Bayesian Reasoning And Machine Learning Solution

Introduction to AI and Machine LearningPractical Approach for Machine Learning and Deep Learning AlgorithmsArtificial Intelligence and Machine LearningMachine Learning and Artificial IntelligenceMachine LearningScalable and Distributed Machine Learning and Deep Learning PatternsMachine LearningMachine Learning and Deep Learning With PythonMachine Learning with PythonIntroduction to Machine LearningArtificial Intelligence and Machine LearningHands-On Artificial Intelligence with TensorFlowAn Introduction to Machine LearningMachine Learning for BeginnersScala Machine Learning ProjectsApplications of Artificial Intelligence and Machine LearningMachine Learning for BeginnersFundamentals and Methods of Machine and Deep LearningMachine Learning and Deep Learning for Smart Agriculture and ApplicationsMachine and Deep Learning Algorithms and Applications Disrupt.co.nz Pandey Abhishek Kumar Lyla B. Das Reza Rawassizadeh Samuel Hack Thomas, J. Joshua James Chen Oliver Theobald Ethem Alpaydin Jeff Mc Frockman Amir Ziai Gopinath Rebala Ryan Knight Md. Rezaul Karim Ankur Choudhary John Slavio Pradeep Singh Hashmi, Mohamamd Farukh Uday Shankar Shanthamallu

Introduction to AI and Machine Learning Practical Approach for Machine Learning and Deep Learning Algorithms Artificial Intelligence and Machine Learning Machine Learning and Artificial Intelligence Machine Learning Scalable and Distributed Machine Learning and Deep Learning Patterns Machine Learning Machine Learning and Deep Learning With Python Machine Learning with Python Introduction to Machine Learning Artificial Intelligence and Machine Learning Hands-On Artificial Intelligence with TensorFlow An Introduction to Machine Learning Machine Learning for Beginners Scala Machine Learning Projects Applications of Artificial Intelligence and Machine Learning Machine Learning for Beginners Fundamentals and Methods of Machine and Deep Learning Machine Learning and Deep Learning for Smart Agriculture and Applications Machine and Deep Learning Algorithms and Applications *Disrupt.co.nz Pandey Abhishek Kumar Lyla B. Das Reza Rawassizadeh Samuel Hack Thomas, J. Joshua James Chen Oliver Theobald Ethem Alpaydin Jeff Mc Frockman Amir Ziai Gopinath Rebala Ryan Knight Md. Rezaul Karim Ankur Choudhary John Slavio Pradeep Singh Hashmi, Mohamamd Farukh Uday Shankar Shanthamallu*

discover the fascinating world of artificial intelligence and machine learning with introduction to ai and machine learning a comprehensive guide that opens the door to the future of technology whether you re a curious beginner or a professional looking to update your skills this book provides an engaging hands on introduction to the revolutionary fields of ai machine learning deep learning and neural networks in today s fast paced digital era understanding the foundations of ai and ml is more critical than ever this book breaks down complex concepts into easily digestible chapters making it the perfect starting point for anyone eager to explore topics such as supervised learning unsupervised learning reinforcement learning and natural language processing with clear explanations step by step tutorials and real world examples you ll learn how algorithms drive everything from computer vision and speech recognition to personalized recommendations and self driving cars inside you ll embark on a journey that begins with the fundamentals of artificial intelligence exploring the history and evolution of machine learning you ll discover how data science

big data and advanced algorithms come together to create powerful systems that learn from data and continuously improve over time detailed discussions on neural networks and deep learning will guide you through the intricacies of designing and training models while practical examples ensure you can apply these techniques to real world problems one of the book s standout features is its focus on practical applications and case studies whether you re interested in healthcare diagnostics financial forecasting or autonomous vehicles you ll find inspiring examples of how ai and machine learning are transforming industries each chapter is designed to build your skills gradually from the basics of data preprocessing and feature engineering to the challenges of model evaluation and optimization you ll gain valuable insights into best practices for deploying ai systems in production environments ensuring that your newly acquired skills translate into tangible results ethical considerations and the social impact of ai are also given due attention in an age where algorithmic bias data privacy and transparency are more critical than ever this book provides a balanced view on the responsibilities that come with harnessing ai technology learn about fairness accountability and the emerging standards that are shaping the future of ethical ai development packed with essential keywords such as artificial intelligence machine learning deep learning neural networks natural language processing computer vision and algorithms this book is not just a technical manual it s a roadmap to understanding how modern technology works and evolves each section is enriched with clear diagrams practical tips and hands on projects that empower you to explore and experiment on your own whether you re looking to enhance your career start a new project or simply understand the technology that is transforming our world introduction to ai and machine learning is your ultimate guide dive into this exciting field and unlock the potential of ai to drive innovation efficiency and positive change in every sector of modern life embrace the future of technology your journey into the realm of ai and machine learning starts here

guide covering topics from machine learning regression models neural network to tensor flow key features machine learning in matlab using basic concepts and algorithms deriving and accessing of data in matlab and next pre processing and preparation of data machine learning workflow for health monitoring the neural network domain and implementation in matlab with explicit explanation of code and results how predictive model can be improved using matlab matlab code for an algorithm implementation rather than for mathematical formula machine learning workflow for health monitoring description machine learning is mostly sought in the research field and has become an integral part of many research projects nowadays including commercial applications as well as academic research application of machine learning ranges from finding friends on social networking sites to medical diagnosis and even satellite processing in this book we have made an honest effort to make the concepts of machine learning easy and give basic programs in matlab right from the installation part although the real time application of machine learning is endless however the basic concepts and algorithms are discussed using matlab language so that not only graduation students but also researchers are benefitted from it what will you learn pre requisites to machine learning finding natural patterns in data building classification methods data pre processing in python building regression models creating neural networks deep learning who this book is forthe book is basically meant for graduate and research students who find the algorithms of machine learning difficult to implement we have touched all basic algorithms of machine learning in detail with a practical approach primarily beginners will find this book more effective as the chapters are subdivided in a manner that they find the building and implementation of algorithms in matlab interesting and easy at the same time table of contents1 pre requisite to machine learning2 an introduction to machine learning3 finding natural patterns in data4 building classification methods5 data pre processing in python6 building regression models7 creating neural networks8 introduction to deep learningabout the authorabhishek kumar pandey is pursuing his doctorate in computer science and done m tech in computer sci engineering he has been working as an assistant professor of computer science at aryabhatt engineering college and

research center ajmer and also visiting faculty in government university mds ajmer he has total academic teaching experience of more than eight years with more than 50 publications in reputed national and international journals his research area includes artificial intelligence image processing computer vision data mining machine learning his blog veenapandey simplesite com his linkedin profile linkedin com in abhishek pandey ba6a6a64 pramod singh rathore is m tech in computer sci and engineering from government engineering college ajmer rajasthan technical university kota india he have been working as an assistant professor computer science at aryabhatt engineering college and research center ajmer and also a visiting faculty in government university ajmer he has authored a book in network simulation which published worldwide he has a total academic teaching experience more than 7 years with many publications in reputed national group crc usa and has 40 publications as research papers and chapters in reputed national and international e sci scopus his research area includes machine learning ns2 computer network mining and dbms dr s balamurugan is the head of research and development quants is cs india formely he was the director of research and development at mindnotix technologies india he has authored co authored 33 books and has 200 publications in various international journals and conferences to his credit he was awarded with three post doctoral degrees doctor of science d sc degree and two doctor of letters d litt degrees for his significant contribution to research and development in engineering and is the recepient of thee best director award 2018 his biography is listed in e world book of researchers e 2018 oxford uk and in e marquis who s who e 2018 issue new jersey usa he carried out a healthcare consultancy project for vgm hospitals between 2013 and 2016 and his current research projects include e women empowerment using iot e e health aware smart chair e e advanced brain simulators for assisting physiological medicine e e designing novel health bands e and e iot based devices for assisting elderly people e his linkedin profile linkedin com in dr s balamurugan 008a7512

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 ai machine learning and data science often means piecing together concepts scattered across countless resources statistics and visualizations to foundational models and large language models this book the result of eight years of effort brings it all together in one accessible engaging package it clarifies artificial intelligence and data science blending core mathematical principles with a clear reader friendly approach unlike traditional textbooks that lean heavily on equations and mathematical formalization the author starts with minimal prerequisites layering deeper math as the reader progresses each concept algorithm or model is unpacked through clear hands on examples that build the reader s skills step by step it strikes a balance between theoretical foundations and practical application serving as both an academic reference and a practical guide furthermore the book uses humor casual language and comics to make the challenging concepts and topics relatable and

fun any resemblance between the jokes and real life is pure coincidence and no offense is intended table of contents part i introduction preliminary requirements chapter 1 basic concepts chapter 2 visualization chapter 3 probability and statistics part ii unsupervised learning chapter 4 clustering chapter 5 frequent itemset sequence mining and information retrieval part iii data engineering chapter 6 feature engineering chapter 7 dimensionality reduction and data decomposition part iv supervised learning chapter 8 regression analysis chapter 9 classification part v neural network chapter 10 neural networks and deep learning chapter 11 self supervised deep learning chapter 12 deep learning models and applications text vision and audio part vi reinforcement learning chapter 13 reinforcement learning part vii other algorithms and concepts chapter 14 making lighter neural network and machine learning models chapter 15 graph mining algorithms chapter 16 concepts and challenges of working with data

master the world of python and machine learning with this incredible 4 in 1 bundle are you interested in becoming a python pro do you want to learn more about the incredible world of machine learning and what it can do for you then keep reading created with the beginner in mind this powerful bundle delves into the fundamentals behind python and machine learning from basic code and mathematical formulas to complex neural networks and ensemble modeling inside you ll discover everything you need to know to get started with python and machine learning and begin your journey to success in book one machine learning for beginners you ll learn what is artificial intelligence really and why is it so powerful choosing the right kind of machine learning model for you an introduction to statistics reinforcement learning and ensemble modeling random forests and decision trees in book two machine learning mathematics you will learn the fundamental concepts of machine learning algorithms understand the four fundamental types of machine learning algorithm master the concept of statistical learning learn everything you need to know about neural networks and data pipelines master the concept of general setting of learning in book three learning python you ll discover how to install run and understand python on any operating system a comprehensive introduction to python python basics and writing code writing loops conditional statements exceptions and more python expressions and the beauty of inheritances and in book four python machine learning you will learn the fundamentals of machine learning master the nuances of 12 of the most popular and widely used machine learning algorithms become familiar with data science technology dive into the functioning of scikit learn library and develop machine learning models uncover the secrets of the most critical aspect of developing a machine learning model data pre processing and training testing subsets whether you re a complete beginner or a programmer looking to improve your skillset this bundle is your all in one solution to mastering the world of python and machine learning so don t wait it s never been easier to learn buy now to become a master of python and machine learning today

scalable and distributed machine learning and deep learning patterns is a practical guide that provides insights into how distributed machine learning can speed up the training and serving of machine learning models reduce time and costs and address bottlenecks in the system during concurrent model training and inference the book covers various topics related to distributed machine learning such as data parallelism model parallelism and hybrid parallelism readers will learn about cutting edge parallel techniques for serving and training models such as parameter server and all reduce pipeline input intra layer model parallelism and a hybrid of data and model parallelism the book is suitable for machine learning professionals researchers and students who want to learn about distributed machine learning techniques and apply them to their work this book is an essential resource for advancing knowledge and skills in artificial intelligence deep learning and high performance computing the book is suitable for computer electronics and electrical engineering courses focusing on artificial intelligence parallel computing high performance computing machine learning

and its applications whether you re a professional researcher or student working on machine and deep learning applications this book provides a comprehensive guide for creating distributed machine learning including multi node machine learning systems using python development experience by the end of the book readers will have the knowledge and abilities necessary to construct and implement a distributed data processing pipeline for machine learning model inference and training all while saving time and costs

recent times are witnessing rapid development in machine learning algorithm systems especially in reinforcement learning natural language processing computer and robot vision image processing speech and emotional processing and understanding in tune with the increasing importance and relevance of machine learning models algorithms and their applications and with the emergence of more innovative uses cases of deep learning and artificial intelligence the current volume presents a few innovative research works and their applications in real world such as stock trading medical and healthcare systems and software automation the chapters in the book illustrate how machine learning and deep learning algorithms and models are designed optimized and deployed the volume will be useful for advanced graduate and doctoral students researchers faculty members of universities practicing data scientists and data engineers professionals and consultants working on the broad areas of machine learning deep learning and artificial intelligence

this book is a comprehensive guide to understanding and implementing cutting edge machine learning and deep learning techniques using python programming language written with both beginners and experienced developers in mind this book provides a thorough overview of the foundations of machine learning and deep learning including mathematical fundamentals optimization algorithms and neural networks starting with the basics of python programming this book gradually builds up to more advanced topics such as artificial neural networks convolutional neural networks and generative adversarial networks each chapter is filled with clear explanations practical examples and step by step tutorials that allow readers to gain a deep understanding of the underlying principles of machine learning and deep learning throughout the book readers will also learn how to use popular python libraries and packages including numpy pandas scikit learn tensorflow and keras to build and train powerful machine learning and deep learning models for a variety of real world applications such as regression and classification k means support vector machines and recommender systems whether you are a seasoned data scientist or a beginner looking to enter the world of machine learning this book is the ultimate resource for mastering these cutting edge technologies and taking your skills to the next level high school level of mathematical knowledge and all levels including entry level of programming skills are good to start all python codes are available at github com table of contents 1 introduction 1 1 artificial intelligence machine learning and deep learning 1 2 whom this book is for 1 3 how this book is organized 2 environments 2 1 source codes for this book 2 2 cloud environments 2 3 docker hosted on local machine 2 4 install on local machines 2 5 install required packages 3 math fundamentals 3 1 linear algebra 3 2 calculus 3 3 advanced functions 4 machine learning 4 1 linear regression 4 2 logistic regression 4 3 multinomial logistic regression 4 4 k means clustering 4 5 principal component analysis pca 4 6 support vector machine svm 4 7 k nearest neighbors 4 8 anomaly detection 4 9 artificial neural network ann 4 10 convolutional neural network cnn 4 11 recommendation system 4 12 generative adversarial network references about the author

unlock the secrets of data science and machine learning with our comprehensive python course designed to take you from basics to complex algorithms effortlessly key features navigate through python s machine learning libraries effectively learn exploratory data analysis and data scrubbing techniques design and evaluate machine

learning models with precision book descriptionthe course starts by setting the foundation with an introduction to machine learning python and essential libraries ensuring you grasp the basics before diving deeper it then progresses through exploratory data analysis data scrubbing and pre model algorithms equipping you with the skills to understand and prepare your data for modeling the journey continues with detailed walkthroughs on creating evaluating and optimizing machine learning models covering key algorithms such as linear and logistic regression support vector machines k nearest neighbors and tree based methods each section is designed to build upon the previous reinforcing learning and application of concepts wrapping up the course introduces the next steps including an introduction to python for newcomers ensuring a comprehensive understanding of machine learning applications what you will learn analyze datasets for insights scrub data for model readiness understand key ml algorithms design and validate models apply linear and logistic regression utilize k nearest neighbors and svms who this book is for this course is ideal for aspiring data scientists and professionals looking to integrate machine learning into their workflows a basic understanding of python and statistics is beneficial

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

if you are interested in learning about artificial intelligence and machine learning or investing in these technological innovations then artificial intelligence and machine learning ai superpowers and human machine a visionary revolution in finance medicine and business find out top influent people of the era with a modern approach is the book that you have been waiting for although artificial intelligence and machine learning algorithms have been here with us for long the ability to apply big data and make mathematical calculations even faster is a recent phenomenon this book enlightens you on how the two technological developments have been able to speed up the process of economic growth and career advancement to that end this book provides an in depth overview of artificial intelligence and machine learning highlighting their historical development and application in various fields including finance business and medicine it covers how artificial intelligence interacts with human intelligence including the possible partnerships between humans and machines and how each influences the other people can utilize so much from artificial intelligence and machine learning to improve their lives and enhance their productivity an interesting concept covered in this book is the ai superpowers across the world and how they impact the development of ai today and possibly in the future these include amit singhal of uber andrew ng of baidu elon musk of spacex and tesla among others artificial intelligence and machine learning are important tools that can promote development through enhanced production in various fields including finance medicine business and air this is why you will learn how to invest in artificial intelligence the possible benefits and risks associated with the technology inside this book you will find understanding of the definition goals advantages and relationship of artificial intelligence and machine learning an overview of the relationship between artificial intelligence and human intelligence an outline of the key technology behind the human machine interface an overview of ai superpowers and ai key players an understanding of the 10 most influential people and their contribution to ai development and many more

book description artificial intelligence ai is a popular area with an emphasis on creating intelligent machines that can reason evaluate and understand the same way as humans it is used extensively across many fields such as image recognition robotics language processing healthcare finance and more hands on artificial intelligence with tensorflow gives you a rundown of essential ai concepts and their implementation with tensorflow also highlighting different approaches to solving ai problems using

machine learning and deep learning techniques in addition to this the book covers advanced concepts such as reinforcement learning generative adversarial networks gans and multimodal learning once you have grasped all this you ll move on to exploring gpu computing and neuromorphic computing along with the latest trends in quantum computing you ll work through case studies that will help you examine ai applications in the important areas of computer vision healthcare and fintech and analyze their datasets in the concluding chapters you ll briefly investigate possible developments in ai that we can expect to see in the future by the end of this book you will be well versed with the essential concepts of ai and their implementation using tensorflow what you will learn explore the core concepts of ai and its different approaches use the tensorflow framework for smart applications implement various machine and deep learning algorithms with tensorflow design self learning rl systems and implement generative models perform gpu computing efficiently using best practices build enterprise grade apps for computer vision nlp and healthcare who this book is for hands on artificial intelligence with tensorflow is for you if you are a machine learning developer data scientist ai researcher or anyone who wants to build artificial intelligence applications using tensorflow you need to have some working knowledge of machine learning to get the most out of this book

just like electricity machine learning will revolutionize our life in many ways some of which are not even conceivable today this book provides a thorough conceptual understanding of machine learning techniques and algorithms many of the mathematical concepts are explained in an intuitive manner the book starts with an overview of machine learning and the underlying mathematical and statistical concepts before moving onto machine learning topics it gradually builds up the depth covering many of the present day machine learning algorithms ending in deep learning and reinforcement learning algorithms the book also covers some of the popular machine learning applications the material in this book is agnostic to any specific programming language or hardware so that readers can try these concepts on whichever platforms they are already familiar with offers a comprehensive introduction to machine learning while not assuming any priorknowledge of the topic provides a complete overview of available techniques and algorithms in conceptual terms covering various application domains of machine learning not tied to any specific software language or hardware implementation

enter a world of algorithms data and artificial intelligence this all inclusive guide strips away the complexity of machine learning and ai transforming them from daunting subjects into accessible and comprehendible concepts whether you re a total novice or a professional looking to broaden your knowledge this guide provides a structured approach that walks you through the basics right through to the cutting edge applications of ai and machine learning crafted with the reader in mind every chapter provides detailed explanations relatable examples and step by step instructions to ensure a comprehensive yet enjoyable learning experience inside this book you ll discover an introduction to the exciting world of machine learning and ai making it accessible to everyone regardless of technical background comprehensive discussions on the foundational concepts of machine learning including algorithms data science principles and the different types of machine learning deep dives into the transformative applications of ai and machine learning in industries such as healthcare retail finance transportation education and entertainment practical guides on mastering the essential tools and techniques for building intelligent solutions complete with hands on exercises and examples an exploration of the ethical considerations around ai and machine learning and the responsibilities we have as practitioners future trends in machine learning and ai providing a glimpse into what lies on the horizon ignite your journey into the fascinating world of machine learning and ai today unleash the power of data and algorithms create intelligent solutions and shape a better future are you ready to master the future the opportunity is just a click away pick up your copy now and let s get started

powerful smart applications using deep learning algorithms to dominate numerical computing deep learning and functional programming key features explore machine learning techniques with prominent open source scala libraries such as spark ml h2o mxnet zeppelin and deeplearning4j solve real world machine learning problems by delving complex numerical computing with scala functional programming in a scalable and faster way cover all key aspects such as collection storing processing analyzing and evaluation required to build and deploy machine models on computing clusters using scala play framework book description machine learning has had a huge impact on academia and industry by turning data into actionable information scala has seen a steady rise in adoption over the past few years especially in the fields of data science and analytics this book is for data scientists data engineers and deep learning enthusiasts who have a background in complex numerical computing and want to know more hands on machine learning application development if you re well versed in machine learning concepts and want to expand your knowledge by delving into the practical implementation of these concepts using the power of scala then this book is what you need through 11 end to end projects you will be acquainted with popular machine learning libraries such as spark ml h2o deeplearning4j and mxnet at the end you will be able to use numerical computing and functional programming to carry out complex numerical tasks to develop build and deploy research or commercial projects in a production ready environment what you will learn apply advanced regression techniques to boost the performance of predictive models use different classification algorithms for business analytics generate trading strategies for bitcoin and stock trading using ensemble techniques train deep neural networks dnn using h2o and spark ml utilize nlp to build scalable machine learning models learn how to apply reinforcement learning algorithms such as q learning for developing ml application learn how to use autoencoders to develop a fraud detection application implement lstm and cnn models using deeplearning4j and mxnet who this book is for if you want to leverage the power of both scala and spark to make sense of big data then this book is for you if you are well versed with machine learning concepts and wants to expand your knowledge by delving into the practical implementation using the power of scala then this book is what you need strong understanding of scala programming language is recommended basic familiarity with machine learning techniques will be more helpful

the book presents a collection of peer reviewed articles from the international conference on advances and applications of artificial intelligence and machine learning icaaaiml 2020 the book covers research in artificial intelligence machine learning and deep learning applications in healthcare agriculture business and security this volume contains research papers from academicians researchers as well as students there are also papers on core concepts of computer networks intelligent system design and deployment real time systems wireless sensor networks sensors and sensor nodes software engineering and image processing this book will be a valuable resource for students academics and practitioners in the industry working on ai applications

fundamentals and methods of machine and deep learning the book provides a practical approach by explaining the concepts of machine learning and deep learning algorithms evaluation of methodology advances and algorithm demonstrations with applications over the past two decades the field of machine learning and its subfield deep learning have played a main role in software applications development also in recent research studies they are regarded as one of the disruptive technologies that will transform our future life business and the global economy the recent explosion of digital data in a wide variety of domains including science engineering internet of things biomedical healthcare and many business sectors has declared the era of big data which cannot be analysed by classical statistics but by the more modern robust machine learning and deep learning techniques since machine learning learns from data rather than by programming hard coded decision rules an attempt is being

made to use machine learning to make computers that are able to solve problems like human experts in the field the goal of this book is to present a practical approach by explaining the concepts of machine learning and deep learning algorithms with applications supervised machine learning algorithms ensemble machine learning algorithms feature selection deep learning techniques and their applications are discussed also included in the eighteen chapters is unique information which provides a clear understanding of concepts by using algorithms and case studies illustrated with applications of machine learning and deep learning in different domains including disease prediction software defect prediction online television analysis medical image processing etc each of the chapters briefly described below provides both a chosen approach and its implementation audience researchers and engineers in artificial intelligence computer scientists as well as software developers

machine learning and deep learning for smart agriculture and applications delves into the captivating realm of artificial intelligence and its pivotal role in transforming the landscape of modern agriculture with a focus on precision agriculture digital farming and emerging concepts this book illuminates the significance of sustainable food production and resource management in the face of evolving digital hardware and software technologies geospatial technology robotics the internet of things iot and data analytics converge with machine learning and big data to unlock new possibilities in agricultural management this book explores the synergy between these disciplines offering cutting edge insights into data intensive processes within operational agricultural environments from automated irrigation systems and agricultural drones for field analysis to crop monitoring and precision agriculture the applications of machine learning are far reaching animal identification and health monitoring also benefit from these advanced techniques with practical case studies on vegetable and fruit leaf disease detection drone based agriculture and the impact of pesticides on plants this book provides a comprehensive understanding of the applications of machine learning and deep learning in smart agriculture it also examines various modeling techniques employed in this field and showcases how artificial intelligence can revolutionize plant disease detection this book serves as a comprehensive guide for researchers practitioners and students seeking to harness the power of ai in transforming the agricultural landscape

this book introduces basic machine learning concepts and applications for a broad audience that includes students faculty and industry practitioners we begin by describing how machine learning provides capabilities to computers and embedded systems to learn from data a typical machine learning algorithm involves training and generally the performance of a machine learning model improves with more training data deep learning is a sub area of machine learning that involves extensive use of layers of artificial neural networks typically trained on massive amounts of data machine and deep learning methods are often used in contemporary data science tasks to address the growing data sets and detect cluster and classify data patterns although machine learning commercial interest has grown relatively recently the roots of machine learning go back to decades ago we note that nearly all organizations including industry government defense and health are using machine learning to address a variety of needs and applications the machine learning paradigms presented can be broadly divided into the following three categories supervised learning unsupervised learning and semi supervised learning supervised learning algorithms focus on learning a mapping function and they are trained with supervision on labeled data supervised learning is further sub divided into classification and regression algorithms unsupervised learning typically does not have access to ground truth and often the goal is to learn or uncover the hidden pattern in the data through semi supervised learning one can effectively utilize a large volume of unlabeled data and a limited amount of labeled data to improve machine learning model performances deep learning and neural networks are also covered in this book deep neural networks have attracted a lot of interest during the last ten years due to the availability of graphics processing units gpu computational power big data and new software

platforms they have strong capabilities in terms of learning complex mapping functions for different types of data we organize the book as follows the book starts by introducing concepts in supervised unsupervised and semi supervised learning several algorithms and their inner workings are presented within these three categories we then continue with a brief introduction to artificial neural network algorithms and their properties in addition we cover an array of applications and provide extensive bibliography the book ends with a summary of the key machine learning concepts

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