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RATHER THAN ENJOYING A GOOD BOOK IN THE SAME WAY AS A MUG OF COFFEE IN THE AFTERNOON, OTHERWISE THEY JUGGLED AFTERWARD SOME HARMFUL VIRUS INSIDE THEIR COMPUTER. **DEEP LEARNING MICROSOFT** IS MANAGEABLE IN OUR DIGITAL LIBRARY AN ONLINE PERMISSION TO IT IS SET AS PUBLIC AS A RESULT YOU CAN DOWNLOAD IT INSTANTLY. OUR DIGITAL LIBRARY SAVES IN COMBINATION COUNTRIES, ALLOWING YOU TO ACQUIRE THE MOST LESS LATENCY ERA TO DOWNLOAD ANY OF OUR BOOKS LIKE THIS ONE. MERELY SAID, THE DEEP LEARNING MICROSOFT IS UNIVERSALLY COMPATIBLE IN THE SAME WAY AS ANY DEVICES TO READ.

HANDS-ON MACHINE LEARNING WITH AZURE - THOMAS K ABRAHAM 2018-10-31

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 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'LL 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

LEARN AZURE IN A MONTH OF LUNCHES, SECOND EDITION - IAIN FOULDS
2020-10-06

LEARN AZURE IN A MONTH OF LUNCHES, SECOND EDITION, IS A TUTORIAL ON WRITING, DEPLOYING, AND RUNNING APPLICATIONS IN AZURE. IN IT, YOU'LL WORK THROUGH 21 SHORT LESSONS THAT GIVE YOU REAL-WORLD EXPERIENCE. EACH LESSON INCLUDES A HANDS-ON LAB SO YOU CAN TRY OUT AND LOCK IN YOUR NEW SKILLS.

SUMMARY
YOU CAN BE INCREDIBLY PRODUCTIVE WITH AZURE WITHOUT MASTERING EVERY FEATURE, FUNCTION, AND SERVICE. LEARN AZURE IN A MONTH OF LUNCHES, SECOND EDITION GETS YOU UP AND RUNNING QUICKLY, TEACHING YOU THE MOST IMPORTANT CONCEPTS AND TASKS IN 21 PRACTICAL BITE-SIZED LESSONS. AS YOU EXPLORE THE EXAMPLES, EXERCISES, AND LABS, YOU'LL PICK UP VALUABLE SKILLS IMMEDIATELY AND TAKE YOUR FIRST STEPS TO AZURE MASTERY! THIS FULLY REVISED NEW EDITION COVERS CORE CHANGES TO THE AZURE UI, NEW AZURE FEATURES, AZURE CONTAINERS, AND THE UPGRADED AZURE KUBERNETES SERVICE. PURCHASE

OF THE PRINT BOOK INCLUDES A FREE EBOOK IN PDF, KINDLE, AND EPUB FORMATS FROM MANNING PUBLICATIONS. ABOUT THE TECHNOLOGY MICROSOFT AZURE IS VAST AND POWERFUL, OFFERING VIRTUAL SERVERS, APPLICATION TEMPLATES, AND PREBUILT SERVICES FOR EVERYTHING FROM DATA STORAGE TO AI. TO NAVIGATE IT ALL, YOU NEED A TRUSTWORTHY GUIDE. IN THIS BOOK, MICROSOFT ENGINEER AND AZURE TRAINER IAIN FOULDS FOCUSES ON CORE SKILLS FOR CREATING CLOUD-BASED APPLICATIONS. ABOUT THE BOOK LEARN AZURE IN A MONTH OF LUNCHES, SECOND EDITION, IS A TUTORIAL ON WRITING, DEPLOYING, AND RUNNING APPLICATIONS IN AZURE. IN IT, YOU'LL WORK THROUGH 21 SHORT LESSONS THAT GIVE YOU REAL-WORLD EXPERIENCE. EACH LESSON INCLUDES A HANDS-ON LAB SO YOU CAN TRY OUT AND LOCK IN YOUR NEW SKILLS. WHAT'S INSIDE UNDERSTANDING AZURE BEYOND POINT-AND-CLICK SECURING APPLICATIONS AND DATA AUTOMATING YOUR ENVIRONMENT AZURE SERVICES FOR MACHINE LEARNING, CONTAINERS, AND MORE ABOUT THE READER THIS BOOK IS FOR READERS WHO CAN WRITE AND DEPLOY SIMPLE WEB OR CLIENT/SERVER APPLICATIONS. ABOUT THE AUTHOR IAIN FOULDS IS AN ENGINEER AND SENIOR CONTENT DEVELOPER WITH MICROSOFT. TABLE OF CONTENTS PART 1 - AZURE CORE SERVICES 1 BEFORE YOU BEGIN 2 CREATING A VIRTUAL MACHINE 3 AZURE WEB APPS 4 INTRODUCTION

TO AZURE STORAGE 5 AZURE NETWORKING BASICS PART 2 - HIGH AVAILABILITY AND SCALE 6 AZURE RESOURCE MANAGER 7 HIGH AVAILABILITY AND REDUNDANCY 8 LOAD-BALANCING APPLICATIONS 9 APPLICATIONS THAT SCALE 10 GLOBAL DATABASES WITH COSMOS DB 11 MANAGING NETWORK TRAFFIC AND ROUTING 12 MONITORING AND TROUBLESHOOTING PART 3 - SECURE BY DEFAULT 13 BACKUP, RECOVERY, AND REPLICATION 14 DATA ENCRYPTION 15 SECURING INFORMATION WITH AZURE KEY VAULT 16 AZURE SECURITY CENTER AND UPDATES PART 4 - THE COOL STUFF 17 MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE 18 AZURE AUTOMATION 19 AZURE CONTAINERS 20 AZURE AND THE INTERNET OF THINGS 21 SERVERLESS COMPUTING **NATURAL LANGUAGE PROCESSING WITH TENSORFLOW** - THUSHAN GANEGERA 2018-05-31 WRITE MODERN NATURAL LANGUAGE PROCESSING APPLICATIONS USING DEEP LEARNING ALGORITHMS AND TENSORFLOW KEY FEATURES FOCUSES ON MORE EFFICIENT NATURAL LANGUAGE PROCESSING USING TENSORFLOW COVERS NLP AS A FIELD IN ITS OWN RIGHT TO IMPROVE UNDERSTANDING FOR CHOOSING TENSORFLOW TOOLS AND OTHER DEEP LEARNING APPROACHES PROVIDES CHOICES FOR HOW TO PROCESS AND EVALUATE LARGE UNSTRUCTURED TEXT DATASETS LEARN TO APPLY THE TENSORFLOW TOOLBOX TO SPECIFIC TASKS IN THE MOST

INTERESTING FIELD IN ARTIFICIAL INTELLIGENCE

BOOK DESCRIPTION

NATURAL LANGUAGE PROCESSING (NLP) SUPPLIES THE MAJORITY OF DATA AVAILABLE TO DEEP LEARNING APPLICATIONS, WHILE TENSORFLOW IS THE MOST IMPORTANT DEEP LEARNING FRAMEWORK CURRENTLY AVAILABLE. NATURAL LANGUAGE PROCESSING WITH TENSORFLOW BRINGS TENSORFLOW AND NLP TOGETHER TO GIVE YOU INVALUABLE TOOLS TO WORK WITH THE IMMENSE VOLUME OF UNSTRUCTURED DATA IN TODAY'S DATA STREAMS, AND APPLY THESE TOOLS TO SPECIFIC NLP TASKS. THUSHAN GANEGERA STARTS BY GIVING YOU A GROUNDING IN NLP AND TENSORFLOW BASICS. YOU'LL THEN LEARN HOW TO USE WORD2VEC, INCLUDING ADVANCED EXTENSIONS, TO CREATE WORD EMBEDDINGS THAT TURN SEQUENCES OF WORDS INTO VECTORS ACCESSIBLE TO DEEP LEARNING ALGORITHMS. CHAPTERS ON CLASSICAL DEEP LEARNING ALGORITHMS, LIKE CONVOLUTIONAL NEURAL NETWORKS (CNN) AND RECURRENT NEURAL NETWORKS (RNN), DEMONSTRATE IMPORTANT NLP TASKS AS SENTENCE CLASSIFICATION AND LANGUAGE GENERATION. YOU WILL LEARN HOW TO APPLY HIGH-PERFORMANCE RNN MODELS, LIKE LONG SHORT-TERM MEMORY (LSTM) CELLS, TO NLP TASKS. YOU WILL ALSO EXPLORE NEURAL MACHINE TRANSLATION AND IMPLEMENT A NEURAL MACHINE TRANSLATOR. AFTER READING THIS BOOK, YOU WILL GAIN AN

UNDERSTANDING OF NLP AND YOU'LL HAVE THE SKILLS TO APPLY TENSORFLOW IN DEEP LEARNING NLP APPLICATIONS, AND HOW TO PERFORM SPECIFIC NLP TASKS. WHAT YOU WILL LEARN CORE CONCEPTS OF NLP AND VARIOUS APPROACHES TO NATURAL LANGUAGE PROCESSING HOW TO SOLVE NLP TASKS BY APPLYING TENSORFLOW FUNCTIONS TO CREATE NEURAL NETWORKS STRATEGIES TO PROCESS LARGE AMOUNTS OF DATA INTO WORD REPRESENTATIONS THAT CAN BE USED BY DEEP LEARNING APPLICATIONS TECHNIQUES FOR PERFORMING SENTENCE CLASSIFICATION AND LANGUAGE GENERATION USING CNNs AND RNNs ABOUT EMPLOYING STATE-OF-THE ART ADVANCED RNNs, LIKE LONG SHORT-TERM MEMORY, TO SOLVE COMPLEX TEXT GENERATION TASKS HOW TO WRITE AUTOMATIC TRANSLATION PROGRAMS AND IMPLEMENT AN ACTUAL NEURAL MACHINE TRANSLATOR FROM SCRATCH THE TRENDS AND INNOVATIONS THAT ARE PAVING THE FUTURE IN NLP WHO THIS BOOK IS FOR THIS BOOK IS FOR PYTHON DEVELOPERS WITH A STRONG INTEREST IN DEEP LEARNING, WHO WANT TO LEARN HOW TO LEVERAGE TENSORFLOW TO SIMPLIFY NLP TASKS. FUNDAMENTAL PYTHON SKILLS ARE ASSUMED, AS WELL AS SOME KNOWLEDGE OF MACHINE LEARNING AND UNDERGRADUATE-LEVEL CALCULUS AND LINEAR ALGEBRA. NO PREVIOUS NATURAL LANGUAGE PROCESSING EXPERIENCE REQUIRED, ALTHOUGH SOME BACKGROUND IN NLP OR COMPUTATIONAL LINGUISTICS WILL

BE HELPFUL.

REPROGRAMMING THE AMERICAN DREAM

- KEVIN SCOTT 2020-04-07

** #1 WALL STREET JOURNAL BESTSELLER ** IN THIS ESSENTIAL BOOK WRITTEN BY A RURAL NATIVE AND SILICON VALLEY VETERAN, MICROSOFT'S CHIEF TECHNOLOGY OFFICER TACKLES ONE OF THE MOST CRITICAL ISSUES FACING SOCIETY TODAY: THE FUTURE OF ARTIFICIAL INTELLIGENCE AND HOW IT CAN BE REALISTICALLY USED TO PROMOTE GROWTH, EVEN IN A SHIFTING EMPLOYMENT LANDSCAPE. THERE ARE TWO PREVAILING STORIES ABOUT AI: FOR HEARTLAND LOW- AND MIDDLE-SKILL WORKERS, A DYSTOPIAN TALE OF STEADILY INCREASING JOB DESTRUCTION; FOR URBAN KNOWLEDGE WORKERS AND THE PROFESSIONAL CLASS, A UTOPIAN TALE OF ENHANCED PRODUCTIVITY AND CONVENIENCE. BUT THERE IS A THIRD WAY TO LOOK AT THIS TECHNOLOGY THAT WILL REVOLUTIONIZE THE WORKPLACE AND ULTIMATELY THE WORLD. KEVIN SCOTT ARGUES THAT AI HAS THE POTENTIAL TO CREATE ABUNDANCE AND OPPORTUNITY FOR EVERYONE AND HELP SOLVE SOME OF OUR MOST VEXING PROBLEMS. AS THE CHIEF TECHNOLOGY OFFICER AT MICROSOFT, HE IS DEEPLY INVOLVED IN THE DEVELOPMENT OF AI APPLICATIONS, YET MINDFUL OF THEIR POTENTIAL IMPACT ON WORKERS—KNOWLEDGE HE GAINED FIRSTHAND GROWING UP IN RURAL VIRGINIA. YES, THE AI REVOLUTION WILL RADICALLY DISRUPT ECONOMICS

AND EMPLOYMENT FOR EVERYONE FOR GENERATIONS TO COME. BUT WHAT IF LEADERS PRIORITIZED THE PROGRAMMING OF BOTH FUTURE TECHNOLOGY AND PUBLIC POLICY TO WORK TOGETHER TO FIND SOLUTIONS AHEAD OF THE COMING AI EPOCH? LIKE PUBLIC HEALTH, THE SPACE PROGRAM, CLIMATE CHANGE AND PUBLIC EDUCATION, WE NEED INTERNATIONAL UNDERSTANDING AND COLLABORATION ON THE FUTURE OF AI AND WORK. FOR SCOTT, THE CRUCIAL QUESTION FACING ALL OF US IS THIS: HOW DO WE WORK TO ENSURE THAT THE CONTINUED DEVELOPMENT OF AI ALLOWS US TO KEEP THE AMERICAN DREAM ALIVE? IN THIS THOUGHTFUL, INFORMED GUIDE, HE OFFERS A CLEAR ROADMAP TO FIND THE ANSWER.

THE ATLAS OF AI - KATE CRAWFORD
2021-04-06

THE HIDDEN COSTS OF ARTIFICIAL INTELLIGENCE, FROM NATURAL RESOURCES AND LABOR TO PRIVACY AND FREEDOM WHAT HAPPENS WHEN ARTIFICIAL INTELLIGENCE SATURATES POLITICAL LIFE AND DEPLETES THE PLANET? HOW IS AI SHAPING OUR UNDERSTANDING OF OURSELVES AND OUR SOCIETIES? IN THIS BOOK KATE CRAWFORD REVEALS HOW THIS PLANETARY NETWORK IS FUELING A SHIFT TOWARD UNDEMOCRATIC GOVERNANCE AND INCREASED INEQUALITY. DRAWING ON MORE THAN A DECADE OF RESEARCH, AWARD-WINNING SCIENCE, AND TECHNOLOGY, CRAWFORD REVEALS HOW AI IS A TECHNOLOGY OF EXTRACTION: FROM THE ENERGY AND MINERALS NEEDED TO BUILD AND

SUSTAIN ITS INFRASTRUCTURE, TO THE EXPLOITED WORKERS BEHIND "AUTOMATED" SERVICES, TO THE DATA AI COLLECTS FROM US. RATHER THAN TAKING A NARROW FOCUS ON CODE AND ALGORITHMS, CRAWFORD OFFERS US A POLITICAL AND A MATERIAL PERSPECTIVE ON WHAT IT TAKES TO MAKE ARTIFICIAL INTELLIGENCE AND WHERE IT GOES WRONG. WHILE TECHNICAL SYSTEMS PRESENT A VENEER OF OBJECTIVITY, THEY ARE ALWAYS SYSTEMS OF POWER. THIS IS AN URGENT ACCOUNT OF WHAT IS AT STAKE AS TECHNOLOGY COMPANIES USE ARTIFICIAL INTELLIGENCE TO RESHAPE THE WORLD.

LARGE-SCALE C++ VOLUME I - JOHN LAKOS 2019-12-02

WRITING RELIABLE AND MAINTAINABLE C++ SOFTWARE IS HARD. DESIGNING SUCH SOFTWARE AT SCALE ADDS A NEW SET OF CHALLENGES. CREATING LARGE-SCALE SYSTEMS REQUIRES A PRACTICAL UNDERSTANDING OF LOGICAL DESIGN - BEYOND THE THEORETICAL CONCEPTS ADDRESSED IN MOST POPULAR TEXTS. TO BE SUCCESSFUL ON AN ENTERPRISE SCALE, DEVELOPERS MUST ALSO ADDRESS PHYSICAL DESIGN, A DIMENSION OF SOFTWARE ENGINEERING THAT MAY BE UNFAMILIAR EVEN TO EXPERT DEVELOPERS. DRAWING ON OVER 30 YEARS OF HANDS-ON EXPERIENCE BUILDING MASSIVE, MISSION-CRITICAL ENTERPRISE SYSTEMS, JOHN LAKOS SHOWS HOW TO CREATE AND GROW SOFTWARE CAPITAL. THIS GROUNDBREAKING VOLUME LAYS THE FOUNDATION FOR PROJECTS OF ALL

SIZES AND DEMONSTRATES THE PROCESSES, METHODS, TECHNIQUES, AND TOOLS NEEDED FOR SUCCESSFUL REAL-WORLD, LARGE-SCALE DEVELOPMENT. UP TO DATE AND WITH A SOLID ENGINEERING FOCUS, LARGE-SCALE C++, VOLUME I: PROCESS AND ARCHITECTURE, DEMONSTRATES FUNDAMENTAL DESIGN CONCEPTS WITH CONCRETE EXAMPLES. PROFESSIONAL DEVELOPERS OF ALL EXPERIENCE LEVELS WILL GAIN INSIGHTS THAT TRANSFORM THEIR APPROACH TO DESIGN AND DEVELOPMENT BY UNDERSTANDING HOW TO RAISE PRODUCTIVITY BY LEVERAGING DIFFERENCES BETWEEN INFRASTRUCTURE AND APPLICATION DEVELOPMENT ACHIEVE EXPONENTIAL PRODUCTIVITY GAINS THROUGH FEEDBACK AND HIERARCHICAL REUSE EMBRACE THE COMPONENT'S ROLE AS THE FUNDAMENTAL UNIT OF BOTH LOGICAL AND PHYSICAL DESIGN ANALYZE HOW FUNDAMENTAL PROPERTIES OF COMPILING AND LINKING AFFECT COMPONENT DESIGN DISCOVER EFFECTIVE PARTITIONING OF LOGICAL CONTENT IN APPROPRIATELY SIZED PHYSICAL AGGREGATES INTERNALIZE THE IMPORTANT DIFFERENCES AMONG SUFFICIENT, COMPLETE, MINIMAL, AND PRIMITIVE SOFTWARE DELIVER SOLUTIONS THAT SIMULTANEOUSLY OPTIMIZE ENCAPSULATION, STABILITY, AND PERFORMANCE EXPLOIT THE NINE ESTABLISHED LEVELIZATION TECHNIQUES TO AVOID CYCLIC PHYSICAL DEPENDENCIES USE LATERAL DESIGNS JUDICIOUSLY TO AVOID THE "HEAVINESS" OF CONVENTIONAL

LAYERED ARCHITECTURES EMPLOY APPROPRIATE ARCHITECTURAL INSULATION TECHNIQUES FOR ELIMINATING COMPILE-TIME COUPLING MASTER THE MULTIDIMENSIONAL PROCESS OF DESIGNING LARGE SYSTEMS USING COMPONENT-BASED METHODS THIS IS THE FIRST OF JOHN LAKOS'S THREE AUTHORITATIVE VOLUMES ON DEVELOPING LARGE-SCALE SYSTEMS USING C++. THIS BOOK, WRITTEN FOR FELLOW SOFTWARE PRACTITIONERS, USES FAMILIAR C++ CONSTRUCTS TO SOLVE REAL-WORLD PROBLEMS WHILE IDENTIFYING (AND MOTIVATING) MODERN C++ ALTERNATIVES. TOGETHER WITH THE FORTHCOMING VOLUME II: DESIGN AND IMPLEMENTATION AND VOLUME III: VERIFICATION AND TESTING, LARGE-SCALE C++ OFFERS COMPREHENSIVE GUIDANCE FOR ALL ASPECTS OF LARGE-SCALE C++ SOFTWARE DEVELOPMENT. IF YOU ARE AN ARCHITECT OR PROJECT LEADER, THIS BOOK WILL EMPOWER YOU TO SOLVE CRITICALLY IMPORTANT PROBLEMS RIGHT NOW - AND SERVE AS YOUR GO-TO REFERENCE FOR YEARS TO COME. REGISTER YOUR BOOK FOR CONVENIENT ACCESS TO DOWNLOADS, UPDATES, AND/OR CORRECTIONS AS THEY BECOME AVAILABLE. SEE INSIDE BOOK FOR DETAILS.

INTERPRETABLE MACHINE LEARNING -
CHRISTOPH MOLNAR 2020

THIS BOOK IS ABOUT MAKING MACHINE LEARNING MODELS AND THEIR DECISIONS INTERPRETABLE. AFTER EXPLORING THE CONCEPTS OF INTERPRETABILITY, YOU WILL LEARN ABOUT SIMPLE, INTERPRETABLE MODELS SUCH AS

DECISION TREES, DECISION RULES AND LINEAR REGRESSION. LATER CHAPTERS FOCUS ON GENERAL MODEL-AGNOSTIC METHODS FOR INTERPRETING BLACK BOX MODELS LIKE FEATURE IMPORTANCE AND ACCUMULATED LOCAL EFFECTS AND EXPLAINING INDIVIDUAL PREDICTIONS WITH SHAPLEY VALUES AND LIME. ALL INTERPRETATION METHODS ARE EXPLAINED IN DEPTH AND DISCUSSED CRITICALLY. HOW DO THEY WORK UNDER THE HOOD? WHAT ARE THEIR STRENGTHS AND WEAKNESSES? HOW CAN THEIR OUTPUTS BE INTERPRETED? THIS BOOK WILL ENABLE YOU TO SELECT AND CORRECTLY APPLY THE INTERPRETATION METHOD THAT IS MOST SUITABLE FOR YOUR MACHINE LEARNING PROJECT.

NEURAL APPROACHES TO CONVERSATIONAL AI: QUESTION ANSWERING, TASK-ORIENTED DIALOGUES AND SOCIAL CHATBOTS -
JIANFENG GAO 2019-02-21

THIS MONOGRAPH IS THE FIRST SURVEY OF NEURAL APPROACHES TO CONVERSATIONAL AI THAT TARGETS NATURAL LANGUAGE PROCESSING AND INFORMATION RETRIEVAL AUDIENCES. IT PROVIDES A COMPREHENSIVE SURVEY OF THE NEURAL APPROACHES TO CONVERSATIONAL AI THAT HAVE BEEN DEVELOPED IN THE LAST FEW YEARS, COVERING QA, TASK-ORIENTED AND SOCIAL BOTS WITH A UNIFIED VIEW OF OPTIMAL DECISION MAKING. THE AUTHORS DRAW CONNECTIONS BETWEEN MODERN NEURAL APPROACHES AND TRADITIONAL APPROACHES, ALLOWING READERS TO BETTER

UNDERSTAND WHY AND HOW THE RESEARCH HAS EVOLVED AND TO SHED LIGHT ON HOW THEY CAN MOVE FORWARD. THEY ALSO PRESENT STATE-OF-THE-ART APPROACHES TO TRAINING DIALOGUE AGENTS USING BOTH SUPERVISED AND REINFORCEMENT LEARNING. FINALLY, THE AUTHORS SKETCH OUT THE LANDSCAPE OF CONVERSATIONAL SYSTEMS DEVELOPED IN THE RESEARCH COMMUNITY AND RELEASED IN INDUSTRY, DEMONSTRATING VIA CASE STUDIES THE PROGRESS THAT HAS BEEN MADE AND THE CHALLENGES THAT ARE STILL BEING FACED. NEURAL APPROACHES TO CONVERSATIONAL AI IS A VALUABLE RESOURCE FOR STUDENTS, RESEARCHERS, AND SOFTWARE DEVELOPERS. IT PROVIDES A UNIFIED VIEW, AS WELL AS A DETAILED PRESENTATION OF THE IMPORTANT IDEAS AND INSIGHTS NEEDED TO UNDERSTAND AND CREATE MODERN DIALOGUE AGENTS THAT WILL BE INSTRUMENTAL TO MAKING WORLD KNOWLEDGE AND SERVICES ACCESSIBLE TO MILLIONS OF USERS IN WAYS THAT SEEM NATURAL AND INTUITIVE.

MICROSOFT ML.NET MACHINE LEARNING FOR .NET DEVELOPERS USING C#.NET -

JAKIA SALAM 2019-07-28

MACHINE LEARNING HAS BECOME A FUNDAMENTAL AND INTEGRAL PART OF MANY NOVEL BUSINESS SOLUTIONS. UNTIL NOW, THOSE WITH C#.NET PROGRAMMING EXPERIENCE HAD TO LEARN EITHER R OR PYTHON TO DELVE INTO THE MACHINE LEARNING WORLD. FORTUNATELY, MICROSOFT HAS RECENTLY RELEASED ML.NET (VERSION

1.2) MACHINE LEARNING PACKAGE. C#.NET PROGRAMMERS WORLDWIDE CAN NOW LEVERAGE THEIR C#.NET EXPERIENCE TO TRAIN, EVALUATE AND BUILD MACHINE LEARNING MODELS AND SOLUTIONS USING MICROSOFT ML.NET PACKAGE. MICROSOFT ML.NET PACKAGE, AVAILABLE FOR DOWNLOAD FROM [HTTPS://WWW.NUGET.ORG](https://www.nuget.org), IS AN EXCELLENT COLLECTION OF MACHINE LEARNING ALGORITHMS COVERING A WIDE RANGE OF MACHINE LEARNING TASKS INCLUDING TEXT CLASSIFICATION, BINARY AND MULTI-CLASS CLASSIFICATION, REGRESSION, CLUSTER ANALYSIS, RECOMMENDER, AMONG OTHERS, AND ALL OF THESE ALGORITHMS CAN NOW BE USED FOR TRAINING, EVALUATING AND USING MACHINE LEARNING MODELS IN C#.NET. NOW, C#.NET PROGRAMMERS CAN DEVELOP NOVEL AND INTELLIGENT APPS FOR WINDOWS DESKTOP USING THEIR EXTENSIVE C#.NET EXPERIENCE. THOSE WHO PREFER TO USE XAMARIN TO DEVELOP CROSS-PLATFORM APPS FOR ANDROID OR IOS OR MACOS USING C#.NET CAN NOW INCORPORATE MACHINE LEARNING MODELS DIRECTLY IN THEIR APPS LEVERAGING THEIR C#.NET EXPERIENCE. THOSE WHO DEVELOP, USING UNITY 3D, GAMES OR DATA VISUALIZATION APPLICATIONS CAN NOW INCORPORATE MACHINE LEARNING MODELS IN THEIR GAMES OR APPLICATIONS USING C#.NET. THE POSSIBILITIES ARE LIMITED ONLY BY YOUR IMAGINATION. IN THE 'MICROSOFT ML.NET MACHINE LEARNING FOR .NET DEVELOPERS USING C#.NET' BOOK

(VOLUME I), YOU WILL FIND C#.NET PROGRAMS THAT TAKE YOU STEP-BY-STEP IN COMPLETING MACHINE LEARNING MODEL TRAINING, EVALUATION AND USE FOR SPECIFIC TASKS AND ALGORITHMS. ALONG WITH STEP-BY-STEP DISCUSSION OF THE C# PROGRAM FOR EACH ALGORITHM COVERED IN THE BOOK, YOU WILL ALSO FIND DEMONSTRATION VIDEOS FOR EACH CHAPTER COVERING EACH ALGORITHM AND SHOWING WHAT TO DO AT EACH STEP. THE BOOK ALSO PROVIDES FULL CODE-LISTING WITH COMMENTS FOR EACH CHAPTER. ADDITIONALLY, YOU WILL BE ABLE TO DOWNLOAD THE CHAPTER EXAMPLE AND SAMPLE C#.NET PROGRAMS FROM THE GITHUB REPOSITORY FOR THIS BOOK. THIS BOOK ASSUMES THAT YOU ARE FAMILIAR WITH VISUAL STUDIO 2019 AND THAT YOU ARE SOMEWHAT COMFORTABLE WITH C#.NET PROGRAMMING LANGUAGE AT A FUNDAMENTAL LEVEL. WITH THIS BOOK, YOU WILL LEARN: *TO DOWNLOAD AND IMPORT MICROSOFT ML.NET PACKAGE DIRECTLY INTO YOUR VISUAL STUDIO 2019 SOLUTION*TO ADD TRAINING AND TESTING DATA SETS TO YOUR VISUAL STUDIO 2019 SOLUTION*TO ADD AND CREATE C# CLASSES THAT SERVE AS INPUT AND OUTPUT DATA MODEL CLASSES FOR YOUR MACHINE LEARNING MODEL *TO WORK WITH SPECIFIC ALGORITHMS FOR BINARY CLASSIFICATION AND MULTI-CLASS CLASSIFICATION*TO PERFORM SENTIMENT ANALYSIS AND IRIS FLOWER CLASSIFICATION*TO USE AND APPLY

MLCONTEXT AND IDATAVIEW OBJECTS IN DEVELOPING MACHINE LEARNING MODELS*TO EVALUATE MACHINE LEARNING MODELS USING VARIOUS PERFORMANCE METRICS*TO USE AND APPLY TRAINED MACHINE LEARNING MODELS FOR PREDICTION OR CLASSIFICATION TASKS*TO SAVE TRAINED MACHINE LEARNING MODELS FOR APPLICATION DEVELOPMENT AT A LATER DATE*TO CREATE A SENTIMENT ANALYSIS WINDOWS .NET APP THAT USES ALREADY TRAINED MACHINE LEARNING MODEL
HANDS-ON MACHINE LEARNING WITH MICROSOFT EXCEL 2019 - JULIO CESAR RODRIGUEZ MARTINO
2019-04-30
A PRACTICAL GUIDE TO GETTING THE MOST OUT OF EXCEL, USING IT FOR DATA PREPARATION, APPLYING MACHINE LEARNING MODELS (INCLUDING CLOUD SERVICES) AND UNDERSTANDING THE OUTCOME OF THE DATA ANALYSIS. KEY FEATURES USE MICROSOFT'S PRODUCT EXCEL TO BUILD ADVANCED FORECASTING MODELS USING VARIED EXAMPLES COVER RANGE OF MACHINE LEARNING TASKS SUCH AS DATA MINING, DATA ANALYTICS, SMART VISUALIZATION, AND MORE DERIVE DATA-DRIVEN TECHNIQUES USING EXCEL PLUGINS AND APIs WITHOUT MUCH CODE REQUIRED
BOOK DESCRIPTION WE HAVE MADE HUGE PROGRESS IN TEACHING COMPUTERS TO PERFORM DIFFICULT TASKS, ESPECIALLY THOSE THAT ARE REPETITIVE AND TIME-CONSUMING FOR HUMANS. EXCEL USERS, OF ALL LEVELS, CAN FEEL LEFT BEHIND

BY THIS INNOVATION WAVE. THE TRUTH IS THAT A LARGE AMOUNT OF THE WORK NEEDED TO DEVELOP AND USE A MACHINE LEARNING MODEL CAN BE DONE IN EXCEL. THE BOOK STARTS BY GIVING A GENERAL INTRODUCTION TO MACHINE LEARNING, MAKING EVERY CONCEPT CLEAR AND UNDERSTANDABLE. THEN, IT SHOWS EVERY STEP OF A MACHINE LEARNING PROJECT, FROM DATA COLLECTION, READING FROM DIFFERENT DATA SOURCES, DEVELOPING MODELS, AND VISUALIZING THE RESULTS USING EXCEL FEATURES AND OFFERINGS. IN EVERY CHAPTER, THERE ARE SEVERAL EXAMPLES AND HANDS-ON EXERCISES THAT WILL SHOW THE READER HOW TO COMBINE EXCEL FUNCTIONS, ADD-INS, AND CONNECTIONS TO DATABASES AND TO CLOUD SERVICES TO REACH THE DESIRED GOAL: BUILDING A FULL DATA ANALYSIS FLOW. DIFFERENT MACHINE LEARNING MODELS ARE SHOWN, TAILORED TO THE TYPE OF DATA TO BE ANALYZED. AT THE END OF THE BOOK, THE READER IS PRESENTED WITH SOME ADVANCED USE CASES USING AUTOMATED MACHINE LEARNING, AND ARTIFICIAL NEURAL NETWORK, WHICH SIMPLIFIES THE ANALYSIS TASK AND REPRESENTS THE FUTURE OF MACHINE LEARNING. WHAT YOU WILL LEARN

USE EXCEL TO PREVIEW AND CLEANSE DATASETS
UNDERSTAND CORRELATIONS BETWEEN VARIABLES AND OPTIMIZE THE INPUT TO MACHINE LEARNING MODELS
USE AND EVALUATE DIFFERENT MACHINE LEARNING MODELS FROM EXCEL
UNDERSTAND THE USE OF DIFFERENT VISUALIZATIONS
LEARN THE

BASIC CONCEPTS AND CALCULATIONS TO UNDERSTAND HOW ARTIFICIAL NEURAL NETWORKS WORK
LEARN HOW TO CONNECT EXCEL TO THE MICROSOFT AZURE CLOUD
GET BEYOND PROOF OF CONCEPTS AND BUILD FULLY FUNCTIONAL DATA ANALYSIS FLOWS
WHO THIS BOOK IS FOR
THIS BOOK IS FOR DATA ANALYSIS, MACHINE LEARNING ENTHUSIASTS, PROJECT MANAGERS, AND SOMEONE WHO DOESN'T WANT TO CODE MUCH FOR PERFORMING CORE TASKS OF MACHINE LEARNING. EACH EXAMPLE WILL HELP YOU PERFORM END-TO-END SMART ANALYTICS. WORKING KNOWLEDGE OF EXCEL IS REQUIRED.

DEEP LEARNING WITH AZURE - MATHEW SALVARIS 2018-08-24
GET UP-TO-SPEED WITH MICROSOFT'S AI PLATFORM. LEARN TO INNOVATE AND ACCELERATE WITH OPEN AND POWERFUL TOOLS AND SERVICES THAT BRING ARTIFICIAL INTELLIGENCE TO EVERY DATA SCIENTIST AND DEVELOPER. ARTIFICIAL INTELLIGENCE (AI) IS THE NEW NORMAL. INNOVATIONS IN DEEP LEARNING ALGORITHMS AND HARDWARE ARE HAPPENING AT A RAPID PACE. IT IS NO LONGER A QUESTION OF SHOULD I BUILD AI INTO MY BUSINESS, BUT MORE ABOUT WHERE DO I BEGIN AND HOW DO I GET STARTED WITH AI? WRITTEN BY EXPERT DATA SCIENTISTS AT MICROSOFT, DEEP LEARNING WITH THE MICROSOFT AI PLATFORM HELPS YOU WITH THE HOW-TO OF DOING DEEP LEARNING ON AZURE AND LEVERAGING DEEP LEARNING TO CREATE INNOVATIVE AND INTELLIGENT SOLUTIONS. BENEFIT

FROM GUIDANCE ON WHERE TO BEGIN YOUR AI ADVENTURE, AND LEARN HOW THE CLOUD PROVIDES YOU WITH ALL THE TOOLS, INFRASTRUCTURE, AND SERVICES YOU NEED TO DO AI. WHAT YOU'LL LEARN BECOME FAMILIAR WITH THE TOOLS, INFRASTRUCTURE, AND SERVICES AVAILABLE FOR DEEP LEARNING ON MICROSOFT AZURE SUCH AS AZURE MACHINE LEARNING SERVICES AND BATCH AI USE PRE-BUILT AI CAPABILITIES (COMPUTER VISION, OCR, GENDER, EMOTION, LANDMARK DETECTION, AND MORE) UNDERSTAND THE COMMON DEEP LEARNING MODELS, INCLUDING CONVOLUTIONAL NEURAL NETWORKS (CNNs), RECURRENT NEURAL NETWORKS (RNNs), GENERATIVE ADVERSARIAL NETWORKS (GANs) WITH SAMPLE CODE AND UNDERSTAND HOW THE FIELD IS EVOLVING DISCOVER THE OPTIONS FOR TRAINING AND OPERATIONALIZING DEEP LEARNING MODELS ON AZURE WHO THIS BOOK IS FOR PROFESSIONAL DATA SCIENTISTS WHO ARE INTERESTED IN LEARNING MORE ABOUT DEEP LEARNING AND HOW TO USE THE MICROSOFT AI PLATFORM. SOME EXPERIENCE WITH PYTHON IS HELPFUL.

FOUNDATIONS OF DATA SCIENCE -
AVRIM BLUM 2020-01-23

THIS BOOK PROVIDES AN INTRODUCTION TO THE MATHEMATICAL AND ALGORITHMIC FOUNDATIONS OF DATA SCIENCE, INCLUDING MACHINE LEARNING, HIGH-DIMENSIONAL GEOMETRY, AND ANALYSIS OF LARGE NETWORKS. TOPICS INCLUDE THE COUNTERINTUITIVE NATURE OF DATA IN HIGH DIMENSIONS,

IMPORTANT LINEAR ALGEBRAIC TECHNIQUES SUCH AS SINGULAR VALUE DECOMPOSITION, THE THEORY OF RANDOM WALKS AND MARKOV CHAINS, THE FUNDAMENTALS OF AND IMPORTANT ALGORITHMS FOR MACHINE LEARNING, ALGORITHMS AND ANALYSIS FOR CLUSTERING, PROBABILISTIC MODELS FOR LARGE NETWORKS, REPRESENTATION LEARNING INCLUDING TOPIC MODELLING AND NON-NEGATIVE MATRIX FACTORIZATION, WAVELETS AND COMPRESSED SENSING. IMPORTANT PROBABILISTIC TECHNIQUES ARE DEVELOPED INCLUDING THE LAW OF LARGE NUMBERS, TAIL INEQUALITIES, ANALYSIS OF RANDOM PROJECTIONS, GENERALIZATION GUARANTEES IN MACHINE LEARNING, AND MOMENT METHODS FOR ANALYSIS OF PHASE TRANSITIONS IN LARGE RANDOM GRAPHS. ADDITIONALLY, IMPORTANT STRUCTURAL AND COMPLEXITY MEASURES ARE DISCUSSED SUCH AS MATRIX NORMS AND VC-DIMENSION. THIS BOOK IS SUITABLE FOR BOTH UNDERGRADUATE AND GRADUATE COURSES IN THE DESIGN AND ANALYSIS OF ALGORITHMS FOR DATA.

MICROSOFT AZURE ESSENTIALS AZURE
MACHINE LEARNING - JEFF BARNES
2015-04-25

MICROSOFT AZURE ESSENTIALS FROM MICROSOFT PRESS IS A SERIES OF FREE EBOOKS DESIGNED TO HELP YOU ADVANCE YOUR TECHNICAL SKILLS WITH MICROSOFT AZURE. THIS THIRD EBOOK IN THE SERIES INTRODUCES MICROSOFT AZURE MACHINE LEARNING, A SERVICE THAT A DEVELOPER CAN USE

TO BUILD PREDICTIVE ANALYTICS MODELS (USING TRAINING DATASETS FROM A VARIETY OF DATA SOURCES) AND THEN EASILY DEPLOY THOSE MODELS FOR CONSUMPTION AS CLOUD WEB SERVICES. THE EBOOK PRESENTS AN OVERVIEW OF MODERN DATA SCIENCE THEORY AND PRINCIPLES, THE ASSOCIATED WORKFLOW, AND THEN COVERS SOME OF THE MORE COMMON MACHINE LEARNING ALGORITHMS IN USE TODAY. IT BUILDS A VARIETY OF PREDICTIVE ANALYTICS MODELS USING REAL WORLD DATA, EVALUATES SEVERAL DIFFERENT MACHINE LEARNING ALGORITHMS AND MODELING STRATEGIES, AND THEN DEPLOYS THE FINISHED MODELS AS MACHINE LEARNING WEB SERVICES ON AZURE WITHIN A MATTER OF MINUTES. THE EBOOK ALSO EXPANDS ON A WORKING AZURE MACHINE LEARNING PREDICTIVE MODEL EXAMPLE TO EXPLORE THE TYPES OF CLIENT AND SERVER APPLICATIONS YOU CAN CREATE TO CONSUME AZURE MACHINE LEARNING WEB SERVICES. WATCH MICROSOFT PRESS'S BLOG AND TWITTER (@MICROSOFTPRESS) TO LEARN ABOUT OTHER FREE EBOOKS IN THE MICROSOFT AZURE ESSENTIALS SERIES.

DEEP LEARNING WITH C#, .NET AND KELP.NET - COLE MATT R.

2019-09-20

GET HANDS ON WITH KELP.NET, MICROSOFT'S LATEST DEEP LEARNING FRAMEWORK
KEY FEATURES DEEP LEARNING BASICS THE ULTIMATE KELP.NET REFERENCE GUIDE DEVELOP STATE OF THE ART DEEP LEARNING

APPLICATIONS C# DEEP LEARNING CODE DEVELOP ADVANCED DEEP LEARNING MODELS WITH MINIMAL CODE DEVELOP YOUR OWN ADVANCED DEEP LEARNING MODELS LOADING AND SAVING DEEP LEARNING MODELS COMPREHENSIVE KELP.NET REFERENCE SAMPLE DEEP LEARNING MODELS AND TESTS PENCL REFERENCE EASILY ADD DEEP LEARNING TO YOUR APPLICATIONS MANY SAMPLE MODELS AND TESTS INTUITIVE AND USER FRIENDLY DESCRIPTION DEEP LEARNING WITH KELP.NET IS THE ULTIMATE REFERENCE FOR C#.NET DEVELOPERS WHO ARE PASSIONATE ABOUT DEEP LEARNING. READERS WILL LEARN ALL THE SKILLS NECESSARY TO DEVELOP POWERFUL, SCALABLE AND FLEXIBLE DEEP LEARNING MODELS FROM A FLUID AND EASY TO USE API. UPON COMPLETING THE BOOK THE READER WILL HAVE ALL THE TOOLS NECESSARY TO ADD POWERFUL DEEP LEARNING CAPABILITIES TO THEIR NEW OR EXISTING APPLICATIONS. WHAT WILL YOU LEARN IN-DEPTH KNOWLEDGE OF KELP.NET HOW TO DEVELOP DEEP LEARNING MODELS C# DEEP LEARNING PROGRAMMING OPEN-COMPUTING LANGUAGE (OPENCL) LOADING AND SAVING DEEP LEARNING MODELS HOW TO DEVELOP AND USE ACTIVATION FUNCTIONS HOW TO TEST DEEP LEARNING MODELS WHO THIS BOOK IS FOR THIS BOOK TARGETS C#.NET DEVELOPERS WHO ARE PASSIONATE ABOUT DEEP LEARNING YET WANT TO DO SO FROM AN EASY AND INTUITIVE API. TABLE OF CONTENTS 1. INTRODUCTION 2. ML/DL TERMS AND

CONCEPTS3. DEEP INSTRUMENTATION4. KELP.NET REFERENCE5. LOADING AND SAVING MODELS6. MODEL TESTING AND TRAINING7. SAMPLE DEEP LEARNING TESTS8. CREATING YOUR OWN DEEP LEARNING TESTS9. APPENDIX A: EVALUATION METRICS10. APPENDIX B: OPENCL ABOUT THE AUTHOR

MATT R. COLE IS A SEASONED DEVELOPER AND PUBLISHED AUTHOR WITH OVER 30 YEARS' EXPERIENCE IN MICROSOFT WINDOWS, C, C++, C# AND .NET. MATT IS THE OWNER OF EVOLVED AI SOLUTIONS, A PREMIER PROVIDER OF ADVANCED MACHINE LEARNING/BIO-AI TECHNOLOGIES. MATT DEVELOPED THE FIRST ENTERPRISE GRADE MICROSERVICE FRAMEWORK WRITTEN COMPLETELY IN C# AND .NET, WHICH IS USED IN PRODUCTION BY A MAJOR HEDGE FUND IN NYC. MATT ALSO DEVELOPED THE FIRST BIO ARTIFICIAL INTELLIGENCE FRAMEWORK WHICH COMPLETELY INTEGRATES MIRROR AND CANONICAL NEURONS. HE CONTINUES TO PUSH THE LIMITS OF MACHINE LEARNING, BIOLOGICAL ARTIFICIAL INTELLIGENCE, DEEP LEARNING AND MICROSERVICES. IN HIS SPARE TIME MATT LOVES TO CONTINUE HIS EDUCATION AND CONTRIBUTE TO OPEN SOURCE EFFORTS SUCH AS KELP.NET. HIS WEBSITE: WWW.EVOLVEDAISOLUTIONS.COMHIS LINKEDIN PROFILE: [HTTPS://WWW.LINKEDIN.COM/IN/EVOLVEDAI/](https://WWW.LINKEDIN.COM/IN/EVOLVEDAI/)HIS BLOG: [HTTPS://EVOLVEDAISOLUTIONS.COM/BLOG.HTML](https://EVOLVEDAISOLUTIONS.COM/BLOG.HTML)

MACHINE LEARNING WITH MICROSOFT TECHNOLOGIES - LEILA ETAATI

2019-06-12

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 SOLUTION CREATE AND MANAGE MICROSOFT'S TOOL ENVIRONMENTS FOR DEVELOPMENT, TESTING, AND PRODUCTION OF A MACHINE LEARNING PROJECT IMPLEMENT AND DEPLOY SUPERVISED AND UNSUPERVISED LEARNING IN MICROSOFT PRODUCTS SET UP MICROSOFT POWER BI, AZURE DATA LAKE, SQL SERVER, STREAM ANALYTICS, AZURE DATA BRICKS, 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. MODERN COMPUTER VISION WITH

PYTORCH - V KISHORE AYYADEVARA
2020-11-27

GET TO GRIPS WITH DEEP LEARNING TECHNIQUES FOR BUILDING IMAGE PROCESSING APPLICATIONS USING PYTORCH WITH THE HELP OF CODE NOTEBOOKS AND TEST QUESTIONS KEY FEATURES IMPLEMENT SOLUTIONS TO 50 REAL-WORLD COMPUTER VISION APPLICATIONS USING PYTORCH UNDERSTAND THE THEORY AND WORKING MECHANISMS OF NEURAL NETWORK ARCHITECTURES AND THEIR IMPLEMENTATION DISCOVER BEST PRACTICES USING A CUSTOM LIBRARY CREATED ESPECIALLY FOR THIS BOOK BOOK DESCRIPTION DEEP LEARNING IS THE DRIVING FORCE BEHIND MANY RECENT ADVANCES IN VARIOUS COMPUTER VISION (CV) APPLICATIONS. THIS BOOK TAKES A HANDS-ON APPROACH TO HELP YOU TO SOLVE OVER 50 CV PROBLEMS USING PYTORCH 1.X ON REAL-WORLD DATASETS. YOU'LL START BY BUILDING A NEURAL NETWORK (NN) FROM SCRATCH USING NUMPY AND PYTORCH AND DISCOVER BEST PRACTICES FOR TWEAKING ITS HYPERPARAMETERS. YOU'LL THEN PERFORM IMAGE CLASSIFICATION USING CONVOLUTIONAL NEURAL NETWORKS AND TRANSFER LEARNING AND UNDERSTAND HOW THEY WORK. AS YOU PROGRESS, YOU'LL IMPLEMENT MULTIPLE USE CASES OF 2D AND 3D MULTI-OBJECT DETECTION, SEGMENTATION, HUMAN-POSE-ESTIMATION BY LEARNING ABOUT THE R-CNN FAMILY, SSD, YOLO, U-NET

ARCHITECTURES, AND THE DETECTRON2 PLATFORM. THE BOOK WILL ALSO GUIDE YOU IN PERFORMING FACIAL EXPRESSION SWAPPING, GENERATING NEW FACES, AND MANIPULATING FACIAL EXPRESSIONS AS YOU EXPLORE AUTOENCODERS AND MODERN GENERATIVE ADVERSARIAL NETWORKS. YOU'LL LEARN HOW TO COMBINE CV WITH NLP TECHNIQUES, SUCH AS LSTM AND TRANSFORMER, AND RL TECHNIQUES, SUCH AS DEEP Q-LEARNING, TO IMPLEMENT OCR, IMAGE CAPTIONING, OBJECT DETECTION, AND A SELF-DRIVING CAR AGENT. FINALLY, YOU'LL MOVE YOUR NN MODEL TO PRODUCTION ON THE AWS CLOUD. BY THE END OF THIS BOOK, YOU'LL BE ABLE TO LEVERAGE MODERN NN ARCHITECTURES TO SOLVE OVER 50 REAL-WORLD CV PROBLEMS CONFIDENTLY. WHAT YOU WILL LEARN TRAIN A NN FROM SCRATCH WITH NUMPY AND PYTORCH IMPLEMENT 2D AND 3D MULTI-OBJECT DETECTION AND SEGMENTATION GENERATE DIGITS AND DEEP FAKES WITH AUTOENCODERS AND ADVANCED GANs MANIPULATE IMAGES USING CYCLEGAN, PIX2PIXGAN, STYLEGAN2, AND SRGAN COMBINE CV WITH NLP TO PERFORM OCR, IMAGE CAPTIONING, AND OBJECT DETECTION COMBINE CV WITH REINFORCEMENT LEARNING TO BUILD AGENTS THAT PLAY PONG AND SELF-DRIVE A CAR DEPLOY A DEEP LEARNING MODEL ON THE AWS SERVER USING FASTAPI AND DOCKER IMPLEMENT OVER 35 NN ARCHITECTURES AND COMMON OPENCV UTILITIES WHO THIS BOOK IS

FOR THIS BOOK IS FOR BEGINNERS TO PYTORCH AND INTERMEDIATE-LEVEL MACHINE LEARNING PRACTITIONERS WHO ARE LOOKING TO GET WELL-VERSED WITH COMPUTER VISION TECHNIQUES USING DEEP LEARNING AND PYTORCH. IF YOU ARE JUST GETTING STARTED WITH NEURAL NETWORKS, YOU'LL FIND THE USE CASES ACCOMPANIED BY NOTEBOOKS IN GITHUB PRESENT IN THIS BOOK USEFUL. BASIC KNOWLEDGE OF THE PYTHON PROGRAMMING LANGUAGE AND MACHINE LEARNING IS ALL YOU NEED TO GET STARTED WITH THIS BOOK. *PRACTICAL AUTOMATED MACHINE LEARNING ON AZURE* - DEEPAK MUKUNTHU 2019-09-23 DEVELOP SMART APPLICATIONS WITHOUT SPENDING DAYS AND WEEKS BUILDING MACHINE-LEARNING MODELS. WITH THIS PRACTICAL BOOK, YOU'LL LEARN HOW TO APPLY AUTOMATED MACHINE LEARNING (AUTO ML), A PROCESS THAT USES MACHINE LEARNING TO HELP PEOPLE BUILD MACHINE LEARNING MODELS. DEEPAK MUKUNTHU, PARASHAR SHAH, AND WEE HYONG TOK PROVIDE A MIX OF TECHNICAL DEPTH, HANDS-ON EXAMPLES, AND CASE STUDIES THAT SHOW HOW CUSTOMERS ARE SOLVING REAL-WORLD PROBLEMS WITH THIS TECHNOLOGY. BUILDING MACHINE-LEARNING MODELS IS AN ITERATIVE AND TIME-CONSUMING PROCESS. EVEN THOSE WHO KNOW HOW TO CREATE ML MODELS MAY BE LIMITED IN HOW MUCH THEY CAN EXPLORE. ONCE YOU COMPLETE THIS BOOK, YOU'LL UNDERSTAND HOW TO APPLY AUTO ML TO YOUR DATA RIGHT

AWAY. LEARN HOW COMPANIES IN DIFFERENT INDUSTRIES ARE BENEFITING FROM AUTO ML GET STARTED WITH AUTO ML USING AZURE EXPLORE ASPECTS SUCH AS ALGORITHM SELECTION, AUTO FEATURIZATION, AND HYPERPARAMETER TUNING UNDERSTAND HOW DATA ANALYSTS, BI PROFESSIONS, DEVELOPERS CAN USE AUTO ML IN THEIR FAMILIAR TOOLS AND EXPERIENCES LEARN HOW TO GET STARTED USING AUTO ML FOR USE CASES INCLUDING CLASSIFICATION, REGRESSION, AND FORECASTING.

DEEP LEARNING WITH MICROSOFT COGNITIVE TOOLKIT QUICK START GUIDE - WILLEM MEINTS 2019-02-27

LEARN HOW TO TRAIN POPULAR DEEP LEARNING ARCHITECTURES SUCH AS AUTOENCODERS, CONVOLUTIONAL AND RECURRENT NEURAL NETWORKS WHILE DISCOVERING HOW YOU CAN USE DEEP LEARNING MODELS IN YOUR SOFTWARE APPLICATIONS WITH MICROSOFT COGNITIVE TOOLKIT KEY FEATURES UNDERSTAND THE FUNDAMENTALS OF MICROSOFT COGNITIVE TOOLKIT AND SET UP THE DEVELOPMENT ENVIRONMENT TRAIN DIFFERENT TYPES OF NEURAL NETWORKS USING COGNITIVE TOOLKIT AND DEPLOY IT TO PRODUCTION EVALUATE THE PERFORMANCE OF YOUR MODELS AND IMPROVE YOUR DEEP LEARNING SKILLS BOOK DESCRIPTION COGNITIVE TOOLKIT IS A VERY POPULAR AND RECENTLY OPEN SOURCED DEEP LEARNING TOOLKIT BY MICROSOFT. COGNITIVE TOOLKIT IS USED TO TRAIN FAST AND EFFECTIVE DEEP LEARNING

MODELS. THIS BOOK WILL BE A QUICK INTRODUCTION TO USING COGNITIVE TOOLKIT AND WILL TEACH YOU HOW TO TRAIN AND VALIDATE DIFFERENT TYPES OF NEURAL NETWORKS, SUCH AS CONVOLUTIONAL AND RECURRENT NEURAL NETWORKS. THIS BOOK WILL HELP YOU UNDERSTAND THE BASICS OF DEEP LEARNING. YOU WILL LEARN HOW TO USE MICROSOFT COGNITIVE TOOLKIT TO BUILD DEEP LEARNING MODELS AND DISCOVER WHAT MAKES THIS FRAMEWORK UNIQUE SO THAT YOU KNOW WHEN TO USE IT. THIS BOOK WILL BE A QUICK, NO-NONSENSE INTRODUCTION TO THE LIBRARY AND WILL TEACH YOU HOW TO TRAIN DIFFERENT TYPES OF NEURAL NETWORKS, SUCH AS CONVOLUTIONAL NEURAL NETWORKS, RECURRENT NEURAL NETWORKS, AUTOENCODERS, AND MORE, USING COGNITIVE TOOLKIT. THEN WE WILL LOOK AT TWO SCENARIOS IN WHICH DEEP LEARNING CAN BE USED TO ENHANCE HUMAN CAPABILITIES. THE BOOK WILL ALSO DEMONSTRATE HOW TO EVALUATE YOUR MODELS' PERFORMANCE TO ENSURE IT TRAINS AND RUNS SMOOTHLY AND GIVES YOU THE MOST ACCURATE RESULTS. FINALLY, YOU WILL GET A SHORT OVERVIEW OF HOW COGNITIVE TOOLKIT FITS IN TO A DEV OPS ENVIRONMENT WHAT YOU WILL LEARN SET UP YOUR DEEP LEARNING ENVIRONMENT FOR THE COGNITIVE TOOLKIT ON WINDOWS AND LINUX PRE-PROCESS AND FEED YOUR DATA INTO NEURAL NETWORKS USE NEURAL NETWORKS TO MAKE EFFICIENT PREDICTIONS AND

RECOMMENDATIONS TRAIN AND DEPLOY EFFICIENT NEURAL NETWORKS SUCH AS CNN AND RNN DETECT PROBLEMS IN YOUR NEURAL NETWORK USING TENSORBOARD INTEGRATE COGNITIVE TOOLKIT WITH AZURE ML SERVICES FOR EFFECTIVE DEEP LEARNING WHO THIS BOOK IS FOR DATA SCIENTISTS, MACHINE LEARNING DEVELOPERS, AI DEVELOPERS WHO WISH TO TRAIN AND DEPLOY EFFECTIVE DEEP LEARNING MODELS USING MICROSOFT CNTK WILL FIND THIS BOOK TO BE USEFUL. READERS NEED TO HAVE EXPERIENCE IN PYTHON OR SIMILAR OBJECT-ORIENTED LANGUAGE LIKE C# OR JAVA.

MASTERING .NET MACHINE LEARNING - JAMIE DIXON 2016-03-29
MASTER THE ART OF MACHINE LEARNING WITH .NET AND GAIN INSIGHT INTO REAL-WORLD APPLICATIONS ABOUT THIS BOOK BASED ON .NET FRAMEWORK 4.6.1, INCLUDES EXAMPLES ON ASP.NET CORE 1.0 SET UP YOUR BUSINESS APPLICATION TO START USING MACHINE LEARNING TECHNIQUES FAMILIARIZE THE USER WITH SOME OF THE MORE COMMON .NET LIBRARIES FOR MACHINE LEARNING IMPLEMENT SEVERAL COMMON MACHINE LEARNING TECHNIQUES EVALUATE, OPTIMIZE AND ADJUST MACHINE LEARNING MODELS WHO THIS BOOK IS FOR THIS BOOK IS TARGETED AT .NET DEVELOPERS WHO WANT TO BUILD COMPLEX MACHINE LEARNING SYSTEMS. SOME BASIC UNDERSTANDING OF DATA SCIENCE IS REQUIRED. WHAT YOU WILL LEARN WRITE YOUR OWN MACHINE LEARNING APPLICATIONS AND EXPERIMENTS USING THE LATEST .NET

FRAMEWORK, INCLUDING .NET CORE 1.0 SET UP YOUR BUSINESS APPLICATION TO START USING MACHINE LEARNING. ACCURATELY PREDICT THE FUTURE USING REGRESSIONS. DISCOVER HIDDEN PATTERNS USING DECISION TREES. ACQUIRE, PREPARE, AND COMBINE DATASETS TO DRIVE INSIGHTS. OPTIMIZE BUSINESS THROUGHPUT USING BAYES CLASSIFIER. DISCOVER (MORE) HIDDEN PATTERNS USING KNN AND NAIVE BAYES. DISCOVER (EVEN MORE) HIDDEN PATTERNS USING K-MEANS AND PCA. USE NEURAL NETWORKS TO IMPROVE BUSINESS DECISION MAKING WHILE USING THE LATEST ASP.NET TECHNOLOGIES. EXPLORE "BIG DATA", DISTRIBUTED COMPUTING, AND HOW TO DEPLOY MACHINE LEARNING MODELS TO IoT DEVICES - MAKING MACHINES SELF-LEARNING AND ADAPTING ALONG THE WAY, LEARN ABOUT OPEN DATA, BING MAPS, AND MBRACE IN DETAIL .NET IS ONE OF THE WIDELY USED PLATFORMS FOR DEVELOPING APPLICATIONS. WITH THE METEORIC RISE OF MACHINE LEARNING, DEVELOPERS ARE NOW KEEN ON FINDING OUT HOW CAN THEY MAKE THEIR .NET APPLICATIONS SMARTER. ALSO, .NET DEVELOPERS ARE INTERESTED INTO MOVING INTO THE WORLD OF DEVICES AND HOW TO APPLY MACHINE LEARNING TECHNIQUES TO, WELL, MACHINES. THIS BOOK IS PACKED WITH REAL-WORLD EXAMPLES TO EASILY USE MACHINE LEARNING TECHNIQUES IN YOUR BUSINESS APPLICATIONS. YOU WILL BEGIN WITH INTRODUCTION TO F# AND PREPARE YOURSELVES FOR MACHINE LEARNING

USING .NET FRAMEWORK. YOU WILL BE WRITING A SIMPLE LINEAR REGRESSION MODEL USING AN EXAMPLE WHICH PREDICTS SALES OF A PRODUCT. FORMING A BASE WITH THE REGRESSION MODEL, YOU WILL START USING MACHINE LEARNING LIBRARIES AVAILABLE IN .NET FRAMEWORK SUCH AS MATH.NET, NUML.NET AND ACCORD.NET WITH THE HELP OF A SAMPLE APPLICATION. YOU WILL THEN MOVE ON TO WRITING MULTIPLE LINEAR REGRESSIONS AND LOGISTIC REGRESSIONS. YOU WILL LEARN WHAT IS OPEN DATA AND THE AWESOMENESS OF TYPE PROVIDERS. NEXT, YOU ARE GOING TO ADDRESS SOME OF THE ISSUES THAT WE HAVE BEEN GLOSSING OVER SO FAR AND TAKE A DEEP DIVE INTO OBTAINING, CLEANING, AND ORGANIZING OUR DATA. YOU WILL COMPARE THE UTILITY OF BUILDING A KNN AND NAIVE BAYES MODEL TO ACHIEVE BEST POSSIBLE RESULTS. IMPLEMENTATION OF KMEANS AND PCA USING ACCORD.NET AND NUML.NET LIBRARIES IS COVERED WITH THE HELP OF AN EXAMPLE APPLICATION. WE WILL THEN LOOK AT MANY OF ISSUES CONFRONTING CREATING REAL-WORLD MACHINE LEARNING MODELS LIKE OVERFITTING AND HOW TO COMBAT THEM USING CONFUSION MATRIXES, SCALING, NORMALIZATION, AND FEATURE SELECTION. YOU WILL NOW ENTER INTO THE WORLD OF NEURAL NETWORKS AND MOVE YOUR LINE OF BUSINESS APPLICATION TO A HYBRID SCIENTIFIC APPLICATION. AFTER YOU HAVE COVERED ALL THE ABOVE MACHINE

LEARNING MODELS, YOU WILL SEE HOW TO DEAL WITH VERY LARGE DATASETS USING MBRACE AND HOW TO DEPLOY MACHINE LEARNING MODELS TO INTERNET OF THING (IoT) DEVICES SO THAT THE MACHINE CAN LEARN AND ADAPT ON THE FLY STYLE AND APPROACH THIS BOOK WILL GUIDE YOU IN LEARNING EVERYTHING ABOUT HOW TO TACKLE THE FLOOD OF DATA BEING ENCOUNTERED THESE DAYS IN YOUR .NET APPLICATIONS WITH THE HELP OF POPULAR MACHINE LEARNING LIBRARIES OFFERED BY THE .NET FRAMEWORK. INTRODUCING MACHINE LEARNING - DINO ESPOSITO 2020-02-05 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 -
ADNAN MASOOD 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 TENSORFLOW AND CNTK TO GIVE YOU A BROADER PERSPECTIVE OF THE DEEP LEARNING ECOSYSTEM. WHAT YOU WILL LEARN BUILD 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.

DEEP LEARNING FOR COMPUTER VISION

- RAJALINGAPPAA SHANMUGAMANI
2018-01-23

LEARN HOW TO MODEL AND TRAIN ADVANCED NEURAL NETWORKS TO IMPLEMENT A VARIETY OF COMPUTER VISION TASKS KEY FEATURES TRAIN DIFFERENT KINDS OF DEEP LEARNING MODEL FROM SCRATCH TO SOLVE SPECIFIC PROBLEMS IN COMPUTER VISION COMBINE THE POWER OF PYTHON, KERAS, AND TENSORFLOW TO BUILD DEEP LEARNING MODELS FOR OBJECT DETECTION, IMAGE CLASSIFICATION, SIMILARITY LEARNING, IMAGE CAPTIONING, AND MORE INCLUDES TIPS ON OPTIMIZING AND IMPROVING THE PERFORMANCE OF YOUR MODELS UNDER VARIOUS CONSTRAINTS BOOK DESCRIPTION DEEP LEARNING HAS SHOWN ITS POWER IN SEVERAL APPLICATION AREAS OF ARTIFICIAL INTELLIGENCE, ESPECIALLY IN COMPUTER VISION. COMPUTER VISION IS THE SCIENCE OF UNDERSTANDING AND MANIPULATING IMAGES, AND FINDS ENORMOUS APPLICATIONS IN THE AREAS OF ROBOTICS, AUTOMATION, AND SO ON. THIS BOOK WILL ALSO SHOW YOU, WITH PRACTICAL EXAMPLES, HOW TO DEVELOP COMPUTER VISION APPLICATIONS BY LEVERAGING THE POWER OF DEEP LEARNING. IN THIS BOOK, YOU WILL LEARN DIFFERENT TECHNIQUES RELATED TO OBJECT CLASSIFICATION, OBJECT DETECTION, IMAGE SEGMENTATION, CAPTIONING,

IMAGE GENERATION, FACE ANALYSIS, AND MORE. YOU WILL ALSO EXPLORE THEIR APPLICATIONS USING POPULAR PYTHON LIBRARIES SUCH AS TENSORFLOW AND KERAS. THIS BOOK WILL HELP YOU MASTER STATE-OF-THE-ART, DEEP LEARNING ALGORITHMS AND THEIR IMPLEMENTATION. WHAT YOU WILL LEARN SET UP AN ENVIRONMENT FOR DEEP LEARNING WITH PYTHON, TENSORFLOW, AND KERAS DEFINE AND TRAIN A MODEL FOR IMAGE AND VIDEO CLASSIFICATION USE FEATURES FROM A PRE-TRAINED CONVOLUTIONAL NEURAL NETWORK MODEL FOR IMAGE RETRIEVAL UNDERSTAND AND IMPLEMENT OBJECT DETECTION USING THE REAL-WORLD PEDESTRIAN DETECTION SCENARIO LEARN ABOUT VARIOUS PROBLEMS IN IMAGE CAPTIONING AND HOW TO OVERCOME THEM BY TRAINING IMAGES AND TEXT TOGETHER IMPLEMENT SIMILARITY MATCHING AND TRAIN A MODEL FOR FACE RECOGNITION UNDERSTAND THE CONCEPT OF GENERATIVE MODELS AND USE THEM FOR IMAGE GENERATION DEPLOY YOUR DEEP LEARNING MODELS AND OPTIMIZE THEM FOR HIGH PERFORMANCE WHO THIS BOOK IS FOR THIS BOOK IS TARGETED AT DATA SCIENTISTS AND COMPUTER VISION PRACTITIONERS WHO WISH TO APPLY THE CONCEPTS OF DEEP LEARNING TO OVERCOME ANY PROBLEM RELATED TO COMPUTER VISION. A BASIC KNOWLEDGE OF PROGRAMMING IN PYTHON—AND SOME UNDERSTANDING OF MACHINE LEARNING CONCEPTS—IS REQUIRED TO GET THE BEST OUT OF

THIS BOOK.

DEEP LEARNING - IAN GOODFELLOW
2016-11-10

AN INTRODUCTION TO A BROAD RANGE OF TOPICS IN DEEP LEARNING, COVERING MATHEMATICAL AND CONCEPTUAL BACKGROUND, DEEP LEARNING TECHNIQUES USED IN INDUSTRY, AND RESEARCH PERSPECTIVES. "WRITTEN BY THREE EXPERTS IN THE FIELD, DEEP LEARNING IS THE ONLY COMPREHENSIVE BOOK ON THE SUBJECT." —ELON MUSK, COCHAIR OF OPENAI; COFOUNDER AND CEO OF TESLA AND SPACEX DEEP LEARNING IS A FORM OF MACHINE LEARNING THAT ENABLES COMPUTERS TO LEARN FROM EXPERIENCE AND UNDERSTAND THE WORLD IN TERMS OF A HIERARCHY OF CONCEPTS. BECAUSE THE COMPUTER GATHERS KNOWLEDGE FROM EXPERIENCE, THERE IS NO NEED FOR A HUMAN COMPUTER OPERATOR TO FORMALLY SPECIFY ALL THE KNOWLEDGE THAT THE COMPUTER NEEDS. THE HIERARCHY OF CONCEPTS ALLOWS THE COMPUTER TO LEARN COMPLICATED CONCEPTS BY BUILDING THEM OUT OF SIMPLER ONES; A GRAPH OF THESE HIERARCHIES WOULD BE MANY LAYERS DEEP. THIS BOOK INTRODUCES A BROAD RANGE OF TOPICS IN DEEP LEARNING. THE TEXT OFFERS MATHEMATICAL AND CONCEPTUAL BACKGROUND, COVERING RELEVANT CONCEPTS IN LINEAR ALGEBRA, PROBABILITY THEORY AND INFORMATION THEORY, NUMERICAL COMPUTATION, AND MACHINE LEARNING. IT DESCRIBES DEEP LEARNING TECHNIQUES USED BY PRACTITIONERS IN INDUSTRY, INCLUDING DEEP

FEEDFORWARD NETWORKS, REGULARIZATION, OPTIMIZATION ALGORITHMS, CONVOLUTIONAL NETWORKS, SEQUENCE MODELING, AND PRACTICAL METHODOLOGY; AND IT SURVEYS SUCH APPLICATIONS AS NATURAL LANGUAGE PROCESSING, SPEECH RECOGNITION, COMPUTER VISION, ONLINE RECOMMENDATION SYSTEMS, BIOINFORMATICS, AND VIDEOGAMES. FINALLY, THE BOOK OFFERS RESEARCH PERSPECTIVES, COVERING SUCH THEORETICAL TOPICS AS LINEAR FACTOR MODELS, AUTOENCODERS, REPRESENTATION LEARNING, STRUCTURED PROBABILISTIC MODELS, MONTE CARLO METHODS, THE PARTITION FUNCTION, APPROXIMATE INFERENCE, AND DEEP GENERATIVE MODELS. DEEP LEARNING CAN BE USED BY UNDERGRADUATE OR GRADUATE STUDENTS PLANNING CAREERS IN EITHER INDUSTRY OR RESEARCH, AND BY SOFTWARE ENGINEERS WHO WANT TO BEGIN USING DEEP LEARNING IN THEIR PRODUCTS OR PLATFORMS. A WEBSITE OFFERS SUPPLEMENTARY MATERIAL FOR BOTH READERS AND INSTRUCTORS. *HANDS-ON MACHINE LEARNING WITH ML.NET* - JARRED CAPELLMAN
2020-03-27
CREATE, TRAIN, AND EVALUATE VARIOUS MACHINE LEARNING MODELS SUCH AS REGRESSION, CLASSIFICATION, AND CLUSTERING USING ML.NET, ENTITY FRAMEWORK, AND ASP.NET CORE KEY FEATURES GET WELL-VERSED WITH THE ML.NET FRAMEWORK AND ITS COMPONENTS AND APIS USING PRACTICAL EXAMPLES LEARN HOW TO

BUILD, TRAIN, AND EVALUATE POPULAR MACHINE LEARNING ALGORITHMS WITH ML.NET OFFERINGS EXTEND YOUR EXISTING MACHINE LEARNING MODELS BY INTEGRATING WITH TENSORFLOW AND OTHER LIBRARIES

BOOK DESCRIPTION

MACHINE LEARNING (ML) IS WIDELY USED IN MANY INDUSTRIES SUCH AS SCIENCE, HEALTHCARE, AND RESEARCH AND ITS POPULARITY IS ONLY GROWING. IN MARCH 2018, MICROSOFT INTRODUCED ML.NET TO HELP .NET ENTHUSIASTS IN WORKING WITH ML. WITH THIS BOOK, YOU'LL EXPLORE HOW TO BUILD ML.NET APPLICATIONS WITH THE VARIOUS ML MODELS AVAILABLE USING C# CODE. THE BOOK STARTS BY GIVING YOU AN OVERVIEW OF ML AND THE TYPES OF ML ALGORITHMS USED, ALONG WITH COVERING WHAT ML.NET IS AND WHY YOU NEED IT TO BUILD ML APPS. YOU'LL THEN EXPLORE THE ML.NET FRAMEWORK, ITS COMPONENTS, AND APIS. THE BOOK WILL SERVE AS A PRACTICAL GUIDE TO HELPING YOU BUILD SMART APPS USING THE ML.NET LIBRARY. YOU'LL GRADUALLY BECOME WELL VERSED IN HOW TO IMPLEMENT ML ALGORITHMS SUCH AS REGRESSION, CLASSIFICATION, AND CLUSTERING WITH REAL-WORLD EXAMPLES AND DATASETS. EACH CHAPTER WILL COVER THE PRACTICAL IMPLEMENTATION, SHOWING YOU HOW TO IMPLEMENT ML WITHIN .NET APPLICATIONS. YOU'LL ALSO LEARN TO INTEGRATE TENSORFLOW IN ML.NET APPLICATIONS. LATER YOU'LL DISCOVER HOW TO STORE THE

REGRESSION MODEL HOUSING PRICE PREDICTION RESULT TO THE DATABASE AND DISPLAY THE REAL-TIME PREDICTED RESULTS FROM THE DATABASE ON YOUR WEB APPLICATION USING ASP.NET CORE BLAZOR AND SIGNALR. BY THE END OF THIS BOOK, YOU'LL HAVE LEARNED HOW TO CONFIDENTLY PERFORM BASIC TO ADVANCED-LEVEL MACHINE LEARNING TASKS IN ML.NET. WHAT YOU WILL LEARN UNDERSTAND THE FRAMEWORK, COMPONENTS, AND APIS OF ML.NET USING C# DEVELOP REGRESSION MODELS USING ML.NET FOR EMPLOYEE ATTRITION AND FILE CLASSIFICATION EVALUATE CLASSIFICATION MODELS FOR SENTIMENT PREDICTION OF RESTAURANT REVIEWS WORK WITH CLUSTERING MODELS FOR FILE TYPE CLASSIFICATIONS USE ANOMALY DETECTION TO FIND ANOMALIES IN BOTH NETWORK TRAFFIC AND LOGIN HISTORY WORK WITH ASP.NET CORE BLAZOR TO CREATE AN ML.NET ENABLED WEB APPLICATION INTEGRATE PRE-TRAINED TENSORFLOW AND ONNX MODELS IN A WPF ML.NET APPLICATION FOR IMAGE CLASSIFICATION AND OBJECT DETECTION

WHO THIS BOOK IS FOR

IF YOU ARE A .NET DEVELOPER WHO WANTS TO IMPLEMENT MACHINE LEARNING MODELS USING ML.NET, THEN THIS BOOK IS FOR YOU. THIS BOOK WILL ALSO BE BENEFICIAL FOR DATA SCIENTISTS AND MACHINE LEARNING DEVELOPERS WHO ARE LOOKING FOR EFFECTIVE TOOLS TO IMPLEMENT VARIOUS MACHINE LEARNING

ALGORITHMS. A BASIC UNDERSTANDING OF C# OR .NET IS MANDATORY TO GRASP THE CONCEPTS COVERED IN THIS BOOK EFFECTIVELY.

MASTERING AZURE MACHINE LEARNING - CHRISTOPH KERNER 2020-04-30

MASTER EXPERT TECHNIQUES FOR BUILDING AUTOMATED AND HIGHLY SCALABLE END-TO-END MACHINE LEARNING MODELS AND PIPELINES IN AZURE USING TENSORFLOW, SPARK, AND KUBERNETES KEY FEATURES MAKE SENSE OF DATA ON THE CLOUD BY IMPLEMENTING ADVANCED ANALYTICS TRAIN AND OPTIMIZE ADVANCED DEEP LEARNING MODELS EFFICIENTLY ON SPARK USING AZURE DATABRICKS DEPLOY MACHINE LEARNING MODELS FOR BATCH AND REAL-TIME SCORING WITH AZURE KUBERNETES SERVICE (AKS) BOOK DESCRIPTION THE INCREASE BEING SEEN IN DATA VOLUME TODAY REQUIRES DISTRIBUTED SYSTEMS, POWERFUL ALGORITHMS, AND SCALABLE CLOUD INFRASTRUCTURE TO COMPUTE INSIGHTS AND TRAIN AND DEPLOY MACHINE LEARNING (ML) MODELS. THIS BOOK WILL HELP YOU IMPROVE YOUR KNOWLEDGE OF BUILDING ML MODELS USING AZURE AND END-TO-END ML PIPELINES ON THE CLOUD. THE BOOK STARTS WITH AN OVERVIEW OF AN END-TO-END ML PROJECT AND A GUIDE ON HOW TO CHOOSE THE RIGHT AZURE SERVICE FOR DIFFERENT ML TASKS. IT THEN FOCUSES ON AZURE MACHINE LEARNING AND TAKES YOU THROUGH THE PROCESS OF DATA EXPERIMENTATION, DATA PREPARATION, AND FEATURE ENGINEERING USING AZURE

MACHINE LEARNING AND PYTHON. YOU'LL LEARN ADVANCED FEATURE EXTRACTION TECHNIQUES USING NATURAL LANGUAGE PROCESSING (NLP), CLASSICAL ML TECHNIQUES, AND THE SECRETS OF BOTH A GREAT RECOMMENDATION ENGINE AND A PERFORMANT COMPUTER VISION MODEL USING DEEP LEARNING METHODS. YOU'LL ALSO EXPLORE HOW TO TRAIN, OPTIMIZE, AND TUNE MODELS USING AZURE AUTOMATED MACHINE LEARNING AND HYPERDRIVE, AND PERFORM DISTRIBUTED TRAINING ON AZURE. THEN, YOU'LL LEARN DIFFERENT DEPLOYMENT AND MONITORING TECHNIQUES USING AZURE KUBERNETES SERVICES WITH AZURE MACHINE LEARNING, ALONG WITH THE BASICS OF MLOPS—DEVOPS FOR ML TO AUTOMATE YOUR ML PROCESS AS CI/CD PIPELINE. BY THE END OF THIS BOOK, YOU'LL HAVE MASTERED AZURE MACHINE LEARNING AND BE ABLE TO CONFIDENTLY DESIGN, BUILD AND OPERATE SCALABLE ML PIPELINES IN AZURE. WHAT YOU WILL LEARN SET UP YOUR AZURE MACHINE LEARNING WORKSPACE FOR DATA EXPERIMENTATION AND VISUALIZATION PERFORM ETL, DATA PREPARATION, AND FEATURE EXTRACTION USING AZURE BEST PRACTICES IMPLEMENT ADVANCED FEATURE EXTRACTION USING NLP AND WORD EMBEDDINGS TRAIN GRADIENT BOOSTED TREE-ENSEMBLES, RECOMMENDATION ENGINES AND DEEP NEURAL NETWORKS ON AZURE MACHINE LEARNING USE HYPERPARAMETER TUNING

AND AZURE AUTOMATED MACHINE LEARNING TO OPTIMIZE YOUR ML MODELS EMPLOY DISTRIBUTED ML ON GPU CLUSTERS USING HOROVOD IN AZURE MACHINE LEARNING DEPLOY, OPERATE AND MANAGE YOUR ML MODELS AT SCALE AUTOMATED YOUR END-TO-END ML PROCESS AS CI/CD PIPELINES FOR MLOPS WHO THIS BOOK IS FOR THIS MACHINE LEARNING BOOK IS FOR DATA PROFESSIONALS, DATA ANALYSTS, DATA ENGINEERS, DATA SCIENTISTS, OR MACHINE LEARNING DEVELOPERS WHO WANT TO MASTER SCALABLE CLOUD-BASED MACHINE LEARNING ARCHITECTURES IN AZURE. THIS BOOK WILL HELP YOU USE ADVANCED AZURE SERVICES TO BUILD INTELLIGENT MACHINE LEARNING APPLICATIONS. A BASIC UNDERSTANDING OF PYTHON AND WORKING KNOWLEDGE OF MACHINE LEARNING ARE MANDATORY.

AUTOMATED MACHINE LEARNING WITH MICROSOFT AZURE - DENNIS MICHAEL SAWYERS 2021-04-23

A PRACTICAL, STEP-BY-STEP GUIDE TO USING MICROSOFT'S AUTO ML TECHNOLOGY ON THE AZURE MACHINE LEARNING SERVICE FOR DEVELOPERS AND DATA SCIENTISTS WORKING WITH THE PYTHON PROGRAMMING LANGUAGE KEY FEATURES CREATE, DEPLOY, PRODUCTIONALIZE, AND SCALE AUTOMATED MACHINE LEARNING SOLUTIONS ON MICROSOFT AZURE IMPROVE THE ACCURACY OF YOUR ML MODELS THROUGH AUTOMATIC DATA FEATURIZATION AND MODEL TRAINING INCREASE

PRODUCTIVITY IN YOUR ORGANIZATION BY USING ARTIFICIAL INTELLIGENCE TO SOLVE COMMON PROBLEMS BOOK DESCRIPTION AUTOMATED MACHINE LEARNING WITH MICROSOFT AZURE WILL TEACH YOU HOW TO BUILD HIGH-PERFORMING, ACCURATE MACHINE LEARNING MODELS IN RECORD TIME. IT WILL EQUIP YOU WITH THE KNOWLEDGE AND SKILLS TO EASILY HARNESS THE POWER OF ARTIFICIAL INTELLIGENCE AND INCREASE THE PRODUCTIVITY AND PROFITABILITY OF YOUR BUSINESS. GUIDED USER INTERFACES (GUIs) ENABLE BOTH NOVICES AND SEASONED DATA SCIENTISTS TO EASILY TRAIN AND DEPLOY MACHINE LEARNING SOLUTIONS TO PRODUCTION. USING A CAREFUL, STEP-BY-STEP APPROACH, THIS BOOK WILL TEACH YOU HOW TO USE AZURE AUTO ML WITH A GUI AS WELL AS THE AZURE ML PYTHON SOFTWARE DEVELOPMENT KIT (SDK). FIRST, YOU'LL LEARN HOW TO PREPARE DATA, TRAIN MODELS, AND REGISTER THEM TO YOUR AZURE MACHINE LEARNING WORKSPACE. YOU'LL THEN DISCOVER HOW TO TAKE THOSE MODELS AND USE THEM TO CREATE BOTH AUTOMATED BATCH SOLUTIONS USING MACHINE LEARNING PIPELINES AND REAL-TIME SCORING SOLUTIONS USING AZURE KUBERNETES SERVICE (AKS). FINALLY, YOU WILL BE ABLE TO USE AUTO ML ON YOUR OWN DATA TO NOT ONLY TRAIN REGRESSION, CLASSIFICATION, AND FORECASTING MODELS BUT ALSO USE THEM TO SOLVE A WIDE VARIETY OF BUSINESS PROBLEMS. BY THE END OF THIS AZURE BOOK, YOU'LL BE ABLE TO

SHOW YOUR BUSINESS PARTNERS EXACTLY HOW YOUR ML MODELS ARE MAKING PREDICTIONS THROUGH AUTOMATICALLY GENERATED CHARTS AND GRAPHS, EARNING THEIR TRUST AND RESPECT. WHAT YOU WILL LEARN UNDERSTAND HOW TO TRAIN CLASSIFICATION, REGRESSION, AND FORECASTING ML ALGORITHMS WITH AZURE AUTO ML PREPARE DATA FOR AZURE AUTO ML TO ENSURE SMOOTH MODEL TRAINING AND DEPLOYMENT ADJUST AUTO ML CONFIGURATION SETTINGS TO MAKE YOUR MODELS AS ACCURATE AS POSSIBLE DETERMINE WHEN TO USE A BATCH-SCORING SOLUTION VERSUS A REAL-TIME SCORING SOLUTION PRODUCTIONALIZE YOUR AUTO ML AND DISCOVER HOW TO QUICKLY DELIVER VALUE CREATE REAL-TIME SCORING SOLUTIONS WITH AUTO ML AND AZURE KUBERNETES SERVICE TRAIN A LARGE NUMBER OF AUTO ML MODELS AT ONCE USING THE AZURE ML PYTHON SDK WHO THIS BOOK IS FOR DATA SCIENTISTS, ASPIRING DATA SCIENTISTS, MACHINE LEARNING ENGINEERS, OR ANYONE INTERESTED IN APPLYING ARTIFICIAL INTELLIGENCE OR MACHINE LEARNING IN THEIR BUSINESS WILL FIND THIS MACHINE LEARNING BOOK USEFUL. YOU NEED TO HAVE BEGINNER-LEVEL KNOWLEDGE OF ARTIFICIAL INTELLIGENCE AND A TECHNICAL BACKGROUND IN COMPUTER SCIENCE, STATISTICS, OR INFORMATION TECHNOLOGY BEFORE GETTING STARTED. FAMILIARITY WITH PYTHON WILL HELP YOU IMPLEMENT THE MORE ADVANCED

FEATURES FOUND IN THE CHAPTERS, BUT EVEN DATA ANALYSTS AND SQL EXPERTS WILL BE ABLE TO TRAIN ML MODELS AFTER FINISHING THIS BOOK. *RIGHTING SOFTWARE* - JUVAL L^[?] WY 2019-11-29
RIGHT YOUR SOFTWARE AND TRANSFORM YOUR CAREER *RIGHTING SOFTWARE* PRESENTS THE PROVEN, STRUCTURED, AND HIGHLY ENGINEERED APPROACH TO SOFTWARE DESIGN THAT RENOWNED ARCHITECT JUVAL L^[?] WY HAS PRACTICED AND TAUGHT AROUND THE WORLD. ALTHOUGH COMPANIES OF EVERY KIND HAVE SUCCESSFULLY IMPLEMENTED HIS ORIGINAL DESIGN IDEAS ACROSS HUNDREDS OF SYSTEMS, THESE INSIGHTS HAVE NEVER BEFORE APPEARED IN PRINT. BASED ON FIRST PRINCIPLES IN SOFTWARE ENGINEERING AND A COMPREHENSIVE SET OF MATCHING TOOLS AND TECHNIQUES, L^[?] WY'S METHODOLOGY INTEGRATES SYSTEM DESIGN AND PROJECT DESIGN. FIRST, HE DESCRIBES THE PRIMARY AREA WHERE MANY SOFTWARE ARCHITECTS FAIL AND SHOWS HOW TO DECOMPOSE A SYSTEM INTO SMALLER BUILDING BLOCKS OR SERVICES, BASED ON VOLATILITY. NEXT, HE SHOWS HOW TO FLOW AN EFFECTIVE PROJECT DESIGN FROM THE SYSTEM DESIGN; HOW TO ACCURATELY CALCULATE THE PROJECT DURATION, COST, AND RISK; AND HOW TO DEVISE MULTIPLE EXECUTION OPTIONS. THE METHOD AND PRINCIPLES IN *RIGHTING SOFTWARE* APPLY REGARDLESS OF YOUR PROJECT AND COMPANY SIZE, TECHNOLOGY, PLATFORM, OR INDUSTRY. L^[?] WY STARTS THE READER

ON A JOURNEY THAT ADDRESSES THE CRITICAL CHALLENGES OF SOFTWARE DEVELOPMENT TODAY BY RIGHTING SOFTWARE SYSTEMS AND PROJECTS AS WELL AS CAREERS—AND POSSIBLY THE SOFTWARE INDUSTRY AS A WHOLE. SOFTWARE PROFESSIONALS, ARCHITECTS, PROJECT LEADS, OR MANAGERS AT ANY STAGE OF THEIR CAREER WILL BENEFIT GREATLY FROM THIS BOOK, WHICH PROVIDES GUIDANCE AND KNOWLEDGE THAT WOULD OTHERWISE TAKE DECADES AND MANY PROJECTS TO ACQUIRE. REGISTER YOUR BOOK FOR CONVENIENT ACCESS TO DOWNLOADS, UPDATES, AND/OR CORRECTIONS AS THEY BECOME AVAILABLE. SEE INSIDE BOOK FOR DETAILS.

DIVE INTO DEEP LEARNING - JOANNE QUINN 2019-07-15

THE LEADING EXPERTS IN SYSTEM CHANGE AND LEARNING, WITH THEIR SCHOOL-BASED PARTNERS AROUND THE WORLD, HAVE CREATED THIS ESSENTIAL COMPANION TO THEIR RUNAWAY BEST-SELLER, *DEEP LEARNING: ENGAGE THE WORLD CHANGE THE WORLD*. THIS HANDS-ON GUIDE PROVIDES A ROADMAP FOR BUILDING CAPACITY IN TEACHERS, SCHOOLS, DISTRICTS, AND SYSTEMS TO DESIGN DEEP LEARNING, MEASURE PROGRESS, AND ASSESS CONDITIONS NEEDED TO ACTIVATE AND SUSTAIN INNOVATION. *DIVE INTO DEEP LEARNING: TOOLS FOR ENGAGEMENT* IS RICH WITH RESOURCES EDUCATORS NEED TO CONSTRUCT AND DRIVE MEANINGFUL DEEP LEARNING EXPERIENCES IN ORDER TO DEVELOP THE KIND OF MINDSET AND

KNOW-HOW THAT IS CRUCIAL TO BECOMING A PROBLEM-SOLVING CHANGE AGENT IN OUR GLOBAL SOCIETY. DESIGNED IN FULL COLOR, THIS EASY-TO-USE GUIDE IS LOADED WITH TOOLS, TIPS, PROTOCOLS, AND REAL-WORLD EXAMPLES. IT INCLUDES: • A FRAMEWORK FOR DEEP LEARNING THAT PROVIDES A PATHWAY TO DEVELOP THE SIX GLOBAL COMPETENCIES NEEDED TO FLOURISH IN A COMPLEX WORLD — CHARACTER, CITIZENSHIP, COLLABORATION, COMMUNICATION, CREATIVITY, AND CRITICAL THINKING. • LEARNING PROGRESSIONS TO HELP EDUCATORS ANALYZE STUDENT WORK AND MEASURE PROGRESS. • LEARNING DESIGN RUBRICS, TEMPLATES AND EXAMPLES FOR INCORPORATING THE FOUR ELEMENTS OF LEARNING DESIGN: LEARNING PARTNERSHIPS, PEDAGOGICAL PRACTICES, LEARNING ENVIRONMENTS, AND LEVERAGING DIGITAL. • CONDITIONS RUBRICS, TEACHER SELF-ASSESSMENT TOOLS, AND PLANNING GUIDES TO HELP EDUCATORS BUILD, MOBILIZE, AND SUSTAIN DEEP LEARNING IN SCHOOLS AND DISTRICTS. LEARN ABOUT, IMPROVE, AND EXPAND YOUR WORLD OF LEARNING. PUT THE JOY BACK INTO LEARNING FOR STUDENTS AND ADULTS ALIKE. *DIVE INTO DEEP LEARNING* TO CREATE LEARNING EXPERIENCES THAT GIVE PURPOSE, UNLEASH STUDENT POTENTIAL, AND TRANSFORM NOT ONLY LEARNING, BUT LIFE ITSELF.

PREDICTIVE ANALYTICS WITH MICROSOFT AZURE MACHINE LEARNING - VALENTINE FONTAMA 2014-11-25
DATA SCIENCE AND MACHINE LEARNING

ARE IN HIGH DEMAND, AS CUSTOMERS ARE INCREASINGLY LOOKING FOR WAYS TO GLEAN INSIGHTS FROM ALL THEIR DATA. MORE CUSTOMERS NOW REALIZE THAT BUSINESS INTELLIGENCE IS NOT ENOUGH AS THE VOLUME, SPEED AND COMPLEXITY OF DATA NOW DEFY TRADITIONAL ANALYTICS TOOLS. WHILE BUSINESS INTELLIGENCE ADDRESSES DESCRIPTIVE AND DIAGNOSTIC ANALYSIS, DATA SCIENCE UNLOCKS NEW OPPORTUNITIES THROUGH PREDICTIVE AND PRESCRIPTIVE ANALYSIS. THE PURPOSE OF THIS BOOK IS TO PROVIDE A GENTLE AND INSTRUCTIONALLY ORGANIZED INTRODUCTION TO THE FIELD OF DATA SCIENCE AND MACHINE LEARNING, WITH A FOCUS ON BUILDING AND DEPLOYING PREDICTIVE MODELS. THE BOOK ALSO PROVIDES A THOROUGH OVERVIEW OF THE MICROSOFT AZURE MACHINE LEARNING SERVICE USING TASK ORIENTED DESCRIPTIONS AND CONCRETE END-TO-END EXAMPLES, SUFFICIENT TO ENSURE THE READER CAN IMMEDIATELY BEGIN USING THIS IMPORTANT NEW SERVICE. IT DESCRIBES ALL ASPECTS OF THE SERVICE FROM DATA INGRESS TO APPLYING MACHINE LEARNING AND EVALUATING THE RESULTING MODEL, TO DEPLOYING THE RESULTING MODEL AS A MACHINE LEARNING WEB SERVICE. FINALLY, THIS BOOK ATTEMPTS TO HAVE MINIMAL DEPENDENCIES, SO THAT YOU CAN FAIRLY EASILY PICK AND CHOOSE CHAPTERS TO READ. WHEN DEPENDENCIES DO EXIST, THEY ARE LISTED AT THE START AND END OF THE CHAPTER. THE SIMPLICITY OF THIS NEW

SERVICE FROM MICROSOFT WILL HELP TO TAKE DATA SCIENCE AND MACHINE LEARNING TO A MUCH BROADER AUDIENCE THAN EXISTING PRODUCTS IN THIS SPACE. LEARN HOW YOU CAN QUICKLY BUILD AND DEPLOY SOPHISTICATED PREDICTIVE MODELS AS MACHINE LEARNING WEB SERVICES WITH THE NEW AZURE MACHINE LEARNING SERVICE FROM MICROSOFT.

AUTOMATIC SPEECH RECOGNITION - DONG YU 2014-11-11

THIS BOOK PROVIDES A COMPREHENSIVE OVERVIEW OF THE RECENT ADVANCEMENT IN THE FIELD OF AUTOMATIC SPEECH RECOGNITION WITH A FOCUS ON DEEP LEARNING MODELS INCLUDING DEEP NEURAL NETWORKS AND MANY OF THEIR VARIANTS. THIS IS THE FIRST AUTOMATIC SPEECH RECOGNITION BOOK DEDICATED TO THE DEEP LEARNING APPROACH. IN ADDITION TO THE RIGOROUS MATHEMATICAL TREATMENT OF THE SUBJECT, THE BOOK ALSO PRESENTS INSIGHTS AND THEORETICAL FOUNDATION OF A SERIES OF HIGHLY SUCCESSFUL DEEP LEARNING MODELS. PATTERN RECOGNITION AND MACHINE LEARNING - CHRISTOPHER M. BISHOP 2016-08-23

THIS IS THE FIRST TEXTBOOK ON PATTERN RECOGNITION TO PRESENT THE BAYESIAN VIEWPOINT. THE BOOK PRESENTS APPROXIMATE INFERENCE ALGORITHMS THAT PERMIT FAST APPROXIMATE ANSWERS IN SITUATIONS WHERE EXACT ANSWERS ARE NOT FEASIBLE. IT USES GRAPHICAL MODELS TO DESCRIBE PROBABILITY DISTRIBUTIONS WHEN NO OTHER BOOKS

APPLY GRAPHICAL MODELS TO MACHINE LEARNING. NO PREVIOUS KNOWLEDGE OF PATTERN RECOGNITION OR MACHINE LEARNING CONCEPTS IS ASSUMED. FAMILIARITY WITH MULTIVARIATE CALCULUS AND BASIC LINEAR ALGEBRA IS REQUIRED, AND SOME EXPERIENCE IN THE USE OF PROBABILITIES WOULD BE HELPFUL THOUGH NOT ESSENTIAL AS THE BOOK INCLUDES A SELF-CONTAINED INTRODUCTION TO BASIC PROBABILITY THEORY.

PROGRAMMING ML.NET - DINO

ESPOSITO 2021-09-07

WITH .NET 5'S ML.NET AND PROGRAMMING ML.NET, ANY MICROSOFT .NET DEVELOPER CAN SOLVE SERIOUS MACHINE LEARNING PROBLEMS, INCREASING THEIR VALUE AND COMPETITIVENESS IN SOME OF TODAY'S FASTEST-GROWING AREAS OF SOFTWARE DEVELOPMENT. WORLD-RENOUNDED MICROSOFT DEVELOPMENT EXPERT DINO ESPOSITO COVERS EVERYTHING YOU NEED TO KNOW ABOUT ML.NET, THE MACHINE LEARNING PIPELINE, AND REAL-WORLD MACHINE LEARNING SOLUTIONS DEVELOPMENT. MODELED ON HIS POPULAR PROGRAMMING ASP.NET BOOKS, THIS GUIDE TAKES THE SAME SCENARIO-BASED APPROACH MICROSOFT'S TEAM USED TO BUILD THE ML.NET FRAMEWORK ITSELF. ESPOSITO PRESENTS AND ILLUMINATES ML.NET'S DEDICATED MINI-FRAMEWORKS ("ML TASKS") FOR SPECIFIC CLASSES OF PROBLEMS, AND DRAWS ON PERSONAL EXPERIENCE TO HELP DEVELOPERS APPLY THESE IN THE REAL WORLD, WHERE A

PROBLEM'S COMPLEXITY CAN VARY WIDELY BASED ON DATA AVAILABILITY OR THE SPECIFIC RESULTS YOU NEED. IN A FULL SECTION ON ML.NET NEURAL NETWORKS, ESPOSITO INTRODUCES KEY CONCEPTS AND PRESENTS REALISTIC EXAMPLES YOU CAN REUSE IN YOUR OWN APPLICATIONS. ALONG THE WAY, ESPOSITO ALSO SHOWS HOW TO LEVERAGE POWERFUL PYTHON-BASED MACHINE LEARNING TOOLS IN THE .NET ENVIRONMENT. PROGRAMMING ML.NET WILL HELP YOU ADD MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE TO YOUR TOOL BELT, WHETHER YOU HAVE A BACKGROUND IN THESE HIGH-DEMAND TECHNOLOGIES OR NOT.

MICROSOFT AZURE MACHINE LEARNING

- SUMIT MUND 2015-06-16

THIS BOOK PROVIDES YOU WITH THE SKILLS NECESSARY TO GET STARTED WITH AZURE MACHINE LEARNING TO BUILD PREDICTIVE MODELS AS QUICKLY AS POSSIBLE, IN A VERY INTUITIVE WAY, WHETHER YOU ARE COMPLETELY NEW TO PREDICTIVE ANALYSIS OR AN EXISTING PRACTITIONER. THE BOOK STARTS BY EXPLORING ML STUDIO, THE BROWSER-BASED DEVELOPMENT ENVIRONMENT, AND EXPLORES THE FIRST STEP—DATA EXPLORATION AND VISUALIZATION. YOU WILL THEN BUILD DIFFERENT PREDICTIVE MODELS USING BOTH SUPERVISED AND UNSUPERVISED ALGORITHMS, INCLUDING A SIMPLE RECOMMENDER SYSTEM. THE FOCUS THEN SHIFTS TO LEARNING HOW TO DEPLOY A MODEL TO PRODUCTION AND PUBLISHING IT AS AN API. THE BOOK ENDS WITH A COUPLE OF CASE STUDIES

USING ALL THE CONCEPTS AND SKILLS YOU HAVE LEARNED THROUGHOUT THE BOOK TO SOLVE REAL-WORLD PROBLEMS.

DUAL LEARNING - TAO QIN

2020-11-13

MANY AI (AND MACHINE LEARNING) TASKS PRESENT IN DUAL FORMS, E.G., ENGLISH-TO-CHINESE TRANSLATION VS. CHINESE-TO-ENGLISH TRANSLATION, SPEECH RECOGNITION VS. SPEECH SYNTHESIS, QUESTION ANSWERING VS. QUESTION GENERATION, AND IMAGE CLASSIFICATION VS. IMAGE GENERATION. DUAL LEARNING IS A NEW LEARNING FRAMEWORK THAT LEVERAGES THE PRIMAL-DUAL STRUCTURE OF AI TASKS TO OBTAIN EFFECTIVE FEEDBACK OR REGULARIZATION SIGNALS IN ORDER TO ENHANCE THE LEARNING/INFERENCE PROCESS. SINCE IT WAS FIRST INTRODUCED FOUR YEARS AGO, THE CONCEPT HAS ATTRACTED CONSIDERABLE ATTENTION IN MULTIPLE FIELDS, AND BEEN PROVEN EFFECTIVE IN NUMEROUS APPLICATIONS, SUCH AS MACHINE TRANSLATION, IMAGE-TO-IMAGE TRANSLATION, SPEECH SYNTHESIS AND RECOGNITION, (VISUAL) QUESTION ANSWERING AND GENERATION, IMAGE CAPTIONING AND GENERATION, AND CODE SUMMARIZATION AND GENERATION. OFFERING A SYSTEMATIC AND COMPREHENSIVE OVERVIEW OF DUAL LEARNING, THIS BOOK ENABLES INTERESTED RESEARCHERS (BOTH ESTABLISHED AND NEWCOMERS) AND PRACTITIONERS TO GAIN A BETTER UNDERSTANDING OF THE STATE OF THE ART IN THE FIELD. IT ALSO PROVIDES

SUGGESTIONS FOR FURTHER READING AND TOOLS TO HELP READERS ADVANCE THE AREA. THE BOOK IS DIVIDED INTO FIVE PARTS. THE FIRST PART GIVES A BRIEF INTRODUCTION TO MACHINE LEARNING AND DEEP LEARNING. THE SECOND PART INTRODUCES THE ALGORITHMS BASED ON THE DUAL RECONSTRUCTION PRINCIPLE USING MACHINE TRANSLATION, IMAGE TRANSLATION, SPEECH PROCESSING AND OTHER NLP/CV TASKS AS THE DEMO APPLICATIONS. IT COVERS ALGORITHMS, SUCH AS DUAL SEMI-SUPERVISED LEARNING, DUAL UNSUPERVISED LEARNING AND MULTI-AGENT DUAL LEARNING. IN THE CONTEXT OF IMAGE TRANSLATION, IT INTRODUCES ALGORITHMS INCLUDING CYCLEGAN, DUALGAN, DISCOGAN CDGAN AND MORE RECENT TECHNIQUES/APPLICATIONS. THE THIRD PART PRESENTS VARIOUS WORK BASED ON THE PROBABILITY PRINCIPLE, INCLUDING DUAL SUPERVISED LEARNING AND DUAL INFERENCE BASED ON THE JOINT-PROBABILITY PRINCIPLE AND DUAL SEMI-SUPERVISED LEARNING BASED ON THE MARGINAL-PROBABILITY PRINCIPLE. THE FOURTH PART REVIEWS VARIOUS THEORETICAL STUDIES ON DUAL LEARNING AND DISCUSSES ITS CONNECTIONS TO OTHER LEARNING PARADIGMS. THE FIFTH PART PROVIDES A SUMMARY AND SUGGESTS FUTURE RESEARCH DIRECTIONS.

AN INTRODUCTION TO NEURAL INFORMATION RETRIEVAL - BHASKAR MITRA

2018-12-23

EFFICIENT QUERY PROCESSING FOR

SCALABLE WEB SEARCH WILL BE A VALUABLE REFERENCE FOR RESEARCHERS AND DEVELOPERS WORKING ON THIS TUTORIAL PROVIDES AN ACCESSIBLE, YET COMPREHENSIVE, OVERVIEW OF THE STATE-OF-THE-ART OF NEURAL INFORMATION RETRIEVAL.

DEEP LEARNING ON WINDOWS -

THIMIRA AMARATUNGA 2021-02-25

BUILD DEEP LEARNING AND COMPUTER VISION SYSTEMS USING PYTHON, TENSORFLOW, KERAS, OPENCV, AND MORE, RIGHT WITHIN THE FAMILIAR ENVIRONMENT OF MICROSOFT WINDOWS. THE BOOK STARTS WITH AN INTRODUCTION TO TOOLS FOR DEEP LEARNING AND COMPUTER VISION TASKS FOLLOWED BY INSTRUCTIONS TO INSTALL, CONFIGURE, AND TROUBLESHOOT THEM. HERE, YOU WILL LEARN HOW PYTHON CAN HELP YOU BUILD DEEP LEARNING MODELS ON WINDOWS. MOVING FORWARD, YOU WILL BUILD A DEEP LEARNING MODEL AND UNDERSTAND THE INTERNAL WORKINGS OF A CONVOLUTIONAL NEURAL NETWORK ON WINDOWS. FURTHER, YOU WILL GO THROUGH DIFFERENT WAYS TO VISUALIZE THE INTERNAL WORKINGS OF DEEP LEARNING MODELS ALONG WITH AN UNDERSTANDING OF TRANSFER LEARNING WHERE YOU WILL LEARN HOW TO BUILD A MODEL ARCHITECTURE AND USE DATA AUGMENTATIONS. NEXT, YOU WILL MANAGE AND TRAIN DEEP LEARNING MODELS ON WINDOWS BEFORE DEPLOYING YOUR APPLICATION AS A WEB APPLICATION. YOU'LL ALSO DO SOME BASIC IMAGE PROCESSING AND

WORK WITH COMPUTER VISION OPTIONS THAT WILL HELP YOU BUILD VARIOUS APPLICATIONS WITH DEEP LEARNING. FINALLY, YOU WILL USE GENERATIVE ADVERSARIAL NETWORKS ALONG WITH REINFORCEMENT LEARNING. AFTER READING DEEP LEARNING ON WINDOWS, YOU WILL BE ABLE TO DESIGN DEEP LEARNING MODELS AND WEB APPLICATIONS ON THE WINDOWS OPERATING SYSTEM. WHAT YOU WILL LEARN GET DEEP LEARNING TOOLS WORKING ON MICROSOFT WINDOWS UNDERSTAND MODEL VISUALIZATION TECHNIQUES, SUCH AS THE BUILT-IN PLOT_MODEL FUNCTION OF KERAS AND THIRD-PARTY VISUALIZATION TOOLS BUILD A ROBUST TRAINING SCRIPT CONVERT YOUR DEEP LEARNING MODEL INTO A WEB APPLICATION GENERATE HANDWRITTEN DIGITS WITH DCGAN (DEEP CONVOLUTIONAL GENERATIVE ADVERSARIAL NETWORK) UNDERSTAND THE BASICS OF REINFORCEMENT LEARNING WHO THIS BOOK IS FOR AI DEVELOPERS AND ENTHUSIASTS WANTING TO WORK ON THE WINDOWS PLATFORM.

DEEP LEARNING IN NATURAL LANGUAGE PROCESSING - LI DENG 2018-05-23

IN RECENT YEARS, DEEP LEARNING HAS FUNDAMENTALLY CHANGED THE LANDSCAPES OF A NUMBER OF AREAS IN ARTIFICIAL INTELLIGENCE, INCLUDING SPEECH, VISION, NATURAL LANGUAGE, ROBOTICS, AND GAME PLAYING. IN PARTICULAR, THE STRIKING SUCCESS OF DEEP LEARNING IN A WIDE VARIETY OF NATURAL LANGUAGE PROCESSING (NLP) APPLICATIONS HAS SERVED AS A

BENCHMARK FOR THE ADVANCES IN ONE OF THE MOST IMPORTANT TASKS IN ARTIFICIAL INTELLIGENCE. THIS BOOK REVIEWS THE STATE OF THE ART OF DEEP LEARNING RESEARCH AND ITS SUCCESSFUL APPLICATIONS TO MAJOR NLP TASKS, INCLUDING SPEECH RECOGNITION AND UNDERSTANDING, DIALOGUE SYSTEMS, LEXICAL ANALYSIS, PARSING, KNOWLEDGE GRAPHS, MACHINE TRANSLATION, QUESTION ANSWERING, SENTIMENT ANALYSIS, SOCIAL COMPUTING, AND NATURAL LANGUAGE GENERATION FROM IMAGES. OUTLINING AND ANALYZING VARIOUS RESEARCH FRONTIERS OF NLP IN THE DEEP LEARNING ERA, IT FEATURES SELF-CONTAINED, COMPREHENSIVE CHAPTERS WRITTEN BY LEADING RESEARCHERS IN THE FIELD. A GLOSSARY OF TECHNICAL TERMS AND COMMONLY USED ACRONYMS IN THE INTERSECTION OF DEEP LEARNING AND NLP IS ALSO PROVIDED. THE BOOK APPEALS TO ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS, POST-DOCTORAL RESEARCHERS, LECTURERS AND INDUSTRIAL RESEARCHERS, AS WELL AS ANYONE INTERESTED IN DEEP LEARNING AND NATURAL LANGUAGE PROCESSING.

DEEP LEARNING - LI DENG 2014
PROVIDES AN OVERVIEW OF GENERAL DEEP LEARNING METHODOLOGY AND ITS APPLICATIONS TO A VARIETY OF SIGNAL AND INFORMATION PROCESSING TASKS

MODEL-BASED MACHINE LEARNING -
TAYLOR & FRANCIS GROUP
2018-12-07

MACHINE LEARNING WITH DYNAMICS 365 AND POWER PLATFORM -
AURELIEN CLERE 2022-01-06
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.