTURE AND TOOL SET

MACHINE LEARNING WITH MICROSOFT TECHNOLOGIES

2019-06-12

YOUR HANDS ON REFERENCE GUIDE TO DEVELOPING TRAINING AND OPTIMIZING YOUR MACHINE LEARNING MODELS KEY FEATURES YOUR GUIDE TO LEARNING EFFICIENT MACHINE LEARNING PROCESSES FROM SCRATCH EXPLORE EXPERT TECHNIQUES AND HACKS FOR A VARIETY OF MACHINE LEARNING CONCEPTS WRITE EFFECTIVE CODE IN R PYTHON SCALA AND SPARK TO SOLVE ALL YOUR MACHINE LEARNING PROBLEMS BOOK DESCRIPTION MACHINE LEARNING MAKES IT POSSIBLE TO LEARN ABOUT THE UNKNOWNNS AND GAIN HIDDEN INSIGHTS INTO YOUR DATASETS BY MASTERING MANY TOOLS AND TECHNIQUES THIS BOOK GUIDES YOU TO DO JUST THAT IN A VERY COMPACT MANNER AFTER GIVING A QUICK OVERVIEW OF WHAT MACHINE LEARNING IS ALL ABOUT MACHINE LEARNING QUICK REFERENCE JUMPS RIGHT INTO ITS CORE ALGORITHMS AND DEMONSTRATES HOW THEY CAN BE APPLIED TO REAL WORLD SCENARIOS FROM MODEL EVALUATION TO OPTIMIZING THEIR PERFORMANCE THIS BOOK WILL INTRODUCE YOU TO THE BEST PRACTICES IN MACHINE LEARNING FURTHERMORE YOU WILL ALSO LOOK AT THE MORE ADVANCED ASPECTS SUCH AS TRAINING NEURAL NETWORKS AND WORK WITH DIFFERENT KINDS OF DATA SUCH AS TEXT TIME SERIES AND SEQUENTIAL DATA ADVANCED METHODS AND TECHNIQUES SUCH AS CAUSAL INFERENCE DEEP GAUSSIAN PROCESSES AND MORE ARE ALSO COVERED BY THE END OF THIS BOOK YOU WILL BE ABLE TO TRAIN FAST ACCURATE MACHINE LEARNING MODELS AT YOUR FINGERTIPS WHICH YOU CAN EASILY USE AS A POINT OF REFERENCE WHAT YOU WILL LEARN GET A QUICK RUNDOWN OF MODEL SELECTION STATISTICAL MODELING AND CROSS VALIDATION CHOOSE THE BEST MACHINE LEARNING ALGORITHM TO SOLVE YOUR PROBLEM EXPLORE KERNEL LEARNING NEURAL NETWORKS AND TIME SERIES ANALYSIS TRAIN DEEP LEARNING MODELS AND OPTIMIZE THEM FOR MAXIMUM PERFORMANCE BRIEFLY COVER BAYESIAN TECHNIQUES AND SENTIMENT ANALYSIS IN YOUR NLP SOLUTION IMPLEMENT PROBABILISTIC GRAPHICAL MODELS AND CAUSAL INFERENCES MEASURE AND OPTIMIZE THE PERFORMANCE OF YOUR MACHINE LEARNING MODELS WHO THIS BOOK IS FOR IF YOU RE A MACHINE LEARNING PRACTITIONER DATA SCIENTIST MACHINE LEARNING DEVELOPER OR ENGINEER THIS BOOK WILL SERVE AS A REFERENCE POINT IN BUILDING MACHINE LEARNING SOLUTIONS YOU WILL ALSO FIND THIS BOOK USEFUL IF YOU RE AN INTERMEDIATE MACHINE LEARNING DEVELOPER OR DATA SCIENTIST LOOKING FOR A QUICK HANDY REFERENCE TO ALL THE CONCEPTS OF MACHINE LEARNING YOU LL NEED SOME EXPOSURE TO MACHINE LEARNING TO GET THE BEST OUT OF THIS BOOK

MACHINE LEARNING QUICK REFERENCE

2019-01-31

IMPLEMENT REAL WORLD MACHINE LEARNING IN A MICROSERVICES ARCHITECTURE AS WELL AS DESIGN BUILD AND DEPLOY INTELLIGENT MICROSERVICES SYSTEMS USING EXAMPLES AND CASE STUDIES PURCHASE OF THE PRINT OR KINDLE BOOK INCLUDES A FREE PDF EBOOK KEY FEATURESDESIGN BUILD AND RUN MICROSERVICES SYSTEMS THAT UTILIZE THE FULL POTENTIAL OF MACHINE LEARNINGDISCOVER THE LATEST MODELS AND TECHNIQUES FOR COMBINING MICROSERVICES AND MACHINE LEARNING TO CREATE SCALABLE SYSTEMSIMPLEMENT MACHINE LEARNING IN MICROSERVICES ARCHITECTURE USING OPEN SOURCE APPLICATIONS WITH PROS AND CONSBOOK DESCRIPTION WITH THE RISING NEED FOR AGILE DEVELOPMENT AND VERY SHORT TIME TO MARKET SYSTEM DEPLOYMENTS INCORPORATING MACHINE LEARNING ALGORITHMS INTO DECOUPLED FINE GRAINED MICROSERVICES SYSTEMS PROVIDES THE PERFECT TECHNOLOGY MIX FOR MODERN SYSTEMS MACHINE LEARNING IN MICROSERVICES IS YOUR ESSENTIAL GUIDE TO STAYING AHEAD OF THE CURVE IN THIS EVER EVOLVING WORLD OF TECHNOLOGY THE BOOK STARTS BY INTRODUCING YOU TO THE CONCEPT OF MACHINE LEARNING MICROSERVICES ARCHITECTURE MSA AND COMPARING MSA WITH SERVICE BASED AND EVENT DRIVEN ARCHITECTURES ALONG WITH HOW TO TRANSITION INTO MSA NEXT YOU LL LEARN ABOUT THE DIFFERENT APPROACHES TO BUILDING MSA AND FIND OUT HOW TO OVERCOME COMMON PRACTICAL

2023-10-01

11/17

CHALLENGES FACED IN MSA DESIGN AS YOU ADVANCE YOU LL GET TO GRIPS WITH MACHINE LEARNING ML CONCEPTS AND SEE HOW THEY CAN HELP BETTER DESIGN AND RUN MSA SYSTEMS FINALLY THE BOOK WILL TAKE YOU THROUGH PRACTICAL EXAMPLES AND OPEN SOURCE APPLICATIONS THAT WILL HELP YOU BUILD AND RUN HIGHLY EFFICIENT AGILE MICROSERVICES SYSTEMS BY THE END OF THIS MICROSERVICES BOOK YOU LL HAVE A CLEAR IDEA OF DIFFERENT MODELS OF MICROSERVICES ARCHITECTURE AND MACHINE LEARNING AND BE ABLE TO COMBINE BOTH TECHNOLOGIES TO DELIVER A FLEXIBLE AND HIGHLY SCALABLE ENTERPRISE SYSTEM WHAT YOU WILL LEARNRECOGNIZE THE IMPORTANCE OF MSA AND ML AND DEPLOY BOTH TECHNOLOGIES IN ENTERPRISE SYSTEMSEXPLORE MSA ENTERPRISE SYSTEMS AND THEIR GENERAL PRACTICAL CHALLENGESDISCOVER HOW TO DESIGN AND DEVELOP MICROSERVICES ARCHITECTUREUNDERSTAND THE DIFFERENT AI ALGORITHMS TYPES AND MODELS AND HOW THEY CAN BE APPLIED TO MSAIDENTIFY AND OVERCOME COMMON MSA DEPLOYMENT CHALLENGES USING AI AND ML ALGORITHMSEXPLORE GENERAL OPEN SOURCE AND COMMERCIAL TOOLS COMMONLY USED IN MSA ENTERPRISE SYSTEMSWHO THIS BOOK IS FOR THIS BOOK IS FOR MACHINE LEARNING SOLUTION ARCHITECTS SYSTEM AND MACHINE LEARNING DEVELOPERS AND SYSTEM AND SOLUTION INTEGRATORS OF PRIVATE AND PUBLIC SECTOR ORGANIZATIONS BASIC KNOWLEDGE OF DEVOPS SYSTEM ARCHITECTURE AND ARTIFICIAL INTELLIGENCE AI SYSTEMS IS ASSUMED AND WORKING KNOWLEDGE OF THE PYTHON PROGRAMMING LANGUAGE IS HIGHLY DESIRED

MACHINE LEARNING IN MICROSERVICES

2023-03-10

DISCOVER HOW ALL LEVELS ARTIFICIAL INTELLIGENCE AI CAN BE PRESENT IN THE MOST UNIMAGINABLE SCENARIOS OF ORDINARY LIVES THIS BOOK EXPLORES SUBJECTS SUCH AS NEURAL NETWORKS AGENTS MULTI AGENT SYSTEMS SUPERVISED LEARNING AND UNSUPERVISED LEARNING THESE AND OTHER TOPICS WILL BE ADDRESSED WITH REAL WORLD EXAMPLES SO YOU CAN LEARN FUNDAMENTAL CONCEPTS WITH AI SOLUTIONS AND APPLY THEM TO YOUR OWN PROJECTS PEOPLE TEND TO TALK ABOUT AI AS SOMETHING MYSTICAL AND UNRELATED TO THEIR ORDINARY LIFE PRACTICAL ARTIFICIAL INTELLIGENCE PROVIDES SIMPLE EXPLANATIONS AND HANDS ON INSTRUCTIONS RATHER THAN FOCUSING ON THEORY AND OVERLY SCIENTIFIC LANGUAGE THIS BOOK WILL ENABLE PRACTITIONERS OF ALL LEVELS TO NOT ONLY LEARN ABOUT AI BUT IMPLEMENT ITS PRACTICAL USES WHAT YOU LL LEARN UNDERSTAND AGENTS AND MULTI AGENTS AND HOW THEY ARE INCORPORATED RELATE MACHINE LEARNING TO REAL WORLD PROBLEMS AND SEE WHAT IT MEANS TO YOU APPLY SUPERVISED AND UNSUPERVISED LEARNING TECHNIQUES AND METHODS IN THE REAL WORLD IMPLEMENT REINFORCEMENT LEARNING GAME PROGRAMMING SIMULATION AND NEURAL NETWORKS WHO THIS BOOK IS FOR COMPUTER SCIENCE STUDENTS PROFESSIONALS AND HOBBYISTS INTERESTED IN AI AND ITS APPLICATIONS

PRACTICAL ARTIFICIAL INTELLIGENCE

2018-05-23

HEALTHCARE SOLUTIONS USING MACHINE LEARNING AND INFORMATICS COVERS NOVEL AND INNOVATIVE SOLUTIONS FOR HEALTHCARE THAT APPLY MACHINE LEARNING AND BIOMEDICAL INFORMATICS TECHNOLOGY THE HEALTHCARE SECTOR IS ONE OF THE MOST CRITICAL IN SOCIETY THIS BOOK PRESENTS A SERIES OF ARTIFICIAL INTELLIGENCE MACHINE LEARNING AND INTELLIGENT IOT BASED SOLUTIONS FOR MEDICAL IMAGE ANALYSIS MEDICAL BIG DATA PROCESSING AND DISEASE PREDICTIONS MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE USE CASES IN HEALTHCARE PRESENTED IN THE BOOK GIVE RESEARCHERS PRACTITIONERS AND STUDENTS A WIDE RANGE OF PRACTICAL EXAMPLES OF CROSS DOMAIN CONVERGENCE THE WIDE VARIETY OF TOPICS COVERED INCLUDE ARTIFICIAL INTELLIGENCE IN HEALTHCARE MACHINE LEARNING SOLUTIONS FOR SUCH DISEASE AS DIABETES ARTHRITIS CARDIOVASCULAR DISEASE AND COVID 19 BIG DATA ANALYTICS SOLUTIONS FOR HEALTHCARE DATA PROCESSING RELIABLE BIOMEDICAL APPLICATIONS USING AI MODELS INTELLIGENT IOT IN HEALTHCARE THE BOOK EXPLAINS FUNDAMENTAL CONCEPTS AS WELL AS THE ADVANCED USE CASES ILLUSTRATING HOW TO APPLY EMERGING TECHNOLOGIES SUCH AS MACHINE LEARNING AI MODELS AND DATA INFORMATICS INTO PRACTICE TO TACKLE CHALLENGES IN THE FIELD OF HEALTHCARE WITH REAL WORLD SCENARIOS CHAPTERS CONTRIBUTED BY NOTED ACADEMICIANS AND PROFESSIONALS EXAMINE VARIOUS SOLUTIONS FRAMEWORKS APPLICATIONS CASE STUDIES AND BEST PRACTICES IN THE HEALTHCARE DOMAIN

HEALTHCARE SOLUTIONS USING MACHINE LEARNING AND INFORMATICS

2022-10-21

LEARN TO SOLVE CHALLENGING DATA SCIENCE PROBLEMS BY BUILDING POWERFUL MACHINE LEARNING MODELS USING PYTHON ABOUT THIS BOOK UNDERSTAND WHICH ALGORITHMS TO USE IN A GIVEN CONTEXT WITH THE HELP OF THIS EXCITING RECIPE BASED GUIDE THIS PRACTICAL TUTORIAL TACKLES REAL WORLD COMPUTING PROBLEMS THROUGH A RIGOROUS AND EFFECTIVE APPROACH BUILD STATE OF THE ART MODELS AND DEVELOP PERSONALIZED RECOMMENDATIONS TO PERFORM MACHINE LEARNING AT SCALE WHO THIS BOOK IS FOR THIS LEARNING PATH IS FOR PYTHON PROGRAMMERS WHO ARE LOOKING TO USE MACHINE LEARNING ALGORITHMS TO CREATE REAL WORLD APPLICATIONS IT IS IDEAL FOR PYTHON PROFESSIONALS WHO WANT TO WORK WITH LARGE AND COMPLEX DATASETS AND PYTHON DEVELOPERS AND

ANALYSTS OR DATA SCIENTISTS WHO ARE LOOKING TO ADD TO THEIR EXISTING SKILLS BY ACCESSING SOME OF THE MOST POWERFUL RECENT TRENDS IN DATA SCIENCE EXPERIENCE WITH PYTHON JUPYTER NOTEBOOKS AND COMMAND LINE EXECUTION TOGETHER WITH A GOOD LEVEL OF MATHEMATICAL KNOWLEDGE TO UNDERSTAND THE CONCEPTS IS EXPECTED MACHINE LEARNING BASIC KNOWLEDGE IS ALSO EXPECTED WHAT YOU WILL LEARN USE PREDICTIVE MODELING AND APPLY IT TO REAL WORLD PROBLEMS UNDERSTAND HOW TO PERFORM MARKET SEGMENTATION USING UNSUPERVISED LEARNING APPLY YOUR NEW FOUND SKILLS TO SOLVE REAL PROBLEMS THROUGH CLEARLY EXPLAINED CODE FOR EVERY TECHNIQUE AND TEST COMPETE WITH TOP DATA SCIENTISTS BY GAINING A PRACTICAL AND THEORETICAL UNDERSTANDING OF CUTTING EDGE DEEP LEARNING ALGORITHMS INCREASE PREDICTIVE ACCURACY WITH DEEP LEARNING AND SCALABLE DATA HANDLING TECHNIQUES WORK WITH MODERN STATE OF THE ART LARGE SCALE MACHINE LEARNING TECHNIQUES LEARN TO USE PYTHON CODE TO IMPLEMENT A RANGE OF MACHINE LEARNING ALGORITHMS AND TECHNIQUES IN DETAIL MACHINE LEARNING IS INCREASINGLY SPREADING IN THE MODERN DATA DRIVEN WORLD IT IS USED EXTENSIVELY ACROSS MANY FIELDS SUCH AS SEARCH ENGINES ROBOTICS SELF DRIVING CARS AND MORE MACHINE LEARNING IS TRANSFORMING THE WAY WE UNDERSTAND AND INTERACT WITH THE WORLD AROUND US IN THE FIRST MODULE PYTHON MACHINE LEARNING COOKBOOK YOU WILL LEARN HOW TO PERFORM VARIOUS MACHINE LEARNING TASKS USING A WIDE VARIETY OF MACHINE LEARNING ALGORITHMS TO SOLVE REAL WORLD PROBLEMS AND USE PYTHON TO IMPLEMENT THESE ALGORITHMS THE SECOND MODULE ADVANCED MACHINE LEARNING WITH PYTHON IS DESIGNED TO TAKE YOU ON A GUIDED TOUR OF THE MOST RELEVANT AND POWERFUL MACHINE LEARNING TECHNIQUES AND YOU LL ACQUIRE A BROAD SET OF POWERFUL SKILLS IN THE AREA OF FEATURE SELECTION AND FEATURE ENGINEERING THE THIRD MODULE IN THIS LEARNING PATH LARGE SCALE MACHINE LEARNING WITH PYTHON DIVES INTO SCALABLE MACHINE LEARNING AND THE THREE FORMS OF SCALABILITY IT COVERS THE MOST EFFECTIVE MACHINE LEARNING TECHNIQUES ON A MAP REDUCE FRAMEWORK IN HADOOP AND SPARK IN PYTHON THIS LEARNING PATH WILL TEACH YOU PYTHON MACHINE LEARNING FOR THE REAL WORLD THE MACHINE LEARNING TECHNIQUES COVERED IN THIS LEARNING PATH ARE AT THE FOREFRONT OF COMMERCIAL PRACTICE THIS LEARNING PATH COMBINES SOME OF THE BEST THAT PACKT HAS TO OFFER IN ONE COMPLETE CURATED PACKAGE IT INCLUDES CONTENT FROM THE FOLLOWING PACKT PRODUCTS PYTHON MACHINE LEARNING COOKBOOK BY PRATEEK JOSHI ADVANCED MACHINE LEARNING WITH PYTHON BY JOHN HEARTY LARGE SCALE MACHINE LEARNING WITH PYTHON BY BASTIAAN SJARDIN ALBERTO BOSCHETTI LUCA MASSARON STYLE AND APPROACH THIS COURSE IS A SMOOTH LEARNING PATH THAT WILL TEACH YOU HOW TO GET STARTED WITH PYTHON MACHINE LEARNING FOR THE REAL WORLD AND DEVELOP SOLUTIONS TO REAL WORLD PROBLEMS THROUGH THIS COMPREHENSIVE COURSE YOU LL LEARN TO CREATE THE MOST EFFECTIVE MACHINE LEARNING TECHNIQUES FROM SCRATCH AND MORE

PYTHON: REAL WORLD MACHINE LEARNING

2016-11-14

USE MACHINE LEARNING AND ORACLE BUSINESS INTELLIGENCE ENTERPRISE EDITION OBIEE AS A COMPREHENSIVE BI SOLUTION THIS BOOK FOLLOWS A WHEN TO WHY TO AND HOW TO APPROACH TO EXPLAIN THE KEY STEPS INVOLVED IN UTILIZING THE ARTIFICIAL INTELLIGENCE COMPONENTS NOW AVAILABLE FOR A SUCCESSFUL OBIEE IMPLEMENTATION ORACLE BUSINESS INTELLIGENCE WITH MACHINE LEARNING COVERS VARIOUS TECHNOLOGIES INCLUDING USING ORACLE OBIEE R ENTERPRISE SPATIAL MAPS AND MACHINE LEARNING FOR ADVANCED VISUALIZATION AND ANALYTICS THE MACHINE LEARNING MATERIAL FOCUSES ON LEARNING REPRESENTATIONS OF INPUT DATA SUITABLE FOR A GIVEN PREDICTION PROBLEM THIS BOOK FOCUSES ON THE PRACTICAL ASPECTS OF IMPLEMENTING MACHINE LEARNING SOLUTIONS USING THE RICH ORACLE BI ECOSYSTEM THE PRIMARY OBJECTIVE OF THIS BOOK IS TO BRIDGE THE GAP BETWEEN THE ACADEMIC STATE OF THE ART AND THE INDUSTRY STATE OF THE PRACTICE BY INTRODUCING YOU TO MACHINE LEARNING WITH OBIEE WHAT YOU WILL LEARN SEE MACHINE LEARNING IN OBIEE MASTER THE FUNDAMENTALS OF MACHINE LEARNING AND HOW IT PERTAINS TO BI AND ADVANCED ANALYTICS GAIN AN INTRODUCTION TO ORACLE R ENTERPRISE DISCOVER THE PRACTICAL CONSIDERATIONS OF IMPLEMENTING MACHINE LEARNING WITH OBIEE WHO THIS BOOK IS FOR ANALYTICS MANAGERS BI ARCHITECTS AND DEVELOPERS AND DATA SCIENTISTS

ORACLE BUSINESS INTELLIGENCE WITH MACHINE LEARNING

2017-12-18

IMPROVE YOUR PRODUCT KNOWLEDGE AND OWNERSHIP WHILE BUILDING SECURE AND SCALABLE MACHINE LEARNING PLATFORMSPURCHASE OF THE PRINT OR KINDLE BOOK INCLUDES A FREE PDF EBOOK KEY FEATURESSOLVE LARGE SCALE MACHINE LEARNING CHALLENGES IN THE CLOUD WITH A VARIETY OF OPEN SOURCE AND AWS TOOLS AND FRAMEWORKSAPPLY RISK MANAGEMENT TECHNIQUES IN THE MACHINE LEARNING LIFECYCLEUNDERSTAND THE KEY CHALLENGES AND RISKS AROUND IMPLEMENTING GENERATIVE AI AND LEARN ARCHITECTURE PATTERNS FOR SOME SOLUTIONSBOOK DESCRIPTIONDAVID PING HEAD OF ML SOLUTIONS ARCHITECTURE AT AWS PROVIDES VALUABLE INSIGHTS AND PRACTICAL EXAMPLES FOR BECOMING A HIGHLY SKILLED ML SOLUTIONS ARCHITECT LINKING TECHNICAL ARCHITECTURE TO BUSINESS RELATED SKILLS YOU LL START BY UNDERSTANDING ML FUNDAMENTALS AND HOW ML CAN BE APPLIED TO SOLVE REAL WORLD BUSINESS PROBLEMS ONCE YOU VE EXPLORED A FEW LEADING PROBLEM SOLVING ML ALGORITHMS THIS BOOK WILL FOCUS ON CAREFULLY SELECTED AND UPDATED TOPICS LIKE ML ALGORITHMS INCLUDING A NEWLY ADDED SECTION ON GENERATIVE AI AND LARGE LANGUAGE MODELS YOU LL ALSO LEARN ABOUT OPEN SOURCE TECHNOLOGY SUCH AS KUBERNETES KUBEFLOW TO BUILD A DATA SCIENCE ENVIRONMENT AND ML PIPELINES BEFORE MOVING ON TO BUILDING AN ENTERPRISE ML ARCHITECTURE USING AMAZON SERVICES AWS IN THIS LATEST EDITION DAVID HAS UPDATED THE ENTIRE BOOK TO INCORPORATE THE LATEST ADVANCEMENTS IN SCIENCE TECHNOLOGY AND SOLUTION PATTERNS THE BIGGEST NEW

2023-10-01

13/17

ADDITION TO THE HANDBOOK IS A COMPREHENSIVE EXPLORATION OF ML RISK MANAGEMENT GENERATIVE AI AND A DEEP UNDERSTANDING OF THE DIFFERENT STAGES OF AI ML ADOPTION ALLOWING YOU TO ASSESS YOUR COMPANY S POSITION ON ITS AI ML JOURNEYBY THE END OF THIS BOOK YOU WILL HAVE GAINED A COMPREHENSIVE UNDERSTANDING OF AI ML ACROSS ALL KEY ASPECTS INCLUDING BUSINESS USE CASES DATA SCIENCE TECHNOLOGY REAL WORLD SOLUTIONS ARCHITECTURE RISK MANAGEMENT GOVERNANCE AND THE OVERALL AI ML JOURNEY MOREOVER YOU WILL POSSESS THE SKILLS TO DESIGN AND CONSTRUCT ML SOLUTIONS AND PLATFORMS THAT EFFECTIVELY CATER TO COMMON USE CASES AND FOLLOW ESTABLISHED ARCHITECTURE PATTERNS ENABLING YOU TO EXCEL AS A TRUE PROFESSIONAL IN THE FIELD WHAT YOU WILL LEARNAPPLY ML METHODOLOGIES TO SOLVE BUSINESS PROBLEMSDESIGN A PRACTICAL ENTERPRISE ML PLATFORM ARCHITECTUREGAIN A DEEP UNDERSTANDING OF AI RISK MANAGEMENT FRAMEWORKS AND TECHNIQUESBUILD AN END TO END DATA MANAGEMENT ARCHITECTURE USING AWS TRAIN LARGE SCALE ML MODELS AND OPTIMIZE MODEL INFERENCE LATENCYCREATE A BUSINESS APPLICATION USING AI SERVICES AND CUSTOM MODELSDIVE INTO GENERATIVE AI WITH USE CASES ARCHITECTURE PATTERNS RISKS AND ETHICAL CONSIDERATIONSWHO THIS BOOK IS FORTHIS BOOK IS FOR DATA SCIENTISTS DATA ENGINEERS CLOUD ARCHITECTS AND MACHINE LEARNING ENTHUSIASTS WHO WANT TO BECOME MACHINE LEARNING SOLUTIONS ARCHITECTS ALSO THIS BOOK IS A GREAT COMPANION FOR AI ML PRODUCT MANAGERS AND RISK OFFICERS WHO WANT TO GAIN AN UNDERSTANDING OF ML SOLUTIONS AND AI RISK MANAGEMENT AND AI ML SOLUTIONS ARCHITECTS WHO WANT TO EXPAND THEIR SCOPE OF KNOWLEDGE AROUND AI ML YOU LL NEED BASIC KNOWLEDGE OF THE PYTHON PROGRAMMING LANGUAGE AWS LINEAR ALGEBRA PROBABILITY AND NETWORKING CONCEPTS BEFORE YOU GET STARTED WITH THIS HANDBOOK

The Machine Learning Solutions Architect Handbook

2023

FEDERATED LEARNING A COMPREHENSIVE OVERVIEW OF METHODS AND APPLICATIONS PRESENTS AN IN DEPTH DISCUSSION OF THE MOST IMPORTANT ISSUES AND APPROACHES TO FEDERATED LEARNING FOR RESEARCHERS AND PRACTITIONERS FEDERATED LEARNING FL IS AN APPROACH TO MACHINE LEARNING IN WHICH THE TRAINING DATA ARE NOT MANAGED CENTRALLY DATA ARE RETAINED BY DATA PARTIES THAT PARTICIPATE IN THE FL PROCESS AND ARE NOT SHARED WITH ANY OTHER ENTITY THIS MAKES FL AN INCREASINGLY POPULAR SOLUTION FOR MACHINE LEARNING TASKS FOR WHICH BRINGING DATA TOGETHER IN A CENTRALIZED REPOSITORY IS PROBLEMATIC EITHER FOR PRIVACY REGULATORY OR PRACTICAL REASONS THIS BOOK EXPLAINS RECENT PROGRESS IN RESEARCH AND THE STATE OF THE ART DEVELOPMENT OF FEDERATED LEARNING FL FROM THE INITIAL CONCEPTION OF THE FIELD TO FIRST APPLICATIONS AND COMMERCIAL USE TO OBTAIN THIS BROAD AND DEEP OVERVIEW LEADING RESEARCHERS ADDRESS THE DIFFERENT PERSPECTIVES OF FEDERATED LEARNING THE CORE MACHINE LEARNING PERSPECTIVE PRIVACY AND SECURITY DISTRIBUTED SYSTEMS AND SPECIFIC APPLICATION DOMAINS READERS LEARN ABOUT THE CHALLENGES FACED IN EACH OF THESE AREAS HOW THEY ARE INTERCONNECTED AND HOW THEY ARE SOLVED BY STATE OF THE ART METHODS FOLLOWING AN OVERVIEW ON FEDERATED LEARNING BASICS IN THE INTRODUCTION OVER THE FOLLOWING 24 CHAPTERS THE READER WILL DIVE DEEPLY INTO VARIOUS TOPICS A FIRST PART ADDRESSES ALGORITHMIC QUESTIONS OF SOLVING DIFFERENT MACHINE LEARNING TASKS IN A FEDERATED WAY HOW TO TRAIN EFFICIENTLY AT SCALE AND FAIRLY ANOTHER PART FOCUSES ON PROVIDING CLARITY ON HOW TO SELECT PRIVACY AND SECURITY SOLUTIONS IN A WAY THAT CAN BE TAILORED TO SPECIFIC USE CASES WHILE YET ANOTHER CONSIDERS THE PRAGMATICS OF THE SYSTEMS WHERE THE FEDERATED LEARNING PROCESS WILL RUN THE BOOK ALSO COVERS OTHER IMPORTANT USE CASES FOR FEDERATED LEARNING SUCH AS SPLIT LEARNING AND VERTICAL FEDERATED LEARNING FINALLY THE BOOK INCLUDES SOME CHAPTERS FOCUSING ON APPLYING FL IN REAL WORLD ENTERPRISE SETTINGS

Federated Learning

2022-07-07

MANIPULATING OR GRASPING OBJECTS SEEMS LIKE A TRIVIAL TASK FOR HUMANS AS THESE ARE MOTOR SKILLS OF EVERYDAY LIFE NEVERTHELESS MOTOR SKILLS ARE NOT EASY TO LEARN FOR HUMANS AND THIS IS ALSO AN ACTIVE RESEARCH TOPIC IN ROBOTICS HOWEVER MOST SOLUTIONS ARE OPTIMIZED FOR INDUSTRIAL APPLICATIONS AND THUS FEW ARE PLAUSIBLE EXPLANATIONS FOR HUMAN LEARNING THE FUNDAMENTAL CHALLENGE THAT MOTIVATES PATRICK STALPH ORIGINATES FROM THE COGNITIVE SCIENCE HOW DO HUMANS LEARN THEIR MOTOR SKILLS THE AUTHOR MAKES A CONNECTION BETWEEN ROBOTICS AND COGNITIVE SCIENCES BY ANALYZING MOTOR SKILL LEARNING USING IMPLEMENTATIONS THAT COULD BE FOUND IN THE HUMAN BRAIN AT LEAST TO SOME EXTENT THEREFORE THREE SUITABLE MACHINE LEARNING ALGORITHMS ARE SELECTED ALGORITHMS THAT ARE PLAUSIBLE FROM A COGNITIVE VIEWPOINT AND FEASIBLE FOR THE ROBOTICIST THE POWER AND SCALABILITY OF THOSE ALGORITHMS IS EVALUATED IN THEORETICAL SIMULATIONS AND MORE REALISTIC SCENARIOS WITH THE ICUB HUMANOID ROBOT CONVINCING RESULTS CONFIRM THE APPLICABILITY OF THE APPROACH WHILE THE BIOLOGICAL PLAUSIBILITY IS DISCUSSED IN RETROSPECT

ANALYSIS AND DESIGN OF MACHINE LEARNING TECHNIQUES

2014-02-06

2023-10-01

14/17

THIS BOOK DISCUSSES THE APPLICATION OF DIFFERENT MACHINE LEARNING TECHNIQUES TO THE SUB CONCEPTS OF SMART CITIES SUCH AS SMART ENERGY TRANSPORTATION WASTE MANAGEMENT HEALTH INFRASTRUCTURE ETC THE FOCUS OF THIS BOOK IS TO COME UP WITH INNOVATIVE SOLUTIONS IN THE ABOVE MENTIONED ISSUES WITH THE PURPOSE OF ALLEVIATING THE PRESSING NEEDS OF HUMAN SOCIETY THIS BOOK INCLUDES CONTENT WITH PRACTICAL EXAMPLES WHICH ARE EASY TO UNDERSTAND FOR READERS IT ALSO COVERS A MULTI DISCIPLINARY FIELD AND CONSEQUENTLY IT BENEFITS A WIDE READERSHIP INCLUDING ACADEMICS RESEARCHERS AND PRACTITIONERS

MACHINE LEARNING TECHNIQUES FOR SMART CITY APPLICATIONS: TRENDS AND SOLUTIONS

2022-09-19

MANY INDUSTRY EXPERTS CONSIDER UNSUPERVISED LEARNING THE NEXT FRONTIER IN ARTIFICIAL INTELLIGENCE ONE THAT MAY HOLD THE KEY TO GENERAL ARTIFICIAL INTELLIGENCE SINCE THE MAJORITY OF THE WORLD S DATA IS UNLABELED CONVENTIONAL SUPERVISED LEARNING CANNOT BE APPLIED UNSUPERVISED LEARNING ON THE OTHER HAND CAN BE APPLIED TO UNLABELED DATASETS TO DISCOVER MEANINGFUL PATTERNS BURIED DEEP IN THE DATA PATTERNS THAT MAY BE NEAR IMPOSSIBLE FOR HUMANS TO UNCOVER AUTHOR ANKUR PATEL SHOWS YOU HOW TO APPLY UNSUPERVISED LEARNING USING TWO SIMPLE PRODUCTION READY PYTHON FRAMEWORKS SCIKIT LEARN AND TENSORFLOW USING KERAS WITH CODE AND HANDS ON EXAMPLES DATA SCIENTISTS WILL IDENTIFY DIFFICULT TO FIND PATTERNS IN DATA AND GAIN DEEPER BUSINESS INSIGHT DETECT ANOMALIES PERFORM AUTOMATIC FEATURE ENGINEERING AND SELECTION AND GENERATE SYNTHETIC DATASETS ALL YOU NEED IS PROGRAMMING AND SOME MACHINE LEARNING EXPERIENCE TO GET STARTED COMPARE THE STRENGTHS AND WEAKNESSES OF THE DIFFERENT MACHINE LEARNING APPROACHES SUPERVISED UNSUPERVISED AND REINFORCEMENT LEARNING SET UP AND MANAGE MACHINE LEARNING PROJECTS END TO END BUILD AN ANOMALY DETECTION SYSTEM TO CATCH CREDIT CARD FRAUD CLUSTERS USERS INTO DISTINCT AND HOMOGENEOUS GROUPS PERFORM SEMISUPERVISED LEARNING DEVELOP MOVIE RECOMMENDER SYSTEMS USING RESTRICTED BOLTZMANN MACHINES GENERATE SYNTHETIC IMAGES USING GENERATIVE ADVERSARIAL NETWORKS

HANDS-ON UNSUPERVISED LEARNING USING PYTHON

2019-02-21

THIS BOOK PROVIDES COMPREHENSIVE COVERAGE ON A NEW DIRECTION IN COMPUTATIONAL MATHEMATICS RESEARCH AUTOMATIC SEARCH FOR FORMULAS FORMULAS MUST BE SOUGHT IN ALL AREAS OF SCIENCE AND LIFE THESE ARE THE LAWS OF THE UNIVERSE THE MACRO AND MICRO WORLD FUNDAMENTAL PHYSICS ENGINEERING WEATHER AND NATURAL DISASTERS FORECASTING THE SEARCH FOR NEW LAWS IN ECONOMICS POLITICS SOCIOLOGY ACCUMULATING MANY YEARS OF EXPERIENCE IN THE DEVELOPMENT AND APPLICATION OF NUMERICAL METHODS OF SYMBOLIC REGRESSION TO SOLVING CONTROL PROBLEMS THE AUTHORS OFFER NEW POSSIBILITIES NOT ONLY IN THE FIELD OF CONTROL AUTOMATION BUT ALSO IN THE DESIGN OF COMPLETELY DIFFERENT OPTIMAL STRUCTURES IN MANY FIELDS FOR SPECIALISTS IN THE FIELD OF CONTROL MACHINE LEARNING CONTROL BY SYMBOLIC REGRESSION OPENS UP A NEW PROMISING DIRECTION OF RESEARCH AND ACQUAINTS SCIENTISTS WITH THE METHODS OF AUTOMATIC CONSTRUCTION OF CONTROL SYSTEMS FOR SPECIALISTS IN THE FIELD OF MACHINE LEARNING THE BOOK OPENS UP A NEW MUCH BROADER DIRECTION THAN NEURAL NETWORKS METHODS OF SYMBOLIC REGRESSION THIS BOOK MAKES IT EASY TO MASTER THIS NEW AREA IN MACHINE LEARNING AND APPLY THIS APPROACH EVERYWHERE NEURAL NETWORKS ARE USED FOR MATHEMATICIANS THE BOOK OPENS UP A NEW APPROACH TO THE CONSTRUCTION OF NUMERICAL METHODS FOR OBTAINING ANALYTICAL SOLUTIONS TO UNSOLVABLE PROBLEMS FOR EXAMPLE NUMERICAL ANALYTICAL SOLUTIONS OF ALGEBRAIC EQUATIONS DIFFERENTIAL EQUATIONS NON TRIVIAL INTEGRALS ETC FOR SPECIALISTS IN THE FIELD OF ARTIFICIAL INTELLIGENCE THE BOOK OFFERS A MACHINE WAY TO SOLVE PROBLEMS FRAMED IN THE FORM OF ANALYTICAL RELATIONSHIPS

MACHINE LEARNING CONTROL BY SYMBOLIC REGRESSION

2021-10-23

THIS PRACTICAL BOOK PROVIDES AN END TO END GUIDE TO TENSORFLOW THE LEADING OPEN SOURCE SOFTWARE LIBRARY THAT HELPS YOU BUILD AND TRAIN NEURAL NETWORKS FOR DEEP LEARNING NATURAL LANGUAGE PROCESSING NLP SPEECH RECOGNITION AND GENERAL PREDICTIVE ANALYTICS THE BOOK PROVIDES A HANDS ON APPROACH TO TENSORFLOW FUNDAMENTALS FOR A BROAD TECHNICAL AUDIENCE FROM DATA SCIENTISTS AND ENGINEERS TO STUDENTS AND RESEARCHERS THE AUTHORS BEGIN BY WORKING THROUGH SOME BASIC EXAMPLES IN TENSORFLOW BEFORE DIVING DEEPER INTO TOPICS SUCH AS CNN RNN LSTM AND GNN THE BOOK IS WRITTEN FOR THOSE WHO WANT TO BUILD POWERFUL ROBUST AND ACCURATE PREDICTIVE MODELS WITH THE POWER OF TENSORFLOW COMBINED WITH OTHER OPEN SOURCE PYTHON LIBRARIES THE AUTHORS DEMONSTRATE TENSORFLOW PROJECTS ON SINGLE BOARD COMPUTERS SBCS

PROGRAMMING WITH TENSORFLOW

2021-01-22

AUTOMATED MACHINE LEARNING IN ACTION REVEALS HOW YOU CAN AUTOMATE THE BURDENSOME ELEMENTS OF DESIGNING AND TUNING YOUR MACHINE LEARNING SYSTEMS

AUTOMATED MACHINE LEARNING IN ACTION

2022-06-07

THE MAIN FOCUS OF THIS BOOK IS THE EXAMINATION OF WOMEN S HEALTH ISSUES AND THE ROLE MACHINE LEARNING CAN PLAY AS A SOLUTION TO THESE CHALLENGES THIS BOOK WILL ILLUSTRATE ADVANCED INNOVATIVE TECHNIQUES FRAMEWORKS CONCEPTS MACHINE LEARNING METHODOLOGIES ENHANCING THE FUTURE HEALTHCARE SYSTEM COMBATING WOMEN S HEALTH ISSUES WITH MACHINE LEARNING CHALLENGES AND SOLUTIONS EXAMINES THE FUNDAMENTAL CONCEPTS AND ANALYSIS OF MACHINE LEARNING ALGORITHMS THE EDITORS AND AUTHORS OF THIS BOOK EXAMINE NEW APPROACHES FOR DIFFERENT AGE RELATED MEDICAL ISSUES THAT WOMEN FACE TOPICS RANGE FROM DIAGNOSING DISEASES SUCH AS BREAST AND OVARIAN CANCER TO USING DEEP LEARNING IN PRENATAL ULTRASOUND DIAGNOSIS THE AUTHORS ALSO EXAMINE THE BEST MACHINE LEARNING CLASSIFIER FOR CONSTRUCTING THE MOST ACCURATE PREDICTIVE MODEL FOR WOMEN S INFERTILITY RISK AMONG THE TOPICS DISCUSSED ARE GENDER DIFFERENCES IN TYPE 2 DIABETES CARE AND ITS MANAGEMENT AS IT RELATES TO GENDER USING ARTIFICIAL INTELLIGENCE THE BOOK ALSO DISCUSSES ADVANCED TECHNIQUES FOR EVALUATING AND MANAGING CARDIOVASCULAR DISEASE SYMPTOMS WHICH ARE MORE COMMON IN WOMEN BUT OFTEN OVERLOOKED OR MISDIAGNOSED BY MANY HEALTHCARE PROVIDERS THE BOOK CONCLUDES BY PRESENTING FUTURE CONSIDERATIONS AND CHALLENGES IN THE FIELD OF WOMEN S HEALTH USING ARTIFICIAL INTELLIGENCE THIS BOOK IS INTENDED FOR MEDICAL RESEARCHERS HEALTHCARE TECHNICIANS SCIENTISTS PROGRAMMERS AND GRADUATE LEVEL STUDENTS LOOKING TO UNDERSTAND BETTER AND DEVELOP APPLICATIONS OF MACHINE LEARNING DEEP LEARNING IN HEALTHCARE SCENARIOS ESPECIALLY CONCERNING WOMEN S HEALTH CONDITIONS

COMBATING WOMEN'S HEALTH ISSUES WITH MACHINE LEARNING

2023-10-23

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