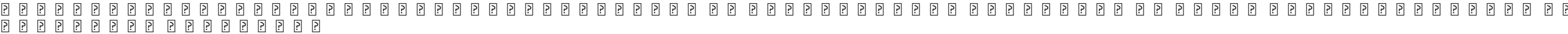


Download Free Data Mining and Machine Learning in Cybersecurity (Read Only)

Artificial Intelligence and Machine Learning Fundamentals The Machine Learning Solutions Architect Handbook Optimizing AI and Machine Learning Solutions Human and Machine Learning Machine Learning Algorithms I Learning For Dummies Demystifying Artificial Intelligence Machine Learning and Big Data Machine Learning for Kids Artificial Intelligence and Machine Learning Mastering Machine Learning with R Automated Machine Learning Optimization and Machine Learning Machine Learning Algorithms The Simple Path to Learn Artificial Intelligence and Machine Learning Machine Learning Models and Algorithms for Big Data Classification Introduction to Machine Learning Machine Learning and Data Science Machine Learning for Beginners Machine Learning with R Introduction to Machine Learning, Fourth Edition Data Science and Machine Learning: From Data to Knowledge AI and Machine Learning for Coders Machine Learning Q and AI Advanced Machine Learning with R TensorFlow Deep Learning Projects Foundations of Machine Learning Grokking Machine Learning Artificial Intelligence and Machine Learning Fundamentals Machine Learning for Beginners Biomedical and Business Applications Using Artificial Neural Networks and Machine Learning Machine Learning for Developers Machine Learning: End-to-End Guide for Java Developers Lifelong Machine Learning AI and Machine Learning for Coders TensorFlow Up Machine Learning Machine Intelligence: Demystifying Machine Learning, Neural Networks and Deep Learning



2015-04-07



ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING FUNDAMENTALS

2018-12-12

CREATE AI APPLICATIONS IN PYTHON AND LAY THE FOUNDATIONS FOR YOUR CAREER IN DATA SCIENCE KEY FEATURES PRACTICAL EXAMPLES THAT EXPLAIN KEY MACHINE LEARNING ALGORITHMSEXPLORE NEURAL NETWORKS IN DETAIL WITH INTERESTING EXAMPLESMASTER CORE AI CONCEPTS WITH ENGAGING ACTIVITIESBOOK DESCRIPTION MACHINE LEARNING AND NEURAL NETWORKS ARE PILLARS ON WHICH YOU CAN BUILD INTELLIGENT APPLICATIONS ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING FUNDAMENTALS BEGINS BY INTRODUCING YOU TO PYTHON AND DISCUSSING AI SEARCH ALGORITHMS YOU WILL COVER IN DEPTH MATHEMATICAL TOPICS SUCH AS REGRESSION AND CLASSIFICATION ILLUSTRATED BY PYTHON EXAMPLES AS YOU MAKE YOUR WAY THROUGH THE BOOK YOU WILL PROGRESS TO ADVANCED AI TECHNIQUES AND CONCEPTS AND WORK ON REAL LIFE DATASETS TO FORM DECISION TREES AND CLUSTERS YOU WILL BE INTRODUCED TO NEURAL NETWORKS A POWERFUL TOOL BASED ON MOORE S LAW BY THE END OF THIS BOOK YOU WILL BE CONFIDENT WHEN IT COMES TO BUILDING YOUR OWN AI APPLICATIONS WITH YOUR NEWLY ACQUIRED SKILLS WHAT YOU WILL LEARNUNDERSTAND THE IMPORTANCE PRINCIPLES AND FIELDS OF AIIMPLEMENT BASIC ARTIFICIAL INTELLIGENCE CONCEPTS WITH PYTHONAPPLY REGRESSION AND CLASSIFICATION CONCEPTS TO REAL WORLD PROBLEMSPERFORM PREDICTIVE ANALYSIS USING DECISION TREES AND RANDOM FORESTSCARRY OUT CLUSTERING USING THE K MEANS AND MEAN SHIFT ALGORITHMSUNDERSTAND THE FUNDAMENTALS OF DEEP LEARNING VIA PRACTICAL EXAMPLESWHO THIS BOOK IS FOR ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING FUNDAMENTALS IS FOR SOFTWARE DEVELOPERS AND DATA SCIENTISTS WHO WANT TO ENRICH THEIR PROJECTS WITH MACHINE LEARNING YOU DO NOT NEED ANY PRIOR EXPERIENCE IN AI HOWEVER IT S RECOMMENDED THAT YOU HAVE KNOWLEDGE OF HIGH SCHOOL LEVEL MATHEMATICS AND AT LEAST ONE PROGRAMMING LANGUAGE PREFERABLY PYTHON

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 DESCRIPTIONWHEN 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

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 TABLE OF CONTENTS 1 OPTIMIZING A MACHINE LEARNING ARTIFICIAL INTELLIGENCE SOLUTION 2 ML PROBLEM FORMULATION SETTING THE RIGHT OBJECTIVE 3 DATA

COLLECTION AND PRE PROCESSING 4 MODEL EVALUATION AND DEBUGGING 5 IMBALANCED MACHINE LEARNING 6 HYPER PARAMETER TUNING 7 PARAMETER OPTIMIZATION ALGORITHMS 8 OPTIMIZING DEEP LEARNING MODELS 9 OPTIMIZING IMAGE MODELS 10 OPTIMIZING NATURAL LANGUAGE PROCESSING MODELS 11 TRANSFER LEARNING

2008-07

2018-06-07

HUMAN AND MACHINE LEARNING

2018-06-07

WITH AN EVOLUTIONARY ADVANCEMENT OF MACHINE LEARNING ML ALGORITHMS A RAPID INCREASE OF DATA VOLUMES AND A SIGNIFICANT IMPROVEMENT OF COMPUTATION POWERS MACHINE LEARNING BECOMES HOT IN DIFFERENT APPLICATIONS HOWEVER BECAUSE OF THE NATURE OF BLACK BOX IN ML METHODS ML STILL NEEDS TO BE INTERPRETED TO LINK HUMAN AND MACHINE LEARNING FOR TRANSPARENCY AND USER ACCEPTANCE OF DELIVERED SOLUTIONS THIS EDITED BOOK ADDRESSES SUCH LINKS FROM THE PERSPECTIVES OF VISUALISATION EXPLANATION TRUSTWORTHINESS AND TRANSPARENCY THE BOOK ESTABLISHES THE LINK BETWEEN HUMAN AND MACHINE LEARNING BY EXPLORING TRANSPARENCY IN MACHINE LEARNING VISUAL EXPLANATION OF ML PROCESSES ALGORITHMIC EXPLANATION OF ML MODELS HUMAN COGNITIVE RESPONSES IN ML BASED DECISION MAKING HUMAN EVALUATION OF MACHINE LEARNING AND DOMAIN KNOWLEDGE IN TRANSPARENT ML APPLICATIONS THIS IS THE FIRST BOOK OF ITS KIND TO SYSTEMATICALLY UNDERSTAND THE CURRENT ACTIVE RESEARCH ACTIVITIES AND OUTCOMES RELATED TO HUMAN AND MACHINE LEARNING THE BOOK WILL NOT ONLY INSPIRE RESEARCHERS TO PASSIONATELY DEVELOP NEW ALGORITHMS INCORPORATING HUMAN FOR HUMAN CENTRED ML ALGORITHMS RESULTING IN THE OVERALL ADVANCEMENT OF ML BUT ALSO HELP ML PRACTITIONERS PROACTIVELY USE ML OUTPUTS FOR INFORMATIVE AND TRUSTWORTHY DECISION MAKING THIS BOOK IS INTENDED FOR RESEARCHERS AND PRACTITIONERS INVOLVED WITH MACHINE LEARNING AND ITS APPLICATIONS THE BOOK WILL ESPECIALLY BENEFIT RESEARCHERS IN AREAS LIKE ARTIFICIAL INTELLIGENCE DECISION SUPPORT SYSTEMS AND HUMAN COMPUTER INTERACTION

MACHINE LEARNING ALGORITHMS

2018-08-30

AN EASY TO FOLLOW STEP BY STEP GUIDE FOR GETTING TO GRIPS WITH THE REAL WORLD APPLICATION OF MACHINE LEARNING ALGORITHMS KEY FEATURES EXPLORE STATISTICS AND COMPLEX MATHEMATICS FOR DATA INTENSIVE APPLICATIONS DISCOVER NEW DEVELOPMENTS IN EM ALGORITHM PCA AND BAYESIAN REGRESSION STUDY PATTERNS AND MAKE PREDICTIONS ACROSS VARIOUS DATASETS BOOK DESCRIPTION MACHINE LEARNING HAS GAINED TREMENDOUS POPULARITY FOR ITS POWERFUL AND FAST PREDICTIONS WITH LARGE DATASETS HOWEVER THE TRUE FORCES BEHIND ITS POWERFUL OUTPUT ARE THE COMPLEX ALGORITHMS INVOLVING SUBSTANTIAL STATISTICAL ANALYSIS THAT CHURN LARGE DATASETS AND GENERATE SUBSTANTIAL INSIGHT THIS SECOND EDITION OF MACHINE LEARNING ALGORITHMS WALKS YOU THROUGH PROMINENT DEVELOPMENT OUTCOMES THAT HAVE TAKEN PLACE RELATING TO MACHINE LEARNING ALGORITHMS WHICH CONSTITUTE MAJOR CONTRIBUTIONS TO THE MACHINE LEARNING PROCESS AND HELP YOU TO STRENGTHEN AND MASTER STATISTICAL INTERPRETATION ACROSS THE AREAS OF SUPERVISED SEMI SUPERVISED AND REINFORCEMENT LEARNING ONCE THE CORE CONCEPTS OF AN ALGORITHM HAVE BEEN COVERED YOU LL EXPLORE REAL WORLD EXAMPLES BASED ON THE MOST DIFFUSED LIBRARIES SUCH AS SCIKIT LEARN NLTK TENSORFLOW AND KERAS YOU WILL DISCOVER NEW TOPICS SUCH AS PRINCIPAL COMPONENT ANALYSIS PCA INDEPENDENT COMPONENT ANALYSIS ICA BAYESIAN REGRESSION DISCRIMINANT ANALYSIS ADVANCED CLUSTERING AND GAUSSIAN MIXTURE BY THE END OF THIS BOOK YOU WILL HAVE STUDIED MACHINE LEARNING ALGORITHMS AND BE ABLE TO PUT THEM INTO PRODUCTION TO MAKE YOUR MACHINE LEARNING APPLICATIONS MORE INNOVATIVE WHAT YOU WILL LEARN STUDY FEATURE SELECTION AND THE FEATURE ENGINEERING PROCESS ASSESS PERFORMANCE AND ERROR TRADE OFFS FOR LINEAR REGRESSION BUILD A DATA MODEL AND UNDERSTAND HOW IT WORKS BY USING DIFFERENT TYPES OF ALGORITHM LEARN TO TUNE THE PARAMETERS OF SUPPORT VECTOR MACHINES SVM EXPLORE THE CONCEPT OF NATURAL LANGUAGE PROCESSING NLP AND RECOMMENDATION SYSTEMS CREATE A MACHINE LEARNING ARCHITECTURE FROM SCRATCH WHO THIS BOOK IS FOR MACHINE LEARNING ALGORITHMS IS FOR YOU IF YOU ARE A MACHINE LEARNING ENGINEER DATA ENGINEER OR JUNIOR DATA SCIENTIST WHO WANTS TO ADVANCE IN THE FIELD OF PREDICTIVE ANALYTICS AND MACHINE LEARNING FAMILIARITY WITH R AND PYTHON WILL BE AN ADDED ADVANTAGE FOR GETTING THE BEST FROM THIS BOOK

MACHINE LEARNING For DUMMIES

2021-02-09

ONE OF MARK CUBAN S TOP READS FOR BETTER UNDERSTANDING A I INC COM 2021 YOUR COMPREHENSIVE ENTRY LEVEL GUIDE TO MACHINE LEARNING WHILE MACHINE LEARNING EXPERTISE DOESN T QUITE MEAN YOU CAN CREATE YOUR OWN TURING TEST PROOF ANDROID AS IN THE MOVIE EX MACHINA IT IS A FORM OF ARTIFICIAL INTELLIGENCE AND ONE OF THE MOST EXCITING TECHNOLOGICAL MEANS OF IDENTIFYING OPPORTUNITIES AND SOLVING PROBLEMS FAST AND ON A LARGE SCALE ANYONE WHO MASTERS THE PRINCIPLES OF MACHINE LEARNING IS MASTERING A BIG PART OF OUR TECH FUTURE AND OPENING UP INCREDIBLE NEW DIRECTIONS IN CAREERS THAT INCLUDE FRAUD DETECTION OPTIMIZING SEARCH RESULTS SERVING REAL TIME ADS CREDIT SCORING BUILDING ACCURATE AND SOPHISTICATED PRICING MODELS AND WAY WAY MORE UNLIKE MOST MACHINE LEARNING BOOKS THE FULLY UPDATED 2ND EDITION OF MACHINE LEARNING FOR DUMMIES DOESN T ASSUME YOU HAVE YEARS OF EXPERIENCE USING PROGRAMMING LANGUAGES SUCH AS PYTHON R SOURCE IS ALSO INCLUDED IN A DOWNLOADABLE FORM WITH COMMENTS AND EXPLANATIONS BUT LETS YOU IN ON THE GROUND FLOOR COVERING THE ENTRY LEVEL MATERIALS THAT WILL GET YOU UP AND RUNNING BUILDING MODELS YOU NEED TO PERFORM PRACTICAL TASKS IT TAKES A LOOK AT THE UNDERLYING AND FASCINATING MATH PRINCIPLES THAT POWER MACHINE LEARNING BUT ALSO SHOWS THAT YOU DON T NEED TO BE A MATH WHIZ TO BUILD FUN NEW TOOLS AND APPLY THEM TO YOUR WORK AND STUDY UNDERSTAND THE HISTORY OF AI AND MACHINE LEARNING WORK WITH PYTHON 3 8 AND TENSORFLOW 2 X AND R AS A DOWNLOAD BUILD AND TEST YOUR OWN MODELS USE THE LATEST DATASETS RATHER THAN THE WORN OUT DATA FOUND IN OTHER BOOKS APPLY MACHINE LEARNING TO REAL PROBLEMS WHETHER YOU WANT TO LEARN FOR COLLEGE OR TO ENHANCE YOUR BUSINESS OR CAREER

PERFORMANCE THIS FRIENDLY BEGINNER S GUIDE IS YOUR BEST INTRODUCTION TO MACHINE LEARNING ALLOWING YOU TO BECOME QUICKLY CONFIDENT USING THIS AMAZING AND FAST DEVELOPING TECHNOLOGY THAT S IMPACTING LIVES FOR THE BETTER ALL OVER THE WORLD

DEMYSTIFYING ARTIFICIAL INTELLIGENCE

2021-01-05

LEARN AI MACHINE LEARNING FROM THE FIRST PRINCIPLES KEY FEATURES[?] [?] EXPLORE HOW DIFFERENT INDUSTRIES ARE USING AI AND ML FOR DIVERSE USE CASES LEARN CORE CONCEPTS OF DATA SCIENCE MACHINE LEARNING DEEP LEARNING AND NLP IN AN EASY AND INTUITIVE MANNER CUTTING EDGE COVERAGE ON USE OF ML FOR BUSINESS PRODUCTS AND SERVICES EXPLORE HOW DIFFERENT COMPANIES ARE MONETIZING AI AND ML TECHNOLOGIES LEARN HOW YOU CAN START YOUR OWN JOURNEY IN THE AI FIELD FROM SCRATCH DESCRIPTION AI AND MACHINE LEARNING ML ARE PROBABLY THE MOST FASCINATING TECHNOLOGIES OF THE 21ST CENTURY AI IS LITERALLY IN EVERY INDUSTRY NOW FROM MEDICAL TO CLIMATE CHANGE EDUCATION TO SPORT FINANCE TO ENTERTAINMENT AI IS DISRUPTING EVERY INDUSTRY AS WE KNOW SO THE BASIC KNOWLEDGE OF AI ML BECOMES MANDATORY FOR EVERYONE THIS BOOK IS YOUR FIRST STEP TO START THE JOURNEY IN THIS FIELD ALONG WITH BASIC CONCEPTS OF FIELDS LIKE MACHINE LEARNING DEEP LEARNING AND NLP WE WILL ALSO EXPLORE HOW BIG COMPANIES ARE USING THESE TECHNOLOGIES TO DELIVER GREATER USER EXPERIENCE AND EARNING MILLIONS OF DOLLARS IN PROFIT ALSO WE WILL SEE HOW THE OWNERS OF SMALL OR MEDIUM SIZED BUSINESSES CAN LEVERAGE AND INTEGRATE THESE TECHNOLOGIES WITH THEIR PRODUCTS AND SERVICES LEVERAGING AI AND ML CAN BECOME THAT COMPETITIVE MOAT WHICH CAN DIFFERENTIATE THE PRODUCT FROM OTHERS IN THIS BOOK YOU WILL LEARN THE ROOT CONCEPTS OF AI ML AND HOW THESE INANIMATE MACHINES CAN ACTUALLY BECOME SMARTER THAN THE HUMANS AT A FEW TASKS AND HOW COMPANIES ARE USING AI AND HOW YOU CAN LEVERAGE AI TO EARN PROFITS WHAT YOU WILL LEARN [?] CORE CONCEPTS OF DATA SCIENCE MACHINE LEARNING DEEP LEARNING AND NLP IN SIMPLE AND INTUITIVE WORDS HOW YOU CAN LEVERAGE AND INTEGRATE AI TECHNOLOGIES IN YOUR BUSINESS TO DIFFERENTIATE YOUR PRODUCT IN THE MARKET THE LIMITATIONS OF TRADITIONAL NON TECH BUSINESSES AND HOW AI CAN BRIDGE THOSE GAPS TO INCREASE REVENUES AND DECREASE COSTS HOW AI CAN HELP COMPANIES IN LAUNCHING NEW PRODUCTS IMPROVING EXISTING ONES AND AUTOMATING MUNDANE PROCESSES EXPLORE HOW BIG TECH COMPANIES ARE USING AI TO AUTOMATE DIFFERENT TASKS AND PROVIDING UNIQUE PRODUCT EXPERIENCES TO THEIR USERS WHO THIS BOOK IS FOR[?] [?] THIS BOOK IS FOR ANYONE WHO IS CURIOUS ABOUT THIS FASCINATING TECHNOLOGY AND HOW IT REALLY WORKS AT ITS CORE IT IS ALSO BENEFICIAL TO THOSE WHO WANT TO START THEIR CAREER IN AI ML TABLE OF CONTENTS[?] 1 INTRODUCTION 2 GOING DEEPER IN ML CONCEPTS 3 BUSINESS PERSPECTIVE OF AI 4 HOW TO GET STARTED AND PITFALLS TO AVOID

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 NA[?] VE BAYES KNN AND SEMI SUPERVISED LEARNING ALGORITHMS VIZ S3VM 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 LEANING 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 FOR KIDS

2021-01-19

A HANDS ON APPLICATION BASED INTRODUCTION TO MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE AI THAT GUIDES YOUNG READERS THROUGH CREATING COMPELLING AI POWERED GAMES AND APPLICATIONS USING THE SCRATCH PROGRAMMING LANGUAGE MACHINE LEARNING ALSO KNOWN AS ML IS ONE OF THE BUILDING BLOCKS OF AI OR ARTIFICIAL INTELLIGENCE AI IS BASED ON THE IDEA THAT COMPUTERS CAN LEARN ON THEIR OWN WITH YOUR HELP MACHINE LEARNING FOR KIDS WILL INTRODUCE YOU TO MACHINE LEARNING PAINLESSLY WITH THIS BOOK AND ITS FREE SCRATCH BASED AWARD WINNING COMPANION WEBSITE YOU LL SEE HOW EASY IT IS TO ADD MACHINE LEARNING TO YOUR OWN PROJECTS YOU DON T EVEN NEED TO KNOW HOW TO CODE AS YOU WORK THROUGH THE BOOK YOU LL DISCOVER HOW MACHINE LEARNING SYSTEMS CAN BE TAUGHT TO RECOGNIZE TEXT IMAGES NUMBERS AND SOUNDS AND HOW TO TRAIN YOUR MODELS TO IMPROVE THEIR ACCURACY YOU LL TURN YOUR MODELS INTO FUN COMPUTER GAMES AND APPS AND SEE WHAT HAPPENS WHEN THEY GET CONFUSED BY BAD DATA YOU LL BUILD 13 PROJECTS STEP BY STEP FROM THE GROUND UP INCLUDING ROCK PAPER SCISSORS GAME THAT RECOGNIZES YOUR HAND SHAPES AN APP THAT RECOMMENDS MOVIES BASED ON OTHER MOVIES THAT YOU LIKE A COMPUTER CHARACTER THAT REACTS TO INSULTS AND COMPLIMENTS AN INTERACTIVE VIRTUAL ASSISTANT LIKE SIRI OR ALEXA THAT OBEYS COMMANDS AN AI VERSION OF PAC MAN WITH A SMART CHARACTER THAT KNOWS HOW TO AVOID GHOSTS NOTE THIS BOOK INCLUDES A SCRATCH TUTORIAL FOR BEGINNERS AND STEP BY STEP INSTRUCTIONS FOR EVERY PROJECT AGES 12

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

2023-06-06

THIS BOOK IS DESIGNED FOR UNDERGRADUATES POSTGRADUATES AND PROFESSIONALS WHO WANT TO HAVE A FIRM GRIP ON THE FUNDAMENTAL PRINCIPLES OF AI AND ML ARTIFICIAL INTELLIGENCE AI IS A BROAD AREA OF KNOWLEDGE WHICH HAS PERCOLATED INTO EVERY ASPECT OF

HUMAN LIFE MACHINE LEARNING ALGORITHMS ARE CONSIDERED TO BE A SUBSET OF AI THEORY MATHEMATICS AND CODING ARE THREE ASPECTS TO ANY TOPIC IN AI THIS BOOK COVERS THE MOST RELEVANT TOPICS IN THE FIELD OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING ML THE SUBDIVISIONS OF MACHINE LEARNING ARE SUPERVISED UNSUPERVISED AND REINFORCEMENT LEARNING ALL THREE ARE COVERED IN SUFFICIENT DEPTH ONE VERY IMPORTANT AND UPCOMING FIELD OF APPLICATION IS NATURAL LANGUAGE PROCESSING NLP A WHOLE SECTION OF THE BOOK HAS BEEN DEVOTED TO THIS THE BOOK COVERS THE CONCEPTUAL MATHEMATICAL AND NUMERICAL ANALYSIS OF THE IMPORTANT ML ALGORITHMS AND THEIR PRACTICAL APPLICATIONS THE TOPICS COVERED INCLUDE AI SEARCH ALGORITHMS CLASSICAL MACHINE LEARNING DEEP LEARNING THEORY AND POPULAR NETWORKS NATURAL LANGUAGE PROCESSING NLP AND REINFORCEMENT LEARNING NUMERICAL EXAMPLES AND LUCID EXPLANATIONS GIVE THE READER AN EASY ENTRY INTO THE WORLD OF AI AND ML

MASTERING MACHINE LEARNING WITH R

2019-01-31

STAY UPDATED WITH EXPERT TECHNIQUES FOR SOLVING DATA ANALYTICS AND MACHINE LEARNING CHALLENGES AND GAIN INSIGHTS FROM COMPLEX PROJECTS AND POWER UP YOUR APPLICATIONS KEY FEATURES BUILD INDEPENDENT MACHINE LEARNING ML SYSTEMS LEVERAGING THE BEST FEATURES OF R 3 5 UNDERSTAND AND APPLY DIFFERENT MACHINE LEARNING TECHNIQUES USING REAL WORLD EXAMPLES USE METHODS SUCH AS MULTI CLASS CLASSIFICATION REGRESSION AND CLUSTERING BOOK DESCRIPTION GIVEN THE GROWING POPULARITY OF THE R ZERO COST STATISTICAL PROGRAMMING ENVIRONMENT THERE HAS NEVER BEEN A BETTER TIME TO START APPLYING ML TO YOUR DATA THIS BOOK WILL TEACH YOU ADVANCED TECHNIQUES IN ML USING THE LATEST CODE IN R 3 5 YOU WILL DELVE INTO VARIOUS COMPLEX FEATURES OF SUPERVISED LEARNING UNSUPERVISED LEARNING AND REINFORCEMENT LEARNING ALGORITHMS TO DESIGN EFFICIENT AND POWERFUL ML MODELS THIS NEWLY UPDATED EDITION IS PACKED WITH FRESH EXAMPLES COVERING A RANGE OF TASKS FROM DIFFERENT DOMAINS MASTERING MACHINE LEARNING WITH R STARTS BY SHOWING YOU HOW TO QUICKLY MANIPULATE DATA AND PREPARE IT FOR ANALYSIS YOU WILL EXPLORE SIMPLE AND COMPLEX MODELS AND UNDERSTAND HOW TO COMPARE THEM YOU LL ALSO LEARN TO USE THE LATEST LIBRARY SUPPORT SUCH AS TENSORFLOW AND KERAS R FOR PERFORMING ADVANCED COMPUTATIONS ADDITIONALLY YOU LL EXPLORE COMPLEX TOPICS SUCH AS NATURAL LANGUAGE PROCESSING NLP TIME SERIES ANALYSIS AND CLUSTERING WHICH WILL FURTHER REFINE YOUR SKILLS IN DEVELOPING APPLICATIONS EACH CHAPTER WILL HELP YOU IMPLEMENT ADVANCED ML ALGORITHMS USING REAL WORLD EXAMPLES YOU LL EVEN BE INTRODUCED TO REINFORCEMENT LEARNING ALONG WITH ITS VARIOUS USE CASES AND MODELS IN THE CONCLUDING CHAPTERS YOU LL GET A GLIMPSE INTO HOW SOME OF THESE BLACKBOX MODELS CAN BE DIAGNOSED AND UNDERSTOOD BY THE END OF THIS BOOK YOU LL BE EQUIPPED WITH THE SKILLS TO DEPLOY ML TECHNIQUES IN YOUR OWN PROJECTS OR AT WORK WHAT YOU WILL LEARN PREPARE DATA FOR MACHINE LEARNING METHODS WITH EASE UNDERSTAND HOW TO WRITE PRODUCTION READY CODE AND PACKAGE IT FOR USE PRODUCE SIMPLE AND EFFECTIVE DATA VISUALIZATIONS FOR IMPROVED INSIGHTS MASTER ADVANCED METHODS SUCH AS BOOSTED TREES AND DEEP NEURAL NETWORKS USE NATURAL LANGUAGE PROCESSING TO EXTRACT INSIGHTS IN RELATION TO TEXT IMPLEMENT TREE BASED CLASSIFIERS INCLUDING RANDOM FOREST AND BOOSTED TREE WHO THIS BOOK IS FOR THIS BOOK IS FOR DATA SCIENCE PROFESSIONALS MACHINE LEARNING ENGINEERS OR ANYONE WHO IS LOOKING FOR THE IDEAL GUIDE TO HELP THEM IMPLEMENT ADVANCED MACHINE LEARNING ALGORITHMS THE BOOK WILL HELP YOU TAKE YOUR SKILLS TO THE NEXT LEVEL AND ADVANCE FURTHER IN THIS FIELD WORKING KNOWLEDGE OF MACHINE LEARNING WITH R IS MANDATORY

AUTOMATED MACHINE LEARNING

2021-02-18

GET TO GRIPS WITH AUTOMATED MACHINE LEARNING AND ADOPT A HANDS ON APPROACH TO AUTOML IMPLEMENTATION AND ASSOCIATED METHODOLOGIES KEY FEATURESGET UP TO SPEED WITH AUTOML USING OSS AZURE AWS GCP OR ANY PLATFORM OF YOUR CHOICEELIMINATE MUNDANE TASKS IN DATA ENGINEERING AND REDUCE HUMAN ERRORS IN MACHINE LEARNING MODELSFIND OUT HOW YOU CAN MAKE MACHINE LEARNING ACCESSIBLE FOR ALL USERS TO PROMOTE DECENTRALIZED PROCESSESBOOK DESCRIPTION EVERY MACHINE LEARNING ENGINEER DEALS WITH SYSTEMS THAT HAVE HYPERPARAMETERS AND THE MOST BASIC TASK IN AUTOMATED MACHINE LEARNING AUTOML IS TO AUTOMATICALLY SET THESE HYPERPARAMETERS TO OPTIMIZE PERFORMANCE THE LATEST DEEP NEURAL NETWORKS HAVE A WIDE RANGE OF HYPERPARAMETERS FOR THEIR ARCHITECTURE REGULARIZATION AND OPTIMIZATION WHICH CAN BE CUSTOMIZED EFFECTIVELY TO SAVE TIME AND EFFORT THIS BOOK REVIEWS THE UNDERLYING TECHNIQUES OF AUTOMATED FEATURE ENGINEERING MODEL AND HYPERPARAMETER TUNING GRADIENT BASED APPROACHES AND MUCH MORE YOU LL DISCOVER DIFFERENT WAYS OF IMPLEMENTING THESE TECHNIQUES IN OPEN SOURCE TOOLS AND THEN LEARN TO USE ENTERPRISE TOOLS FOR IMPLEMENTING AUTOML IN THREE MAJOR CLOUD SERVICE PROVIDERS MICROSOFT AZURE AMAZON SERVICES AWS AND GOOGLE CLOUD PLATFORM AS YOU PROGRESS YOU LL EXPLORE THE FEATURES OF CLOUD AUTOML PLATFORMS BY BUILDING MACHINE LEARNING MODELS USING AUTOML THE BOOK WILL ALSO SHOW YOU HOW TO DEVELOP ACCURATE MODELS BY AUTOMATING TIME CONSUMING AND REPETITIVE TASKS IN THE MACHINE LEARNING DEVELOPMENT LIFECYCLE BY THE END OF THIS MACHINE LEARNING BOOK YOU LL BE ABLE TO BUILD AND DEPLOY AUTOML MODELS THAT ARE NOT ONLY ACCURATE BUT ALSO INCREASE PRODUCTIVITY ALLOW INTEROPERABILITY AND MINIMIZE FEATURE ENGINEERING TASKS WHAT YOU WILL LEARNEXPLORE AUTOML FUNDAMENTALS UNDERLYING METHODS AND TECHNIQUESASSESS AUTOML ASPECTS SUCH AS ALGORITHM SELECTION AUTO FEATURIZATION AND HYPERPARAMETER TUNING IN AN APPLIED SCENARIOFIND OUT THE DIFFERENCE BETWEEN CLOUD AND OPERATIONS SUPPORT SYSTEMS OSS IMPLEMENT AUTOML IN ENTERPRISE CLOUD TO DEPLOY ML MODELS AND PIPELINESBUILD EXPLAINABLE AUTOML PIPELINES WITH TRANSPARENCYUNDERSTAND AUTOMATED FEATURE ENGINEERING AND TIME SERIES FORECASTINGAUTOMATE DATA SCIENCE MODELING TASKS TO IMPLEMENT ML SOLUTIONS EASILY AND FOCUS ON MORE COMPLEX PROBLEMSWHO THIS BOOK IS FOR CITIZEN DATA SCIENTISTS MACHINE LEARNING DEVELOPERS ARTIFICIAL INTELLIGENCE ENTHUSIASTS OR ANYONE LOOKING TO AUTOMATICALLY BUILD MACHINE LEARNING MODELS USING THE FEATURES OFFERED BY OPEN SOURCE TOOLS MICROSOFT AZURE MACHINE LEARNING AWS AND GOOGLE CLOUD PLATFORM WILL FIND THIS BOOK USEFUL BEGINNER LEVEL KNOWLEDGE OF BUILDING ML MODELS IS REQUIRED TO GET THE BEST OUT OF THIS BOOK PRIOR EXPERIENCE IN USING ENTERPRISE CLOUD IS BENEFICIAL

OPTIMIZATION AND MACHINE LEARNING

2022-02-15

MACHINE LEARNING AND OPTIMIZATION TECHNIQUES ARE REVOLUTIONIZING OUR WORLD OTHER TYPES OF INFORMATION TECHNOLOGY HAVE NOT PROGRESSED AS RAPIDLY IN RECENT YEARS IN TERMS OF REAL IMPACT THE AIM OF THIS BOOK IS TO PRESENT SOME OF THE INNOVATIVE TECHNIQUES IN THE FIELD OF OPTIMIZATION AND MACHINE LEARNING AND TO DEMONSTRATE HOW TO APPLY THEM IN THE FIELDS OF ENGINEERING OPTIMIZATION AND MACHINE LEARNING PRESENTS MODERN ADVANCES IN THE SELECTION CONFIGURATION AND ENGINEERING OF ALGORITHMS THAT RELY ON MACHINE LEARNING AND OPTIMIZATION THE FIRST PART OF THE BOOK IS DEDICATED TO APPLICATIONS WHERE OPTIMIZATION PLAYS A MAJOR ROLE AND THE SECOND PART DESCRIBES AND IMPLEMENTS SEVERAL APPLICATIONS THAT ARE MAINLY BASED ON MACHINE LEARNING TECHNIQUES THE METHODS ADDRESSED IN THESE CHAPTERS ARE COMPARED AGAINST THEIR COMPETITORS AND THEIR EFFECTIVENESS IN THEIR CHOSEN FIELD OF APPLICATION IS ILLUSTRATED

MACHINE LEARNING ALGORITHMS

2018-08-30

AN EASY TO FOLLOW STEP BY STEP GUIDE FOR GETTING TO GRIPS WITH THE REAL WORLD APPLICATION OF MACHINE LEARNING ALGORITHMS KEY FEATURES EXPLORE STATISTICS AND COMPLEX MATHEMATICS FOR DATA INTENSIVE APPLICATIONS DISCOVER NEW DEVELOPMENTS IN EM ALGORITHM PCA AND BAYESIAN REGRESSION STUDY PATTERNS AND MAKE PREDICTIONS ACROSS VARIOUS DATASETS BOOK DESCRIPTION MACHINE LEARNING HAS GAINED TREMENDOUS POPULARITY FOR ITS POWERFUL AND FAST PREDICTIONS WITH LARGE DATASETS HOWEVER THE TRUE FORCES BEHIND ITS POWERFUL OUTPUT ARE THE COMPLEX ALGORITHMS INVOLVING SUBSTANTIAL STATISTICAL ANALYSIS THAT CHURN LARGE DATASETS AND GENERATE SUBSTANTIAL INSIGHT THIS SECOND EDITION OF MACHINE LEARNING ALGORITHMS WALKS YOU THROUGH PROMINENT DEVELOPMENT OUTCOMES THAT HAVE TAKEN PLACE RELATING TO MACHINE LEARNING ALGORITHMS WHICH CONSTITUTE MAJOR CONTRIBUTIONS TO THE MACHINE LEARNING PROCESS AND HELP YOU TO STRENGTHEN AND MASTER STATISTICAL INTERPRETATION ACROSS THE AREAS OF SUPERVISED SEMI SUPERVISED AND REINFORCEMENT LEARNING ONCE THE CORE CONCEPTS OF AN ALGORITHM HAVE BEEN COVERED YOU LL EXPLORE REAL WORLD EXAMPLES BASED ON THE MOST DIFFUSED LIBRARIES SUCH AS SCIKIT LEARN NLTK TENSORFLOW AND KERAS YOU WILL DISCOVER NEW TOPICS SUCH AS PRINCIPAL COMPONENT ANALYSIS PCA INDEPENDENT COMPONENT ANALYSIS ICA BAYESIAN REGRESSION DISCRIMINANT ANALYSIS ADVANCED CLUSTERING AND GAUSSIAN MIXTURE BY THE END OF THIS BOOK YOU WILL HAVE STUDIED MACHINE LEARNING ALGORITHMS AND BE ABLE TO PUT THEM INTO PRODUCTION TO MAKE YOUR MACHINE LEARNING APPLICATIONS MORE INNOVATIVE WHAT YOU WILL LEARN STUDY FEATURE SELECTION AND THE FEATURE ENGINEERING PROCESS ASSESS PERFORMANCE AND ERROR TRADE OFFS FOR LINEAR REGRESSION BUILD A DATA MODEL AND UNDERSTAND HOW IT WORKS BY USING DIFFERENT TYPES OF ALGORITHM LEARN TO TUNE THE PARAMETERS OF SUPPORT VECTOR MACHINES SVM EXPLORE THE CONCEPT OF NATURAL LANGUAGE PROCESSING NLP AND RECOMMENDATION SYSTEMS CREATE A MACHINE LEARNING ARCHITECTURE FROM SCRATCH WHO THIS BOOK IS FOR MACHINE LEARNING ALGORITHMS IS FOR YOU IF YOU ARE A MACHINE LEARNING ENGINEER DATA ENGINEER OR JUNIOR DATA SCIENTIST WHO WANTS TO ADVANCE IN THE FIELD OF PREDICTIVE ANALYTICS AND MACHINE LEARNING FAMILIARITY WITH R AND PYTHON WILL BE AN ADDED ADVANTAGE FOR GETTING THE BEST FROM THIS BOOK

THE SIMPLE PATH TO LEARN ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

2015-10-20

WHAT IS AI ARTIFICIAL INTELLIGENCE IS INTELLIGENCE DEMONSTRATED BY MACHINES UNLIKE THE NATURAL INTELLIGENCE DISPLAYED BY HUMANS AND ANIMALS WHICH INVOLVES CONSCIOUSNESS AND EMOTIONALITY THE DISTINCTION BETWEEN THE FORMER AND THE LATTER CATEGORIES IS OFTEN REVEALED BY THE ACRONYM CHOSEN WHAT IS ML MACHINE LEARNING IS THE STUDY OF COMPUTER ALGORITHMS THAT IMPROVE AUTOMATICALLY THROUGH EXPERIENCE IT IS SEEN AS A PART OF ARTIFICIAL INTELLIGENCE ENJOY THIS INTRODUCTORY EBOOK

MACHINE LEARNING MODELS AND ALGORITHMS FOR BIG DATA CLASSIFICATION

2014-08-22

THIS BOOK PRESENTS MACHINE LEARNING MODELS AND ALGORITHMS TO ADDRESS BIG DATA CLASSIFICATION PROBLEMS EXISTING MACHINE LEARNING TECHNIQUES LIKE THE DECISION TREE A HIERARCHICAL APPROACH RANDOM FOREST AN ENSEMBLE HIERARCHICAL APPROACH AND DEEP LEARNING A LAYERED APPROACH ARE HIGHLY SUITABLE FOR THE SYSTEM THAT CAN HANDLE SUCH PROBLEMS THIS BOOK HELPS READERS ESPECIALLY STUDENTS AND NEWCOMERS TO THE FIELD OF BIG DATA AND MACHINE LEARNING TO GAIN A QUICK UNDERSTANDING OF THE TECHNIQUES AND TECHNOLOGIES THEREFORE THE THEORY EXAMPLES AND PROGRAMS MATLAB AND R PRESENTED IN THIS BOOK HAVE BEEN SIMPLIFIED HARDCODED REPEATED OR SPACED FOR IMPROVEMENTS THEY PROVIDE VEHICLES TO TEST AND UNDERSTAND THE COMPLICATED CONCEPTS OF VARIOUS TOPICS IN THE FIELD IT IS EXPECTED THAT THE READERS ADOPT THESE PROGRAMS TO EXPERIMENT WITH THE EXAMPLES AND THEN MODIFY OR WRITE THEIR OWN PROGRAMS TOWARD ADVANCING THEIR KNOWLEDGE FOR SOLVING MORE COMPLEX AND CHALLENGING PROBLEMS THE PRESENTATION FORMAT OF THIS BOOK FOCUSES ON SIMPLICITY READABILITY AND DEPENDABILITY SO THAT BOTH UNDERGRADUATE AND GRADUATE STUDENTS AS WELL AS NEW RESEARCHERS DEVELOPERS AND PRACTITIONERS IN THIS FIELD CAN EASILY TRUST AND GRASP THE CONCEPTS AND LEARN THEM EFFECTIVELY IT HAS BEEN WRITTEN TO REDUCE THE MATHEMATICAL COMPLEXITY AND HELP THE VAST MAJORITY OF READERS TO UNDERSTAND THE TOPICS AND GET INTERESTED IN THE FIELD THIS BOOK CONSISTS OF FOUR PARTS WITH THE TOTAL OF 14 CHAPTERS THE FIRST PART MAINLY FOCUSES ON THE TOPICS THAT ARE NEEDED TO HELP ANALYZE AND UNDERSTAND DATA AND BIG DATA THE SECOND PART COVERS THE TOPICS THAT CAN EXPLAIN THE SYSTEMS REQUIRED FOR PROCESSING BIG DATA THE THIRD PART PRESENTS THE TOPICS REQUIRED TO UNDERSTAND AND SELECT MACHINE LEARNING TECHNIQUES TO CLASSIFY BIG DATA FINALLY THE FOURTH PART CONCENTRATES ON THE TOPICS THAT EXPLAIN THE SCALING UP MACHINE LEARNING AN IMPORTANT SOLUTION FOR MODERN BIG DATA PROBLEMS

INTRODUCTION TO MACHINE LEARNING

2022-08-09

INTRODUCTION SUPERVISED LEARNING BAYESIAN DECISION THEORY PARAMETRIC METHODS MULTIVARIATE METHODS DIMENSIONALITY REDUCTION CLUSTERING NONPARAMETRIC METHODS DECISION TREES LINEAR DISCRIMINATION MULTILAYER PERCEPTRONS LOCAL MODELS KERNEL MACHINES GRAPHICAL MODELS BRIEF CONTENTS HIDDEN MARKOV MODELS BAYESIAN ESTIMATION COMBINING MULTIPLE LEARNERS REINFORCEMENT LEARNING DESIGN AND ANALYSIS OF MACHINE LEARNING EXPERIMENTS

MACHINE LEARNING AND DATA SCIENCE

2020-10-13

MACHINE LEARNING AND DATA SCIENCE WRITTEN AND EDITED BY A TEAM OF EXPERTS IN THE FIELD THIS COLLECTION OF PAPERS REFLECTS THE MOST UP TO DATE AND COMPREHENSIVE CURRENT STATE OF MACHINE LEARNING AND DATA SCIENCE FOR INDUSTRY GOVERNMENT AND ACADEMIA MACHINE LEARNING ML AND DATA SCIENCE DS ARE VERY ACTIVE TOPICS WITH AN EXTENSIVE SCOPE BOTH IN TERMS OF THEORY AND APPLICATIONS THEY HAVE BEEN ESTABLISHED AS AN IMPORTANT EMERGENT SCIENTIFIC FIELD AND PARADIGM DRIVING RESEARCH EVOLUTION IN SUCH

DISCIPLINES AS STATISTICS COMPUTING SCIENCE AND INTELLIGENCE SCIENCE AND PRACTICAL TRANSFORMATION IN SUCH DOMAINS AS SCIENCE ENGINEERING THE PUBLIC SECTOR BUSINESS SOCIAL SCIENCE AND LIFESTYLE SIMULTANEOUSLY THEIR APPLICATIONS PROVIDE IMPORTANT CHALLENGES THAT CAN OFTEN BE ADDRESSED ONLY WITH INNOVATIVE MACHINE LEARNING AND DATA SCIENCE ALGORITHMS THESE ALGORITHMS ENCOMPASS THE LARGER AREAS OF ARTIFICIAL INTELLIGENCE DATA ANALYTICS MACHINE LEARNING PATTERN RECOGNITION NATURAL LANGUAGE UNDERSTANDING AND BIG DATA MANIPULATION THEY ALSO TACKLE RELATED NEW SCIENTIFIC CHALLENGES RANGING FROM DATA CAPTURE CREATION STORAGE RETRIEVAL SHARING ANALYSIS OPTIMIZATION AND VISUALIZATION TO INTEGRATIVE ANALYSIS ACROSS HETEROGENEOUS AND INTERDEPENDENT COMPLEX RESOURCES FOR BETTER DECISION MAKING COLLABORATION AND ULTIMATELY VALUE CREATION

MACHINE LEARNING FOR BEGINNERS

2016-05-27

IF YOU HAVE EVER WONDERED WHAT DRIVES THE MANY TOOLS WE USE EVERY DAY THEN KEEP READING THE FOURTH INDUSTRIAL REVOLUTION IS LED BY ARTIFICIAL INTELLIGENCE TECHNOLOGY AND SETTING THE HUMANKIND FOR A GLOBAL SOCIAL TRANSFORMATION THE POWERFUL APPLICATIONS OF AI HAVE ALREADY TRANSFORMED OUR DAILY LIVES TOOLS SUCH AS VIRTUAL PERSONAL AND HOME ASSISTANTS LIKE SIRI IN APPLE PODS AND ALEXA IN AMAZON ECHO HAVE BECOME EVERYDAY USAGE PRODUCTS ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING ARE CLOSELY RELATED THEY HAVE BECOME AN IMPORTANT PART OF SCIENTIFIC STUDY NOT ONLY DOES IT INVOLVE THE STUDY OF STATISTICAL MODELS AND ALGORITHMS BUT ALSO THE SYSTEMS USED FOR TASK PERFORMANCE OUR AIM WITH THIS BOOK IS TO PROVIDE YOU A 360 VIEW OF THE FUNDAMENTALS AND IMPORTANCE OF MACHINE LEARNING TECHNOLOGY FOR THE BEGINNERS LEVEL YOU WILL LEARN THE FUNDAMENTALS AND CONCEPTS OF ARTIFICIAL INTELLIGENCE IN 2020 THE TECHNOLOGY BEHIND AI AND ITS RAPID GROWTH AND EVOLUTION THE ADVANTAGES AND DISADVANTAGES OF ARTIFICIAL INTELLIGENCE HOW AI HELPS BUSINESS THE IMPORTANCE OF DEEP LEARNING TODAY HOW THE FIELDS OF DATA SCIENCE AND ITS MANY APPLICATIONS HELPS YOUR BUSINESS COMPUTER SCIENCE AND ITS APPLICATIONS IN REAL WORLD BASIC TERMINOLOGY USED IN ARTIFICIAL INTELLIGENCE AS WE COVER THE BASICS OF MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE YOU WILL BE GLAD TO KNOW THAT IT CAN BE UNDERSTOOD AND PROCESSED ON THE BEGINNERS LEVEL EVEN THOUGH IT MAY SEEM TO HAVE SOME BIG WORDS WOULD YOU LIKE TO KNOW MORE GET THIS BOOK TODAY TO KNOW HOW MACHINE LEARNING IS CHANGING OUR WORLD

MACHINE LEARNING WITH R

2020-03-24

BUY NOW WILL SOON RETURN TO 25 59 FREE EBOOK FOR CUSTOMERS WHO PURCHASE THE PRINT BOOK FROM AMAZON ARE YOU THINKING OF LEARNING MORE ABOUT MACHINE LEARNING USING R IF YOU ARE LOOKING FOR A COMPLETE BEGINNERS GUIDE TO LEARN MACHINE LEARNING USING R IN JUST A FEW HOURS THIS BOOK IS FOR YOU MACHINE LEARNING IS THE PRACTICE OF TRANSFORMING DATA INTO KNOWLEDGE AND R IS THE MOST POPULAR OPEN SOURCE PROGRAMMING LANGUAGE USED FOR MACHINE LEARNING IN THIS BOOK WE WILL LEARN HOW TO USE THE PRINCIPLES OF MACHINE LEARNING AND THE R PROGRAMMING LANGUAGE TO ANSWER DAY TO DAY QUESTIONS ABOUT YOUR DATA FINALLY WE LL LEARN HOW TO MAKE PREDICTIONS WITH MACHINE LEARNING FROM AI SCIENCES PUBLISHER OUR BOOKS MAY BE THE BEST ONE FOR BEGINNERS IT S A STEP BY STEP GUIDE FOR ANY PERSON WHO WANTS TO START LEARNING ARTIFICIAL INTELLIGENCE AND DATA SCIENCE FROM SCRATCH IT WILL HELP YOU IN PREPARING A SOLID FOUNDATION AND LEARN ANY OTHER HIGH LEVEL COURSES TO GET THE MOST OUT OF THE CONCEPTS THAT WOULD BE COVERED READERS ARE ADVISED TO ADOPT HANDS ON APPROACH WHICH WOULD LEAD TO BETTER MENTAL REPRESENTATIONS SEVERAL VISUAL ILLUSTRATIONS AND EXAMPLES INSTEAD OF TOUGH MATH FORMULAS THIS BOOK CONTAINS SEVERAL GRAPHS AND IMAGES WHICH DETAIL ALL IMPORTANT R AND MACHINE LEARNING CONCEPTS AND THEIR APPLICATIONS TARGET USERS THE BOOK DESIGNED FOR A VARIETY OF TARGET AUDIENCES THE MOST SUITABLE USERS WOULD INCLUDE BEGINNERS WHO WANT TO APPROACH MACHINE LEARNING BUT ARE TOO AFRAID OF COMPLEX MATH TO START NEWBIES IN COMPUTER SCIENCE TECHNIQUES AND MACHINE LEARNING PROFESSIONALS IN MACHINE LEARNING AND SOCIAL SCIENCES PROFESSORS LECTURERS OR TUTORS WHO ARE LOOKING TO FIND BETTER WAYS TO EXPLAIN THE CONTENT TO THEIR STUDENTS IN THE SIMPLEST AND EASIEST WAY STUDENTS AND ACADEMICIANS ESPECIALLY THOSE FOCUSING ON MACHINE LEARNING WHAT S INSIDE THIS BOOK INTRODUCTION BASIC FUNCTIONS LINEAR REGRESSION MACHINE LEARNING ALGORITHMS DATA WITH R GENERATING DATA GRAPHICAL FUNCTIONS PROGRAMMING WITH R IN PRACTICE OPENING THE BLACK BOX K NEAREST NEIGHBORS NEURAL NETWORKS TREES AND FORESTS STANDARD LINEAR MODEL LOGISTIC REGRESSION SUPPORT VECTOR MACHINE USING R FREQUENTLY ASKED QUESTIONS HELP I GOT AN ERROR WHAT DID I DO WRONG USEFUL REFERENCES FREQUENTLY ASKED QUESTIONS Q IS THIS BOOK FOR ME AND DO I NEED PROGRAMMING EXPERIENCE A F YOU WANT TO SMASH MACHINE LEARNING FROM SCRATCH THIS BOOK IS FOR YOU LITTLE PROGRAMMING EXPERIENCE IS REQUIRED IF YOU ALREADY WROTE A FEW LINES OF CODE AND RECOGNIZE BASIC PROGRAMMING STATEMENTS YOU LL BE OK Q CAN I LOAN THIS BOOK TO FRIENDS A YES UNDER AMAZON S KINDLE BOOK LENDING PROGRAM YOU CAN LEND THIS BOOK TO FRIENDS AND FAMILY FOR A DURATION OF 14 DAYS Q DOES THIS BOOK INCLUDE EVERYTHING I NEED TO BECOME A MACHINE LEARNING EXPERT A UNFORTUNATELY NO THIS BOOK IS DESIGNED FOR READERS TAKING THEIR FIRST STEPS IN MACHINE LEARNING AND FURTHER LEARNING WILL BE REQUIRED BEYOND THIS BOOK TO MASTER ALL ASPECTS OF MACHINE LEARNING Q CAN I HAVE A REFUND IF THIS BOOK IS NOT FITTED FOR ME A YES AMAZON REFUND YOU IF YOU AREN T SATISFIED FOR MORE INFORMATION ABOUT THE AMAZON REFUND SERVICE PLEASE GO TO THE AMAZON HELP PLATFORM WE WILL ALSO BE HAPPY TO HELP YOU IF YOU SEND US AN EMAIL AT CONTACT AISCIENCES NET IF YOU NEED TO SEE THE QUALITY OF OUR JOB AI SCIENCES COMPANY OFFERING YOU A FREE EBOOK IN MACHINE LEARNING WITH PYTHON WRITTEN BY THE DATA SCIENTIST ALAIN KAUFMANN AT AISCIENCES LPAGES CO AI SCIENCES DATA SCIENCE WITH R

INTRODUCTION TO MACHINE LEARNING, FOURTH EDITION

2021-12-08

A SUBSTANTIALLY REVISED FOURTH EDITION OF A COMPREHENSIVE TEXTBOOK INCLUDING NEW COVERAGE OF RECENT ADVANCES IN DEEP LEARNING AND NEURAL NETWORKS THE GOAL OF MACHINE LEARNING IS TO PROGRAM COMPUTERS TO USE EXAMPLE DATA OR PAST EXPERIENCE TO SOLVE A GIVEN PROBLEM MACHINE LEARNING UNDERLIES SUCH EXCITING NEW TECHNOLOGIES AS SELF DRIVING CARS SPEECH RECOGNITION AND TRANSLATION APPLICATIONS THIS SUBSTANTIALLY REVISED FOURTH EDITION OF A COMPREHENSIVE WIDELY USED MACHINE LEARNING TEXTBOOK OFFERS NEW COVERAGE OF RECENT ADVANCES IN THE FIELD IN BOTH THEORY AND PRACTICE INCLUDING DEVELOPMENTS IN DEEP LEARNING AND NEURAL NETWORKS THE BOOK COVERS A BROAD ARRAY OF TOPICS NOT USUALLY INCLUDED IN INTRODUCTORY MACHINE LEARNING TEXTS INCLUDING SUPERVISED LEARNING BAYESIAN DECISION THEORY PARAMETRIC METHODS SEMIPARAMETRIC METHODS NONPARAMETRIC METHODS MULTIVARIATE ANALYSIS HIDDEN MARKOV MODELS REINFORCEMENT LEARNING KERNEL MACHINES GRAPHICAL MODELS BAYESIAN ESTIMATION AND STATISTICAL TESTING THE FOURTH EDITION OFFERS A NEW CHAPTER ON DEEP LEARNING THAT DISCUSSES TRAINING REGULARIZING AND STRUCTURING DEEP NEURAL NETWORKS SUCH AS CONVOLUTIONAL AND GENERATIVE ADVERSARIAL NETWORKS NEW MATERIAL IN THE CHAPTER ON REINFORCEMENT LEARNING THAT COVERS THE USE OF DEEP NETWORKS THE POLICY GRADIENT METHODS AND DEEP REINFORCEMENT LEARNING NEW MATERIAL IN THE CHAPTER ON MULTILAYER PERCEPTRONS ON AUTOENCODERS AND THE WORD2VEC NETWORK AND DISCUSSION OF A POPULAR METHOD OF DIMENSIONALITY REDUCTION T SNE NEW APPENDIXES OFFER BACKGROUND MATERIAL ON LINEAR ALGEBRA AND OPTIMIZATION END OF CHAPTER EXERCISES HELP READERS TO APPLY CONCEPTS LEARNED INTRODUCTION TO MACHINE LEARNING CAN BE USED IN COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS AND AS A REFERENCE FOR PROFESSIONALS

DATA SCIENCE AND MACHINE LEARNING: FROM DATA TO KNOWLEDGE

2020-10-01

EXTRACTING KNOWLEDGE FROM INFORMATION THROUGH DATA ANALYSIS THE DATA SCIENTIST HAS BEEN CALLED THE MOST ATTRACTIVE PROFESSION OF THE 21ST CENTURY ANALYZE THE RELATIONSHIPS BETWEEN DATA DISCOVER NEW INFORMATION AND THANKS TO MACHINE LEARNING EXPLOIT THE IMMENSE POTENTIAL HIDDEN IN IT BY BUILDING PREDICTIVE MODELS IN THIS BOOK WE ILLUSTRATE METHODS TO ANALYZE AND MANIPULATE DATA AND MACHINE LEARNING AND DEEP LEARNING ALGORITHMS TO PREDICT INFORMATION MOVING FROM THEORETICAL KNOWLEDGE TO PRACTICAL APPLICATIONS WITH STATISTICAL SOFTWARE R THROUGH EXTENSIVE PRACTICAL EXAMPLES WHAT YOU WILL LEARN MATHEMATICS AND ALGEBRA FOR MACHINE LEARNING STATISTICS AND PROBABILITY FOR DATA SCIENCE USE OF THE STATISTICAL SOFTWARE R AND R STUDIO DATA PREPARATION AND FEATURE ENGINEERING DESIGN AND VALIDATE MACHINE LEARNING ALGORITHMS REGRESSION CLASSIFICATION AND CLUSTERING ALGORITHMS MAKING PREDICTIONS BASED ON TIME SERIES THE MODELS OF NEURAL NETWORKS AND DEEP LEARNING DATA VISUALIZATION DATA STORYTELLING WHO THIS BOOK IS FOR THIS BOOK IS FOR ANYONE WHO WANTS TO LEARN HOW TO MANIPULATE AND ANALYZE DATA BY DRAWING NEW KNOWLEDGE FROM IT IF YOU ARE AN IT MANAGER OR AN ANALYST WHO WANTS TO ENTER THE WORLD OF DATA SCIENCE AND BIG DATA IF YOU ARE A DEVELOPER WHO WANTS TO KNOW THE NEW TRENDS IN THE FIELD OF ARTIFICIAL INTELLIGENCE OR YOU ARE SIMPLY CURIOUS ABOUT THIS WORLD THEN THIS BOOK IS FOR YOU CONTENTS DATA SCIENCE AND ANALYSIS MODELS BIG DATA MANAGEMENT UNIVARIATE AND MULTIVARIATE ANALYSIS PROBABILITY AND HYPOTHESIS TESTING EXPLORING AND VISUALIZING DATA DATA PREPARATION AND DATA CLEANING SUPERVISED LEARNING CLASSIFICATION AND REGRESSION UNSUPERVISED LEARNING CLUSTERING AND DIMENSIONALITY REDUCTION SEMI SUPERVISED LEARNING ASSOCIATION ALGORITHMS AND TIME SERIES ANALYSIS VALIDATION MEASURES AND ALGORITHMS OPTIMIZATION NEURAL NETWORKS AND DEEP LEARNING CONVOLUTIONAL NETWORKS FOR IMAGE RECOGNITION RECURRENT NETWORKS AND LSMT FOR SEQUENCES ENCODERS FOR FEATURE SELECTION GENERATIVE ALGORITHMS

AI AND MACHINE LEARNING FOR CODERS

2024-04-16

IF YOU'RE LOOKING TO MAKE A CAREER MOVE FROM PROGRAMMER TO AI SPECIALIST THIS IS THE IDEAL PLACE TO START BASED ON LAURENCE MORONEY'S EXTREMELY SUCCESSFUL AI COURSES THIS INTRODUCTORY BOOK PROVIDES A HANDS ON CODE FIRST APPROACH TO HELP YOU BUILD CONFIDENCE WHILE YOU LEARN KEY TOPICS YOU'LL UNDERSTAND HOW TO IMPLEMENT THE MOST COMMON SCENARIOS IN MACHINE LEARNING SUCH AS COMPUTER VISION NATURAL LANGUAGE PROCESSING NLP AND SEQUENCE MODELING FOR WEB MOBILE CLOUD AND EMBEDDED RUNTIMES MOST BOOKS ON MACHINE LEARNING BEGIN WITH A DAUNTING AMOUNT OF ADVANCED MATH THIS GUIDE IS BUILT ON PRACTICAL LESSONS THAT LET YOU WORK DIRECTLY WITH THE CODE YOU'LL LEARN HOW TO BUILD MODELS WITH TENSORFLOW USING SKILLS THAT EMPLOYERS DESIRE THE BASICS OF MACHINE LEARNING BY WORKING WITH CODE SAMPLES HOW TO IMPLEMENT COMPUTER VISION INCLUDING FEATURE DETECTION IN IMAGES HOW TO USE NLP TO TOKENIZE AND SEQUENCE WORDS AND SENTENCES METHODS FOR EMBEDDING MODELS IN ANDROID AND IOS HOW TO SERVE MODELS OVER THE WEB AND IN THE CLOUD WITH TENSORFLOW SERVING

MACHINE LEARNING Q AND AI

2019-05-20

LEARN THE ANSWERS TO 300 CUTTING EDGE QUESTIONS IN MACHINE LEARNING AND AI AND LEVEL UP YOUR EXPERTISE IN THE FIELD IF YOU'RE READY TO VENTURE BEYOND INTRODUCTORY CONCEPTS AND DIG DEEPER INTO MACHINE LEARNING DEEP LEARNING AND AI THE QUESTION AND ANSWER FORMAT OF MACHINE LEARNING Q AND AI WILL MAKE THINGS FAST AND EASY FOR YOU WITHOUT A LOT OF MUCKING ABOUT BORN OUT OF QUESTIONS OFTEN FIELD BY AUTHOR SEBASTIAN RASCHKA THE DIRECT NO NONSENSE APPROACH OF THIS BOOK MAKES ADVANCED TOPICS MORE ACCESSIBLE AND GENUINELY ENGAGING EACH BRIEF SELF-CONTAINED CHAPTER JOURNEYS THROUGH A FUNDAMENTAL QUESTION IN AI UNRAVELING IT WITH CLEAR EXPLANATIONS DIAGRAMS AND HANDS ON EXERCISES WHAT'S INSIDE FOCUSED CHAPTERS KEY QUESTIONS IN AI ARE ANSWERED CONCISELY AND COMPLEX IDEAS ARE BROKEN DOWN INTO EASILY DIGESTIBLE PARTS WIDE RANGE OF TOPICS RASCHKA COVERS TOPICS RANGING FROM NEURAL NETWORK ARCHITECTURES AND MODEL EVALUATION TO COMPUTER VISION AND NATURAL LANGUAGE PROCESSING PRACTICAL APPLICATIONS LEARN TECHNIQUES FOR ENHANCING MODEL PERFORMANCE FINE TUNING LARGE MODELS AND MORE YOU'LL ALSO EXPLORE HOW TO MANAGE THE VARIOUS SOURCES OF RANDOMNESS IN NEURAL NETWORK TRAINING DIFFERENTIATE BETWEEN ENCODER AND DECODER ARCHITECTURES IN LARGE LANGUAGE MODELS REDUCE OVERFITTING THROUGH DATA AND MODEL MODIFICATIONS CONSTRUCT CONFIDENCE INTERVALS FOR CLASSIFIERS AND OPTIMIZE MODELS WITH LIMITED LABELED DATA CHOOSE BETWEEN DIFFERENT MULTI-GPU TRAINING PARADIGMS AND DIFFERENT TYPES OF GENERATIVE AI MODELS UNDERSTAND PERFORMANCE METRICS FOR NATURAL LANGUAGE PROCESSING MAKE SENSE OF THE INDUCTIVE BIASES IN VISION TRANSFORMERS IF YOU'VE BEEN ON THE HUNT FOR THE PERFECT RESOURCE TO ELEVATE YOUR UNDERSTANDING OF MACHINE LEARNING MACHINE LEARNING Q AND AI WILL MAKE IT EASY FOR YOU TO PAINLESSLY ADVANCE YOUR KNOWLEDGE BEYOND THE BASICS

ADVANCED MACHINE LEARNING WITH R

2018-03-28

MASTER MACHINE LEARNING TECHNIQUES WITH REAL-WORLD PROJECTS THAT INTERFACE TENSORFLOW WITH R H2O MXNET AND OTHER LANGUAGES KEY FEATURES GAIN EXPERTISE IN MACHINE LEARNING DEEP LEARNING AND OTHER TECHNIQUES BUILD INTELLIGENT END-TO-END PROJECTS FOR FINANCE SOCIAL MEDIA AND A VARIETY OF DOMAINS IMPLEMENT MULTI-CLASS CLASSIFICATION REGRESSION AND CLUSTERING BOOK DESCRIPTION R IS ONE OF THE MOST POPULAR LANGUAGES WHEN IT COMES TO EXPLORING THE MATHEMATICAL SIDE OF MACHINE LEARNING AND EASILY PERFORMING COMPUTATIONAL STATISTICS THIS LEARNING PATH SHOWS YOU HOW TO LEVERAGE THE R ECOSYSTEM TO BUILD EFFICIENT MACHINE LEARNING APPLICATIONS THAT CARRY OUT INTELLIGENT TASKS WITHIN YOUR ORGANIZATION YOU'LL TACKLE REALISTIC PROJECTS SUCH AS BUILDING POWERFUL MACHINE LEARNING MODELS WITH ENSEMBLES TO PREDICT EMPLOYEE ATTRITION YOU'LL EXPLORE DIFFERENT CLUSTERING TECHNIQUES TO SEGMENT CUSTOMERS USING WHOLESALE DATA AND USE TENSORFLOW AND KERAS R FOR PERFORMING ADVANCED COMPUTATIONS YOU'LL ALSO BE INTRODUCED TO REINFORCEMENT LEARNING ALONG WITH ITS VARIOUS USE CASES AND MODELS ADDITIONALLY IT SHOWS YOU HOW SOME OF THESE BLACK-BOX MODELS CAN BE DIAGNOSED AND UNDERSTOOD BY THE END OF THIS LEARNING PATH YOU'LL BE EQUIPPED WITH THE SKILLS YOU NEED TO DEPLOY MACHINE LEARNING TECHNIQUES IN YOUR OWN PROJECTS THIS LEARNING PATH INCLUDES CONTENT FROM THE FOLLOWING PACKT PRODUCTS R MACHINE LEARNING PROJECTS BY DR SUNIL KUMAR CHINNAMGARIMASTERING MACHINE LEARNING WITH R THIRD EDITION BY CORY LESMEISTER WHAT YOU WILL LEARN DEVELOP A JOKE RECOMMENDATION ENGINE TO RECOMMEND JOKES THAT MATCH USERS' TASTES BUILD AUTOENCODERS FOR CREDIT CARD FRAUD DETECTION WORK WITH IMAGE RECOGNITION AND CONVOLUTIONAL

NEURAL NETWORKSMAKE PREDICTIONS FOR CASINO SLOT MACHINE USING REINFORCEMENT LEARNINGIMPLEMENT NLP TECHNIQUES FOR SENTIMENT ANALYSIS AND CUSTOMER SEGMENTATIONPRODUCE SIMPLE AND EFFECTIVE DATA VISUALIZATIONS FOR IMPROVED INSIGHTSUSE NLP TO EXTRACT INSIGHTS FOR TEXTIMPLEMENT TREE BASED CLASSIFIERS INCLUDING RANDOM FOREST AND BOOSTED TREEWHO THIS BOOK IS FOR IF YOU ARE A DATA ANALYST DATA SCIENTIST OR MACHINE LEARNING DEVELOPER THIS IS AN IDEAL LEARNING PATH FOR YOU EACH PROJECT WILL HELP YOU TEST YOUR SKILLS IN IMPLEMENTING MACHINE LEARNING ALGORITHMS AND TECHNIQUES A BASIC UNDERSTANDING OF MACHINE LEARNING AND WORKING KNOWLEDGE OF R PROGRAMMING IS NECESSARY TO GET THE MOST OUT OF THIS LEARNING PATH

TensorFlow Deep Learning Projects

2012-08-17

LEVERAGE THE POWER OF TENSORFLOW TO DESIGN DEEP LEARNING SYSTEMS FOR A VARIETY OF REAL WORLD SCENARIOS KEY FEATURES BUILD EFFICIENT DEEP LEARNING PIPELINES USING THE POPULAR TENSORFLOW FRAMEWORK TRAIN NEURAL NETWORKS SUCH AS CONVNETS GENERATIVE MODELS AND LSTMS INCLUDES PROJECTS RELATED TO COMPUTER VISION STOCK PREDICTION CHATBOTS AND MORE BOOK DESCRIPTION TENSORFLOW IS ONE OF THE MOST POPULAR FRAMEWORKS USED FOR MACHINE LEARNING AND MORE RECENTLY DEEP LEARNING IT PROVIDES A FAST AND EFFICIENT FRAMEWORK FOR TRAINING DIFFERENT KINDS OF DEEP LEARNING MODELS WITH VERY HIGH ACCURACY THIS BOOK IS YOUR GUIDE TO MASTER DEEP LEARNING WITH TENSORFLOW WITH THE HELP OF 10 REAL WORLD PROJECTS TENSORFLOW DEEP LEARNING PROJECTS STARTS WITH SETTING UP THE RIGHT TENSORFLOW ENVIRONMENT FOR DEEP LEARNING LEARN TO TRAIN DIFFERENT TYPES OF DEEP LEARNING MODELS USING TENSORFLOW INCLUDING CONVOLUTIONAL NEURAL NETWORKS RECURRENT NEURAL NETWORKS LSTMS AND GENERATIVE ADVERSARIAL NETWORKS WHILE DOING SO YOU WILL BUILD END TO END DEEP LEARNING SOLUTIONS TO TACKLE DIFFERENT REAL WORLD PROBLEMS IN IMAGE PROCESSING RECOMMENDATION SYSTEMS STOCK PREDICTION AND BUILDING CHATBOTS TO NAME A FEW YOU WILL ALSO DEVELOP SYSTEMS THAT PERFORM MACHINE TRANSLATION AND USE REINFORCEMENT LEARNING TECHNIQUES TO PLAY GAMES BY THE END OF THIS BOOK YOU WILL HAVE MASTERED ALL THE CONCEPTS OF DEEP LEARNING AND THEIR IMPLEMENTATION WITH TENSORFLOW AND WILL BE ABLE TO BUILD AND TRAIN YOUR OWN DEEP LEARNING MODELS WITH TENSORFLOW CONFIDENTLY WHAT YOU WILL LEARN SET UP THE TENSORFLOW ENVIRONMENT FOR DEEP LEARNING CONSTRUCT YOUR OWN CONVNETS FOR EFFECTIVE IMAGE PROCESSING USE LSTMS FOR IMAGE CAPTION GENERATION FORECAST STOCK PREDICTION ACCURATELY WITH AN LSTM ARCHITECTURE LEARN WHAT SEMANTIC MATCHING IS BY DETECTING DUPLICATE QUORA QUESTIONS SET UP AN AWS INSTANCE WITH TENSORFLOW TO TRAIN GANS TRAIN AND SET UP A CHATBOT TO UNDERSTAND AND INTERPRET HUMAN INPUT BUILD AN AI CAPABLE OF PLAYING A VIDEO GAME BY ITSELF AND WIN IT WHO THIS BOOK IS FOR THIS BOOK IS FOR DATA SCIENTISTS MACHINE LEARNING DEVELOPERS AS WELL AS DEEP LEARNING PRACTITIONERS WHO WANT TO BUILD INTERESTING DEEP LEARNING PROJECTS THAT LEVERAGE THE POWER OF TENSORFLOW SOME UNDERSTANDING OF MACHINE LEARNING AND DEEP LEARNING AND FAMILIARITY WITH THE TENSORFLOW FRAMEWORK IS ALL YOU NEED TO GET STARTED WITH THIS BOOK

Foundations of Machine Learning

2021-12-28

FUNDAMENTAL TOPICS IN MACHINE LEARNING ARE PRESENTED ALONG WITH THEORETICAL AND CONCEPTUAL TOOLS FOR THE DISCUSSION AND PROOF OF ALGORITHMS THIS GRADUATE LEVEL TEXTBOOK INTRODUCES FUNDAMENTAL CONCEPTS AND METHODS IN MACHINE LEARNING IT DESCRIBES SEVERAL IMPORTANT MODERN ALGORITHMS PROVIDES THE THEORETICAL UNDERPINNINGS OF THESE ALGORITHMS AND ILLUSTRATES KEY ASPECTS FOR THEIR APPLICATION THE AUTHORS AIM TO PRESENT NOVEL THEORETICAL TOOLS AND CONCEPTS WHILE GIVING CONCISE PROOFS EVEN FOR RELATIVELY ADVANCED TOPICS FOUNDATIONS OF MACHINE LEARNING FILLS THE NEED FOR A GENERAL TEXTBOOK THAT ALSO OFFERS THEORETICAL DETAILS AND AN EMPHASIS ON PROOFS CERTAIN TOPICS THAT ARE OFTEN TREATED WITH INSUFFICIENT ATTENTION ARE DISCUSSED IN MORE DETAIL HERE FOR EXAMPLE ENTIRE CHAPTERS ARE DEVOTED TO REGRESSION MULTI CLASS CLASSIFICATION AND RANKING THE FIRST THREE CHAPTERS LAY THE THEORETICAL FOUNDATION FOR WHAT FOLLOWS BUT EACH REMAINING CHAPTER IS MOSTLY SELF CONTAINED THE APPENDIX OFFERS A CONCISE PROBABILITY REVIEW A SHORT INTRODUCTION TO CONVEX OPTIMIZATION TOOLS FOR CONCENTRATION BOUNDS AND SEVERAL BASIC PROPERTIES OF MATRICES AND NORMS USED IN THE BOOK THE BOOK IS INTENDED FOR GRADUATE STUDENTS AND RESEARCHERS IN MACHINE LEARNING STATISTICS AND RELATED AREAS IT CAN BE USED EITHER AS A TEXTBOOK OR AS A REFERENCE TEXT FOR A RESEARCH SEMINAR

Grokking Machine Learning

2019

DISCOVER VALUABLE MACHINE LEARNING TECHNIQUES YOU CAN UNDERSTAND AND APPLY USING JUST HIGH SCHOOL MATH IN GROKING MACHINE LEARNING YOU WILL LEARN SUPERVISED ALGORITHMS FOR CLASSIFYING AND SPLITTING DATA METHODS FOR CLEANING AND SIMPLIFYING DATA MACHINE LEARNING PACKAGES AND TOOLS NEURAL NETWORKS AND ENSEMBLE METHODS FOR COMPLEX DATASETS GROKING MACHINE LEARNING TEACHES YOU HOW TO APPLY ML TO YOUR PROJECTS USING ONLY STANDARD PYTHON CODE AND HIGH SCHOOL LEVEL MATH NO SPECIALIST KNOWLEDGE IS REQUIRED TO TACKLE THE HANDS ON EXERCISES USING PYTHON AND READILY AVAILABLE MACHINE LEARNING TOOLS PACKED WITH EASY TO FOLLOW PYTHON BASED EXERCISES AND MINI PROJECTS THIS BOOK SETS YOU ON THE PATH TO BECOMING A MACHINE LEARNING EXPERT PURCHASE OF THE PRINT BOOK INCLUDES A FREE EBOOK IN PDF KINDLE AND EPUB FORMATS FROM MANNING PUBLICATIONS ABOUT THE TECHNOLOGY DISCOVER POWERFUL MACHINE LEARNING TECHNIQUES YOU CAN UNDERSTAND AND APPLY USING ONLY HIGH SCHOOL MATH PUT SIMPLY MACHINE LEARNING IS A SET OF TECHNIQUES FOR DATA ANALYSIS BASED ON ALGORITHMS THAT DELIVER BETTER RESULTS AS YOU GIVE THEM MORE DATA ML POWERS MANY CUTTING EDGE TECHNOLOGIES SUCH AS RECOMMENDATION SYSTEMS FACIAL RECOGNITION SOFTWARE SMART SPEAKERS AND EVEN SELF DRIVING CARS THIS UNIQUE BOOK INTRODUCES THE CORE CONCEPTS OF MACHINE LEARNING USING RELATABLE EXAMPLES ENGAGING EXERCISES AND CRISP ILLUSTRATIONS ABOUT THE BOOK GROKING MACHINE LEARNING PRESENTS MACHINE LEARNING ALGORITHMS AND TECHNIQUES IN A WAY THAT ANYONE CAN UNDERSTAND THIS BOOK SKIPS THE CONFUSED ACADEMIC JARGON AND OFFERS CLEAR EXPLANATIONS THAT REQUIRE ONLY BASIC ALGEBRA AS YOU GO YOU LL BUILD INTERESTING PROJECTS WITH PYTHON INCLUDING MODELS FOR SPAM DETECTION AND IMAGE RECOGNITION YOU LL ALSO PICK UP PRACTICAL SKILLS FOR CLEANING AND PREPARING DATA WHAT S INSIDE SUPERVISED ALGORITHMS FOR CLASSIFYING AND SPLITTING DATA METHODS FOR CLEANING AND SIMPLIFYING DATA MACHINE LEARNING PACKAGES AND TOOLS NEURAL NETWORKS AND ENSEMBLE METHODS FOR COMPLEX DATASETS ABOUT THE READER FOR READERS WHO KNOW BASIC PYTHON NO MACHINE LEARNING KNOWLEDGE NECESSARY ABOUT THE AUTHOR LUIS G SERRANO IS A RESEARCH SCIENTIST IN QUANTUM ARTIFICIAL INTELLIGENCE PREVIOUSLY HE WAS A MACHINE LEARNING ENGINEER AT GOOGLE AND LEAD ARTIFICIAL INTELLIGENCE EDUCATOR AT APPLE TABLE OF CONTENTS 1 WHAT IS MACHINE LEARNING IT IS COMMON SENSE EXCEPT DONE BY A COMPUTER 2 TYPES OF MACHINE LEARNING 3 DRAWING A LINE CLOSE TO OUR POINTS LINEAR REGRESSION 4 OPTIMIZING THE TRAINING PROCESS UNDERFITTING OVERFITTING TESTING AND REGULARIZATION 5 USING LINES TO SPLIT OUR POINTS THE PERCEPTRON ALGORITHM 6 A CONTINUOUS APPROACH TO SPLITTING POINTS LOGISTIC CLASSIFIERS 7 HOW DO YOU MEASURE CLASSIFICATION MODELS ACCURACY AND ITS FRIENDS 8 USING PROBABILITY TO ITS MAXIMUM THE NAIVE BAYES MODEL 9 SPLITTING DATA BY ASKING QUESTIONS DECISION TREES 10 COMBINING BUILDING BLOCKS TO GAIN MORE POWER NEURAL NETWORKS 11 FINDING BOUNDARIES WITH STYLE SUPPORT VECTOR MACHINES AND THE KERNEL METHOD 12 COMBINING MODELS TO MAXIMIZE RESULTS ENSEMBLE LEARNING 13 PUTTING IT ALL IN PRACTICE A REAL LIFE EXAMPLE OF DATA ENGINEERING AND MACHINE LEARNING

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING FUNDAMENTALS

2019-12-03

MACHINE LEARNING AND NEURAL NETWORKS ARE FAST BECOMING PILLARS ON WHICH YOU CAN BUILD INTELLIGENT APPLICATIONS THE COURSE WILL BEGIN BY INTRODUCING YOU TO PYTHON AND DISCUSSING USING AI SEARCH ALGORITHMS YOU WILL LEARN MATH HEAVY TOPICS SUCH AS REGRESSION AND CLASSIFICATION ILLUSTRATED BY PYTHON EXAMPLES YOU WILL THEN PROGRESS ON TO ADVANCED AI TECHNIQUES AND CONCEPTS AND WORK ON REAL LIFE DATA SETS TO FORM DECISION TREES AND CLUSTERS YOU WILL BE INTRODUCED TO NEURAL NETWORKS WHICH IS A POWERFUL TOOL BENEFITING FROM MOORE S LAW APPLIED ON 21ST CENTURY COMPUTING POWER BY THE END OF THIS COURSE YOU WILL FEEL CONFIDENT AND LOOK FORWARD TO BUILDING YOUR OWN AI APPLICATIONS WITH YOUR NEWLY ACQUIRED SKILLS RESOURCE DESCRIPTION PAGE

MACHINE LEARNING FOR BEGINNERS

2022-01-07

ARE YOU FASCINATED ABOUT MACHINE LEARNING AND AI AND YOU DON T KNOW WHERE TO START HAVE YOU EVER HEARD PEOPLE TALKING ABOUT MACHINE LEARNING BUT YOU ONLY HAVE A VAGUE IDEA OF THE ACTUAL MEANING DO YOU WANT TO UNDERSTAND HOW MACHINE LEARNING COULD SIMPLIFY YOUR DAILY LIFE IMAGINE A WORLD WHERE COMPUTING SYSTEMS UNDERSTAND PEOPLE AND THE WORLD AROUND US THEM TO A POINT WHERE THEY CAN NOTICE PATTERNS COLLECT DATA INTERPRET IT AND GIVE RECOMMENDATIONS TO SOLVE REAL WORLD PROBLEMS WITH HIGH LEVEL OF PRECISION IT SOUNDS LIKE SCIENCE FICTION BUT IT IS HAPPENING IN HEALTHCARE AGRICULTURE CYBER SECURITY FACIAL RECOGNITION TARGETING AND RETARGETING CUSTOMERS IN ONLINE ADVERTISING RECOMMENDING SPECIFIC PRODUCTS STORIES VIDEOS TEXT ETC SELF DRIVING CARS REAL TIME PRICING PREDICTING HUMAN BEHAVIOR AND MUCH MORE NOW IMAGINE YOU BEING ONE OF THE PEOPLE BEHIND THE CODE THE PEOPLE WHO GET THESE ADVANCED SYSTEMS TO WORK THE WAY THEY DO WOULD IT BE A DREAM COME TRUE FOR YOU BY VIRTUE THAT YOU ARE READING THIS IT IS CLEAR THAT YOU HAVE SOME SPECIAL LIKING FOR THIS ADVANCED TECH AND WOULD WANT TO LEARN HOW YOU CAN BE ONE OF THE PEOPLE BEHIND THE CODE EVEN IF NOT YOU PROBABLY WANT TO BE ABLE TO UNDERSTAND THE INNER WORKINGS OF THESE SYSTEMS THE CONCEPT MAY SOUND EXTREMELY OUT THERE AND ADVANCED BUT IT WON T BE IF YOU FOLLOW THIS GUIDE WHICH TAKES AN EASY TO FOLLOW BEGINNER FRIENDLY LANGUAGE TO HELP YOU TO UNDERSTAND THE INS AND OUTS OF MACHINE LEARNING HERE IS A SUMMARY OF WHAT THIS BOOK WILL TEACH YOU THE BASICS OF MACHINE LEARNING INCLUDING WHAT IT IS HOW MACHINE LEARNING HAS EVOLVED OVER THE YEARS THE APPLICATION OF MACHINE LEARNING IN TODAY S WORLD AND THE FUTURE OF MACHINE LEARNING HOW MACHINE LEARNING IS BENEFICIAL IN TODAY S WORLD THE DIFFERENT APPROACHES TO MACHINE LEARNING INCLUDING UNSUPERVISED SUPERVISED REINFORCEMENT LEARNING METHOD SEMI SUPERVISED MACHINE LEARNING AND MANY OTHERS THE CONCEPT OF BIG DATA ANALYSIS INCLUDING WHAT IS BIG DATA WHY BIG DATA IS IMPORTANT THE APPLICATION OF BIG DATA IN TODAY S WORLD AS WELL AS THE DIFFERENT DATA ANALYSIS TOOLS THAT YOU CAN USE THE LINK BETWEEN BIG DATA AND MACHINE LEARNING THE DIFFERENT MACHINE LEARNING ALGORITHMS INCLUDING WHAT MACHINE LEARNING ALGORITHMS ARE AND HOW AND WHEN THE DIFFERENT LEARNING ALGORITHMS ARE USED THE CONCEPT OF ARTIFICIAL NEURAL NETWORKS INCLUDING HOW THEY WORK WHEN TO USE NEURAL NETWORKS AND MORE HOW DECISION TREES ARE USED IN MACHINE LEARNING INCLUDING WHAT DECISION TREES ARE IN RESPECT TO MACHINE LEARNING HOW THEY WORK HOW THE DECISION TREE IS READ THE DIFFERENT NODES IN DECISION TREES AND WHEN TO USE THEM THE INS AND OUTS OF LINEAR AND LOGISTIC REGRESSION IN MACHINE LEARNING INCLUDING WHAT LINEAR REGRESSION IS DIFFERENT TYPES OF REGRESSION HOW LINEAR REGRESSION WORKS HOW LINEAR REGRESSION IS USED AND MUCH MORE AND MUCH MORE EVEN IF THIS IS YOUR FIRST ENCOUNTER WITH THE CONCEPT OF MACHINE LEARNING THIS BOOK WILL UNCOVER EVERYTHING YOU NEED TO KNOW TO MASTER MACHINE LEARNING AND POSSIBLY GET STARTED IN THIS FIELD OF ADVANCED COMPUTING KNOWING VERY WELL WHAT YOU ARE VENTURING INTO AND THE GOOD THING IS THAT THE BOOK TAKES A BEGINNER FRIENDLY APPROACH TO HELP YOU TO APPLY WHAT YOU LEARN RIGHT AWAY WOULD YOU LIKE TO KNOW MORE CLICK BUY NOW WITH 1 CLICK OR BUY NOW TO GET STARTED

BIOMEDICAL AND BUSINESS APPLICATIONS USING ARTIFICIAL NEURAL NETWORKS AND MACHINE LEARNING

2017-10-26

DURING THESE UNCERTAIN AND TURBULENT TIMES INTELLIGENT TECHNOLOGIES INCLUDING ARTIFICIAL NEURAL NETWORKS ANN AND MACHINE LEARNING ML HAVE PLAYED AN INCREDIBLE ROLE IN BEING ABLE TO PREDICT ANALYZE AND NAVIGATE UNPRECEDENTED CIRCUMSTANCES ACROSS A NUMBER OF INDUSTRIES RANGING FROM HEALTHCARE TO HOSPITALITY MULTI FACTOR PREDICTION IN PARTICULAR HAS BEEN ESPECIALLY HELPFUL IN DEALING WITH THE MOST CURRENT PRESSING ISSUES SUCH AS COVID 19 PREDICTION PNEUMONIA DETECTION CARDIOVASCULAR DIAGNOSIS AND DISEASE MANAGEMENT AUTOMOBILE ACCIDENT PREDICTION AND VACATION RENTAL LISTING ANALYSIS TO DATE THERE HAS NOT BEEN MUCH RESEARCH CONTENT READILY AVAILABLE IN THESE AREAS ESPECIALLY CONTENT WRITTEN EXTENSIVELY FROM A USER PERSPECTIVE BIOMEDICAL AND BUSINESS APPLICATIONS USING ARTIFICIAL NEURAL NETWORKS AND MACHINE LEARNING IS DESIGNED TO COVER A BRIEF AND FOCUSED RANGE OF ESSENTIAL TOPICS IN THE FIELD WITH PERSPECTIVES MODELS AND FIRST HAND EXPERIENCES SHARED BY PROMINENT RESEARCHERS DISCUSSING APPLICATIONS OF ARTIFICIAL NEURAL NETWORKS ANN AND MACHINE LEARNING ML FOR BIOMEDICAL AND BUSINESS APPLICATIONS AND A LISTING OF CURRENT OPEN SOURCE SOFTWARE FOR NEURAL NETWORKS MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE IT ALSO PRESENTS SUMMARIES OF CURRENTLY AVAILABLE OPEN SOURCE SOFTWARE THAT UTILIZE NEURAL NETWORKS AND MACHINE LEARNING THE BOOK IS IDEAL FOR PROFESSIONALS RESEARCHERS STUDENTS AND PRACTITIONERS WHO WANT TO MORE FULLY UNDERSTAND IN A BRIEF AND CONCISE FORMAT THE REALM AND TECHNOLOGIES OF ARTIFICIAL NEURAL NETWORKS ANN AND MACHINE LEARNING ML AND HOW THEY HAVE BEEN USED FOR PREDICTION OF MULTI DISCIPLINARY RESEARCH PROBLEMS IN A MULTITUDE OF DISCIPLINES

MACHINE LEARNING FOR DEVELOPERS

2017-10-05

YOUR ONE STOP GUIDE TO BECOMING A MACHINE LEARNING EXPERT ABOUT THIS BOOK LEARN TO DEVELOP EFFICIENT AND INTELLIGENT APPLICATIONS BY LEVERAGING THE POWER OF MACHINE LEARNING A HIGHLY PRACTICAL GUIDE EXPLAINING THE CONCEPTS OF PROBLEM SOLVING IN THE EASIEST POSSIBLE MANNER IMPLEMENT MACHINE LEARNING IN THE MOST PRACTICAL WAY WHO THIS BOOK IS FOR THIS BOOK WILL APPEAL TO ANY DEVELOPER WHO WANTS TO KNOW WHAT MACHINE LEARNING IS AND IS KEEN TO USE MACHINE LEARNING TO MAKE THEIR DAY TO DAY APPS FAST HIGH PERFORMING AND ACCURATE ANY DEVELOPER WHO WANTS TO ENTER THE FIELD OF MACHINE LEARNING CAN EFFECTIVELY USE THIS BOOK AS AN ENTRY POINT WHAT YOU WILL LEARN LEARN THE MATH AND MECHANICS OF MACHINE LEARNING VIA A DEVELOPER FRIENDLY APPROACH GET TO GRIPS WITH WIDELY USED MACHINE LEARNING ALGORITHMS TECHNIQUES AND HOW TO USE THEM TO SOLVE REAL PROBLEMS GET A FEEL FOR ADVANCED CONCEPTS USING POPULAR PROGRAMMING FRAMEWORKS PREPARE YOURSELF AND OTHER DEVELOPERS FOR WORKING

IN THE NEW UBIQUITOUS FIELD OF MACHINE LEARNING GET AN OVERVIEW OF THE MOST WELL KNOWN AND POWERFUL TOOLS TO SOLVE COMPUTING PROBLEMS USING MACHINE LEARNING GET AN INTUITIVE AND DOWN TO EARTH INTRODUCTION TO CURRENT MACHINE LEARNING AREAS AND APPLY THESE CONCEPTS ON INTERESTING AND CUTTING EDGE PROBLEMS IN DETAIL MOST OF US HAVE HEARD ABOUT THE TERM MACHINE LEARNING BUT SURPRISINGLY THE QUESTION FREQUENTLY ASKED BY DEVELOPERS ACROSS THE GLOBE IS HOW DO I GET STARTED IN MACHINE LEARNING ONE REASON COULD BE ATTRIBUTED TO THE VASTNESS OF THE SUBJECT AREA BECAUSE PEOPLE OFTEN GET OVERWHELMED BY THE ABSTRACTNESS OF ML AND TERMS SUCH AS REGRESSION SUPERVISED LEARNING PROBABILITY DENSITY FUNCTION AND SO ON THIS BOOK IS A SYSTEMATIC GUIDE TEACHING YOU HOW TO IMPLEMENT VARIOUS MACHINE LEARNING TECHNIQUES AND THEIR DAY TO DAY APPLICATION AND DEVELOPMENT YOU WILL START WITH THE VERY BASICS OF DATA AND MATHEMATICAL MODELS IN EASY TO FOLLOW LANGUAGE THAT YOU ARE FAMILIAR WITH YOU WILL FEEL AT HOME WHILE IMPLEMENTING THE EXAMPLES THE BOOK WILL INTRODUCE YOU TO VARIOUS LIBRARIES AND FRAMEWORKS USED IN THE WORLD OF MACHINE LEARNING AND THEN WITHOUT WASTING ANY TIME YOU WILL GET TO THE POINT AND IMPLEMENT REGRESSION CLUSTERING CLASSIFICATION NEURAL NETWORKS AND MORE WITH FUN EXAMPLES AS YOU GET TO GRIPS WITH THE TECHNIQUES YOU LL LEARN TO IMPLEMENT THOSE CONCEPTS TO SOLVE REAL WORLD SCENARIOS FOR ML APPLICATIONS SUCH AS IMAGE ANALYSIS NATURAL LANGUAGE PROCESSING AND ANOMALY DETECTIONS OF TIME SERIES DATA BY THE END OF THE BOOK YOU WILL HAVE LEARNED VARIOUS ML TECHNIQUES TO DEVELOP MORE EFFICIENT AND INTELLIGENT APPLICATIONS STYLE AND APPROACH THIS BOOK GIVES YOU A GLIMPSE OF MACHINE LEARNING MODELS AND THE APPLICATION OF MODELS AT SCALE USING CLUSTERING CLASSIFICATION REGRESSION AND REINFORCEMENT LEARNING WITH FUN EXAMPLES HANDS ON EXAMPLES WILL BE PRESENTED TO UNDERSTAND THE POWER OF PROBLEM SOLVING WITH MACHINE LEARNING AND ADVANCED ARCHITECTURES SOFTWARE INSTALLATION AND CONFIGURATION

MACHINE LEARNING: END-TO-END GUIDE FOR JAVA DEVELOPERS

2016-11-07

DEVELOP IMPLEMENT AND TUNEUP YOUR MACHINE LEARNING APPLICATIONS USING THE POWER OF JAVA PROGRAMMING ABOUT THIS BOOK DETAILED COVERAGE ON KEY MACHINE LEARNING TOPICS WITH AN EMPHASIS ON BOTH THEORETICAL AND PRACTICAL ASPECTS ADDRESS PREDICTIVE MODELING PROBLEMS USING THE MOST POPULAR MACHINE LEARNING JAVA LIBRARIES A COMPREHENSIVE COURSE COVERING A WIDE SPECTRUM OF TOPICS SUCH AS MACHINE LEARNING AND NATURAL LANGUAGE THROUGH PRACTICAL USE CASES WHO THIS BOOK IS FOR THIS COURSE IS THE RIGHT RESOURCE FOR ANYONE WITH SOME KNOWLEDGE OF JAVA PROGRAMMING WHO WANTS TO GET STARTED WITH DATA SCIENCE AND MACHINE LEARNING AS QUICKLY AS POSSIBLE IF YOU WANT TO GAIN MEANINGFUL INSIGHTS FROM BIG DATA AND DEVELOP INTELLIGENT APPLICATIONS USING JAVA THIS COURSE IS ALSO A MUST HAVE WHAT YOU WILL LEARN UNDERSTAND KEY DATA ANALYSIS TECHNIQUES CENTERED AROUND MACHINE LEARNING IMPLEMENT JAVA APIS AND VARIOUS TECHNIQUES SUCH AS CLASSIFICATION CLUSTERING ANOMALY DETECTION AND MORE MASTER KEY JAVA MACHINE LEARNING LIBRARIES THEIR FUNCTIONALITY AND VARIOUS KINDS OF PROBLEMS THAT CAN BE ADDRESSED USING EACH OF THEM APPLY MACHINE LEARNING TO REAL WORLD DATA FOR FRAUD DETECTION RECOMMENDATION ENGINES TEXT CLASSIFICATION AND HUMAN ACTIVITY RECOGNITION EXPERIMENT WITH SEMI SUPERVISED LEARNING AND STREAM BASED DATA MINING BUILDING HIGH PERFORMING AND REAL TIME PREDICTIVE MODELS DEVELOP INTELLIGENT SYSTEMS CENTERED AROUND VARIOUS DOMAINS SUCH AS SECURITY INTERNET OF THINGS SOCIAL NETWORKING AND MORE IN DETAIL MACHINE LEARNING IS ONE OF THE CORE AREA OF ARTIFICIAL INTELLIGENCE WHERE COMPUTERS ARE TRAINED TO SELF LEARN GROW CHANGE AND DEVELOP ON THEIR OWN WITHOUT BEING EXPLICITLY PROGRAMMED IN THIS COURSE WE COVER HOW JAVA IS EMPLOYED TO BUILD POWERFUL MACHINE LEARNING MODELS TO ADDRESS THE PROBLEMS BEING FACED IN THE WORLD OF DATA SCIENCE THE COURSE DEMONSTRATES COMPLEX DATA EXTRACTION AND STATISTICAL ANALYSIS TECHNIQUES SUPPORTED BY JAVA APPLYING VARIOUS MACHINE LEARNING METHODS EXPLORING MACHINE LEARNING SUB DOMAINS AND EXPLORING REAL WORLD USE CASES SUCH AS RECOMMENDATION SYSTEMS FRAUD DETECTION NATURAL LANGUAGE PROCESSING AND MORE USING JAVA PROGRAMMING THE COURSE BEGINS WITH AN INTRODUCTION TO DATA SCIENCE AND BASIC DATA SCIENCE TASKS SUCH AS DATA COLLECTION DATA CLEANING DATA ANALYSIS AND DATA VISUALIZATION THE NEXT SECTION HAS A DETAILED OVERVIEW OF STATISTICAL TECHNIQUES COVERING MACHINE LEARNING NEURAL NETWORKS AND DEEP LEARNING THE NEXT COUPLE OF SECTIONS COVER APPLYING MACHINE LEARNING METHODS USING JAVA TO A VARIETY OF CHORES INCLUDING CLASSIFYING PREDICTING FORECASTING MARKET BASKET ANALYSIS CLUSTERING STREAM LEARNING ACTIVE LEARNING SEMI SUPERVISED LEARNING PROBABILISTIC GRAPH MODELING TEXT MINING AND DEEP LEARNING THE LAST SECTION HIGHLIGHTS REAL WORLD TEST CASES SUCH AS PERFORMING ACTIVITY RECOGNITION DEVELOPING IMAGE RECOGNITION TEXT CLASSIFICATION AND ANOMALY DETECTION THE COURSE INCLUDES PREMIUM CONTENT FROM THREE OF OUR MOST POPULAR BOOKS JAVA FOR DATA SCIENCE MACHINE LEARNING IN JAVA MASTERING JAVA MACHINE LEARNING ON COMPLETION OF THIS COURSE YOU WILL UNDERSTAND VARIOUS MACHINE LEARNING TECHNIQUES DIFFERENT MACHINE LEARNING JAVA ALGORITHMS YOU CAN USE TO GAIN DATA INSIGHTS BUILDING DATA MODELS TO ANALYZE LARGER COMPLEX DATA SETS AND INCUBATING APPLICATIONS USING JAVA AND MACHINE LEARNING ALGORITHMS IN THE FIELD OF ARTIFICIAL INTELLIGENCE STYLE AND APPROACH THIS COMPREHENSIVE COURSE PROCEEDS FROM BEING A TUTORIAL TO A PRACTICAL GUIDE PROVIDING AN INTRODUCTION TO MACHINE LEARNING AND DIFFERENT MACHINE LEARNING TECHNIQUES EXPLORING MACHINE LEARNING WITH JAVA LIBRARIES AND DEMONSTRATING REAL WORLD MACHINE LEARNING USE CASES USING THE JAVA PLATFORM

LIFELONG MACHINE LEARNING

2020-12-08

LIFELONG MACHINE LEARNING OR LIFELONG LEARNING IS AN ADVANCED MACHINE LEARNING PARADIGM THAT LEARNS CONTINUOUSLY ACCUMULATES THE KNOWLEDGE LEARNED IN PREVIOUS TASKS AND USES IT TO HELP FUTURE LEARNING IN THE PROCESS THE LEARNER BECOMES MORE AND MORE KNOWLEDGEABLE AND EFFECTIVE AT LEARNING THIS LEARNING ABILITY IS ONE OF THE HALLMARKS OF HUMAN INTELLIGENCE HOWEVER THE CURRENT DOMINANT MACHINE LEARNING PARADIGM LEARNS IN ISOLATION GIVEN A TRAINING DATASET IT RUNS A MACHINE LEARNING ALGORITHM ON THE DATASET TO PRODUCE A MODEL IT MAKES NO ATTEMPT TO RETAIN THE LEARNED KNOWLEDGE AND USE IT IN FUTURE LEARNING ALTHOUGH THIS ISOLATED LEARNING PARADIGM HAS BEEN VERY SUCCESSFUL IT REQUIRES A LARGE NUMBER OF TRAINING EXAMPLES AND IS ONLY SUITABLE FOR WELL DEFINED AND NARROW TASKS IN COMPARISON WE HUMANS CAN LEARN EFFECTIVELY WITH A FEW EXAMPLES BECAUSE WE HAVE ACCUMULATED SO MUCH KNOWLEDGE IN THE PAST WHICH ENABLES US TO LEARN WITH LITTLE DATA OR EFFORT LIFELONG LEARNING AIMS TO ACHIEVE THIS CAPABILITY AS STATISTICAL MACHINE LEARNING MATURES IT IS TIME TO MAKE A MAJOR EFFORT TO BREAK THE ISOLATED LEARNING TRADITION AND TO STUDY LIFELONG LEARNING TO BRING MACHINE LEARNING TO NEW HEIGHTS APPLICATIONS SUCH AS INTELLIGENT ASSISTANTS CHATBOTS AND PHYSICAL ROBOTS THAT INTERACT WITH HUMANS AND SYSTEMS IN REAL LIFE ENVIRONMENTS ARE ALSO CALLING FOR SUCH LIFELONG LEARNING CAPABILITIES WITHOUT THE ABILITY TO ACCUMULATE THE LEARNED KNOWLEDGE AND USE IT TO LEARN MORE KNOWLEDGE INCREMENTALLY A SYSTEM WILL PROBABLY NEVER BE TRULY INTELLIGENT THIS BOOK SERVES AS AN INTRODUCTORY TEXT AND SURVEY TO LIFELONG LEARNING

AI AND MACHINE LEARNING FOR CODERS

2018-04

IF YOU RE LOOKING TO MAKE A CAREER MOVE FROM PROGRAMMER TO AI SPECIALIST THIS IS THE IDEAL PLACE TO START BASED ON LAURENCE MORONEY S EXTREMELY SUCCESSFUL AI COURSES THIS INTRODUCTORY BOOK PROVIDES A HANDS ON CODE FIRST APPROACH TO HELP YOU BUILD CONFIDENCE WHILE YOU LEARN KEY TOPICS YOU LL UNDERSTAND HOW TO IMPLEMENT THE MOST COMMON SCENARIOS IN MACHINE LEARNING SUCH AS COMPUTER VISION NATURAL LANGUAGE PROCESSING NLP AND SEQUENCE MODELING FOR WEB MOBILE CLOUD AND EMBEDDED

RUNTIMES MOST BOOKS ON MACHINE LEARNING BEGIN WITH A DAUNTING AMOUNT OF ADVANCED MATH THIS GUIDE IS BUILT ON PRACTICAL LESSONS THAT LET YOU WORK DIRECTLY WITH THE CODE YOU LL LEARN HOW TO BUILD MODELS WITH TENSORFLOW USING SKILLS THAT EMPLOYERS DESIRE THE BASICS OF MACHINE LEARNING BY WORKING WITH CODE SAMPLES HOW TO IMPLEMENT COMPUTER VISION INCLUDING FEATURE DETECTION IN IMAGES HOW TO USE NLP TO TOKENIZE AND SEQUENCE WORDS AND SENTENCES METHODS FOR EMBEDDING MODELS IN ANDROID AND IOS HOW TO SERVE MODELS OVER THE WEB AND IN THE CLOUD WITH TENSORFLOW SERVING

TensorFlow

2012

TensorFlow

Scaling Up Machine Learning

2019-01-11

THIS INTEGRATED COLLECTION COVERS A RANGE OF PARALLELIZATION PLATFORMS CONCURRENT PROGRAMMING FRAMEWORKS AND MACHINE LEARNING SETTINGS WITH CASE STUDIES

Machine Intelligence: Demystifying Machine Learning, Neural Networks and Deep Learning

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING ARE CONSIDERED AS HOT TECHNOLOGIES OF THIS CENTURY AS THESE TECHNOLOGIES MOVE FROM RESEARCH LABS TO ENTERPRISE DATA CENTERS THE NEED FOR SKILLED PROFESSIONALS IS CONTINUOUSLY ON THE RISE THIS BOOK IS INTENDED FOR IT AND BUSINESS PROFESSIONALS LOOKING TO GAIN PROFICIENCY IN THESE TECHNOLOGIES BUT ARE TURNED OFF BY THE COMPLEX MATHEMATICAL EQUATIONS THIS BOOK IS ALSO USEFUL FOR STUDENTS IN THE AREA OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING TO GAIN A CONCEPTUAL UNDERSTANDING OF THE ALGORITHMS AND GET AN INDUSTRY PERSPECTIVE THIS BOOK IS AN IDEAL PLACE TO START YOUR JOURNEY AS CORE CONCEPTS OF MACHINE LEARNING ALGORITHMS ARE EXPLAINED IN PLAIN ENGLISH USING ILLUSTRATIONS DATA TABLES AND EXAMPLES INTUITIVE MEANING OF THE MATHEMATICS BEHIND POPULAR MACHINE LEARNING ALGORITHMS EXPLAINED COVERS CLASSICAL MACHINE LEARNING NEURAL NETWORKS AND DEEP LEARNING ALGORITHMS AT A TIME WHEN THE IT INDUSTRY IS FOCUSING ON RESKILLING ITS VAST HUMAN RESOURCES MACHINE INTELLIGENCE IS A VERY TIMELY PUBLICATION IT HAS A SIMPLE APPROACH THAT BUILDS UP FROM BASICS WHICH WOULD HELP SOFTWARE ENGINEERS AND STUDENTS LOOKING TO LEARN ABOUT THE FIELD AS WELL AS THOSE WHO MIGHT HAVE STARTED OFF WITHOUT THE BENEFIT OF A STRUCTURED INTRODUCTION OR SOUND BASICS HIGHLY RECOMMENDED SIDDHARTHA S FOUNDER AND CEO OF INTAIN FINANCIAL TECHNOLOGY STARTUP SURESH HAS WRITTEN A VERY ACCESSIBLE BOOK FOR PRACTITIONERS THE BOOK HAS DEPTH YET AVOIDS EXCESSIVE MATHEMATICS THE COVERAGE OF THE SUBJECT IS VERY GOOD AND HAS MOST OF THE CONCEPTS REQUIRED FOR UNDERSTANDING MACHINE LEARNING IF SOMEONE IS LOOKING FOR DEPTH FOR SENIOR MANAGEMENT IT WILL PROVIDE A GOOD OVERVIEW IT IS WELL WRITTEN I HIGHLY RECOMMEND IT WHEE TECK ONG CEO OF TRUSTED SOURCE AND VP OF SINGAPORE COMPUTER SOCIETY

- [THE COMPTON EFFECT COMPTON SCATTERING AND GAMMA RAY \(2023\)](#)
- [THE CODE THE SECRET HISTORY OF CODES AND CODE BREAKING \(READ ONLY\)](#)
- [IN YOUR FACE HOW AMERICAN MARKETING EXCESS FUELS ANTI AMERICANISM FULL PDF](#)
- [FIT FOR GROWTH A GUIDE TO STRATEGIC COST CUTTING RESTRUCTURING AND RENEWAL \[PDF\]](#)
- [STEPHEN COVEY EVERYDAY GREATNESS \(PDF\)](#)
- [TAX AVOIDANCE CAUSES AND SOLUTIONS SCHOLARLY COMMONS \(2023\)](#)
- [PIERINO E IL CANE LUPO BULLDOG VINCERE IL BULLISMO CON LAIUTO DEI CANI \(DOWNLOAD ONLY\)](#)
- [FUNDAMENTALS OF MANAGEMENT 7TH EDITION PEARSON \(DOWNLOAD ONLY\)](#)
- [A FLY WENT BY BEGINNER BOOKSR \(PDF\)](#)
- [HAWK MOTHS OF CENTRAL AND SOUTHERN AFRICA FULL PDF](#)
- [POP UP CARD TEMPLATE PAPERCRAFT COPY](#)
- [BUSINESSOBJECTS XI 31 INSTALLATION GUIDE \[PDF\]](#)
- [THE LONGINGS AND LIMITS OF GLOBAL CITIZENSHIP EDUCATION THE MORAL PEDAGOGY OF SCHOOLING IN A COSMOPOLITAN AGE \(DOWNLOAD ONLY\)](#)
- [MATERIALI PROGETTO IL FUTURO DELLA TRADIZIONE \(2023\)](#)
- [IGCSE EDEXCEL MATHS PAST PAPERS \(READ ONLY\)](#)
- [AGFA SUPER ISOLETTE MANUAL \(2023\)](#)
- [MCQUARRIE GENERAL CHEMISTRY SOLUTION MANUAL \(READ ONLY\)](#)
- [CHAPTER 24 ASSESSMENT SOUND ANSWERS \(2023\)](#)
- [ARTHURS NEW PUPPY ARTHUR ADVENTURE SERIES COPY](#)
- [UN MONDO PERDUTO VIAGGIO A RITROSO NEL TEMPO \(DOWNLOAD ONLY\)](#)
- [TOYOTA LANDCRUISER V8 ENGINE WIRING DIAGRAM FULL PDF](#)
- [LANGUAGE OF MEDICINE 9TH EDITION CHAPTER 1 COPY](#)
- [EDUCATED THE SUNDAY TIMES AND NEW YORK TIMES BESTSELLING MEMOIR \[PDF\]](#)
- [DESIGN OF ANALOG CMOS INTEGRATED CIRCUITS SOLUTIONS MCGRAW RAZAVI \(2023\)](#)
- [KEY CONCEPT BUILDER ANSWERS SCREES .PDF](#)
- [LEARNERS LICENCE QUESTION PAPER CODE 14 FULL PDF](#)
- [ART TATUM JAZZ PIANO AMBASR \(DOWNLOAD ONLY\)](#)
- [CULTURE OF ANIMAL CELLS A MANUAL OF BASIC TECHNIQUE \[PDF\]](#)
- [CHRYSLER TOWN AND COUNTRY 2013 MANUAL \(PDF\)](#)