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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.

Artificial Intelligence-Based Brain Computer Interface provides concepts of AI for modelling of non-invasive modalities of medical signals such as EEG, MRI, and fMRI. These modalities and their AI-based analysis are employed in BCI and related applications. This can help to improve the healthcare system through detection, identification, prediction, analysis and classification of disease, management of chronic conditions, and delivery of health services. Artificial Intelligence-Based Brain Computer Interface emphasizes the real challenges in non-invasive input due to the complex nature of the human brain and for a variety of applications for analysis, classification and identification of different mental states. Each chapter starts with a description of a non-invasive input example and the need and motivation of the associated AI methods, along with discussions to connect the technology through BCI. Major topics include different AI methods/techniques such as Deep Neural Networks and Machine Learning algorithms for different non-invasive modalities such as EEG, MRI, fMRI for improving the diagnosis and prognosis of numerous disorders of the nervous system, cardiovascular system, musculoskeletal system, respiratory system and various organs of the body. The book also covers applications of AI in management of chronic condition, databases and delivery of health services. Various brain image modalities are analyzed and capabilities of the human brain will be exploited in BCI applications and case studies. The book presents AI methods for solving real-world problems and challenges in BCI and healthcare systems with the help of appropriate case studies and research results. Provides readers with an understanding of the key applications of Artificial Intelligence to Brain-Computer Interface for acquisition and modelling of non-invasive biomedical signal and image modalities for various conditions and disorders Integrates recent advancements of Artificial Intelligence to the evaluation of large amounts of clinical data for early detection of disorders such as Epilepsy, Alcoholism, Sleep Apnea, motor-imagery tasks classification, and others Provides readers with illustrative examples of how Artificial Intelligence can be applied to Brain-Computer Interface, including a wide range of case studies in predicting and classification of neurological disorders

In the fifth book of the Alien Next Door series, Zeke, Harris, and Roxy all try out for the baseball team, but Zeke can't resist using his powers to help him play better than everyone else. It's baseball season, and Zeke, Harris, and Roxy all decide to try out for the team. Zeke doesn't quite know how to play baseball, but his powers allow him to pitch and hit better than anyone else! But Harris thinks that what Zeke is doing is cheating, since none of the other players have his powers, and he's also concerned that someone might discover Zeke's an alien. But Zeke doesn't see a problem with this, causing tension in their friendship. Can Zeke and Harris save their friendship, or will they strike out?

Introduction -- China's Sputnik moment -- Copycats in the Coliseum -- China's alternate Internet universe -- A tale of two countries -- The four waves of AI -- Utopia, dystopia, and the real AI crisis -- The wisdom of cancer -- A blueprint for human co-existence with AI -- Our global AI story

In the ninth book of the Alien Next Door series, Harris, Roxy, and Zeke have one more adventure at an marvelous alien museum before heading back to Earth! Harris, Roxy, and Zeke are hurtling back toward Earth after their adventure on Tragas. As they're playing games to fill the time, Zeke comes across a letter to his parents from the biggest, most famous museum in the galaxy. It's an invitation to an exhibit filled with research they did about Earth! Zeke begs his parents to go, and they decide there's enough time for one last stop on their trip before going back to Earth. Harris and Roxy are thrilled--what amazing things will they discover in this marvelous alien museum full of many galaxies' worth of wonders? Aimi longs to have close and lasting friends. Will her adventures at church camp help her build enduring friendships? Eleven-year-old Aimi is great at making friends. But maintaining those friendships? That's way harder. She hopes she can crack the secret code to finding a new lifelong BFF. When her parents send her to church camp, Aimi prays she will find beautiful new friendships. However, on the very first night, she gets lost in the giant forest where danger lurks behind every tree. Aimi must bravely travel through the woods to find her way back to safety. Along the way, she has some quite unexpected encounters. Will Aimi's adventures at church camp teach her the true meaning of friendship? The Giant Forest is the exciting first book in the Growing Up Aimi middle grade fiction series. If you like honest characters, fun twists, and Christian themes, then you'll love father-daughter writing duo Bill & Mia Belew's wonderful tale. Buy first-in-series, The Giant Forest, and come grow up with Aimi. Do you

want to learn how to draw anime characters in an easy, step-by-step way? Looking for the best guidebook to teach you the essential skills you need to bring your characters to life? Then this book is for you! Inside this brilliant drawing book, you'll uncover everything you need to know about creating the perfect anime character. Covering heads, facial features, body proportions, emotions, clothing, and even basic character models for you to try, this book is the perfect way for you to get started with the world of anime! Great for all skill levels, now even a complete beginner can learn to draw with ease. Plus, drawing is also scientifically proven to help you unlock your inner creativity, promote mindfulness and relaxation, and help you destress and relieve anxiety. A great gift for anime fans of all ages, it's also a wonderful skill for passing the time when you're stuck indoors. Book details: Ideal for all ages and skill levels A great activity for passing the time and providing hours of fun Step-by-step instructions designed to make learning to draw simple! Covers heads, facial features, posture, proportions, emotions, clothing and more Makes the perfect gift for birthdays, stocking stuffers and holidays Promotes creativity, artistic ambition, mindfulness, stress relief and more So if you're looking for a fun, simple and step-by-step way of learning to draw anime characters, then you've come to the right place! The "intimate and expansive" (Time) memoir of "one of the most important artists working in the world today" (Financial Times), telling a remarkable history of China over the last hundred years while also illuminating his artistic process "Poignant . . . An illuminating through-line emerges in the many parallels Ai traces between his life and his father's."—The New York Times Book Review (Editors' Choice) ONE OF THE BEST BOOKS OF THE YEAR: Time, BookPage, Booklist, Kirkus Reviews Once a close associate of Mao Zedong and the nation's most celebrated poet, Ai Weiwei's father, Ai Qing, was branded a rightist during the Cultural Revolution, and he and his family were banished to a desolate place known as "Little Siberia," where Ai Qing was sentenced to hard labor cleaning public toilets. Ai Weiwei recounts his childhood in exile, and his difficult decision to leave his family to study art in America, where he befriended Allen Ginsberg and was inspired by Andy Warhol and the artworks of Marcel Duchamp. With candor and wit, he details his return to China and his rise from artistic unknown to art world superstar and international human rights activist—and how his work has been shaped by living under a totalitarian regime. Ai Weiwei's sculptures and installations have been viewed by millions around the globe, and his architectural achievements include helping to design the iconic Bird's Nest Olympic Stadium in Beijing. His political activism has long made him a target of the Chinese authorities, which culminated in months of secret detention without charge in 2011. Here, for the first time, Ai Weiwei explores the origins of his exceptional creativity and passionate political beliefs through his life story and that of his father, whose creativity was stifled. At once ambitious and intimate, Ai Weiwei's 1000 Years of Joys and Sorrows offers a deep understanding of the myriad forces that have shaped modern China, and serves as a timely reminder of the urgent need to protect freedom of expression. Artificial Intelligence and Data Driven Optimization of Internal Combustion Engines summarizes recent developments in Artificial Intelligence (AI)/Machine Learning (ML) and data driven optimization and calibration techniques for internal combustion engines. The book covers AI/ML and data driven methods to optimize fuel formulations and engine combustion systems, predict cycle to cycle variations, and optimize after-treatment systems and experimental engine calibration. It contains all the details of the latest optimization techniques along with their application to ICE, making it ideal for automotive engineers, mechanical engineers, OEMs and R&D centers involved in engine design. Provides AI/ML and data driven optimization techniques in combination with Computational Fluid Dynamics (CFD) to optimize engine combustion systems Features a comprehensive overview of how AI/ML techniques are used in conjunction with simulations and experiments Discusses data driven optimization techniques for fuel formulations and vehicle control calibration If you're looking to make a career move from programmer to AI specialist, this is the ideal place to start. Based on Laurence Moroney's extremely successful AI courses, this introductory book provides a hands-on, code-first approach to help you build confidence while you learn key topics. You'll understand how to implement the most common scenarios in machine learning, such as computer vision, natural language processing (NLP), and sequence modeling for web, mobile, cloud, and embedded runtimes. Most books on machine learning begin with a daunting amount of advanced math. This guide is built on practical lessons that let you work directly with the code. You'll learn: How to build models with TensorFlow using skills that employers desire The basics of machine learning by working with code samples How to implement computer vision, including feature detection in images How to use NLP to tokenize and sequence words and sentences Methods for embedding models in Android and iOS How to serve models over the web and in the cloud with TensorFlow Serving Written by prominent thought leaders in the global fintech space, The AI Book aggregates diverse expertise into a single, informative volume and explains what artificial intelligence really means and how it can be used across financial services today. Key industry developments are explained in detail, and critical insights from cutting-edge practitioners offer first-hand information and lessons learned. Coverage includes: · Understanding the AI Portfolio: from machine learning to chatbots, to natural language processing (NLP); a deep dive into the Machine Intelligence Landscape; essentials on core technologies, rethinking enterprise, rethinking industries, rethinking humans; quantum computing and next-generation AI · AI experimentation and embedded usage, and the change in business model, value proposition, organisation, customer and co-worker experiences in today's Financial Services Industry · The future state of financial services and capital markets – what's next for the real-world implementation of AITech? · The innovating customer – users are not waiting for the financial services industry to work out how AI can re-shape their sector, profitability and competitiveness · Boardroom issues created and magnified by AI trends, including conduct, regulation & oversight in an algo-driven world, cybersecurity, diversity & inclusion, data privacy, the 'unbundled corporation' & the future of work, social responsibility, sustainability, and the new leadership imperatives · Ethical considerations of deploying AI solutions and why explainable AI is so important Biography of Ai Mi Tran, currently line cook at mixt greens. Are robots going to take my job? How are smartphones affecting my kids? Do I need to worry about privacy when I get online or ask Siri for directions? Whatever questions you have about AI, The Age of AI gives you insights on how to navigate this brand-new world as you apply God's ageless truths to your life and future. Alexa, how is AI changing our world? We interact with artificial intelligence, or AI, nearly every moment of the day without knowing it. From our Twitter and Facebook social media feeds to our online carts to smart thermostats and Alexa and Google Home, AI is everywhere. In The Age of AI, Jason Thacker--associate research fellow at the Ethics and Religious Liberty Commission--helps us navigate our digital age in this thoughtful exploration of the social, moral, and ethical challenges of our ongoing interactions with artificial intelligence. Applying God's Word to this new AI-empowered age, The Age of AI shows us how Christian truth transforms how we use AI in order to love God and our neighbor better. It serves as a guide for those wary of technology's impact on our society and also for those who are enthusiastic about where AI is taking us. Jason explains how AI affects us individually, in our relationships, and in our society at large as he addresses AI's impact on

our bodies, sexuality, work, economics, and privacy. With theological depth and a wide awareness of the current trends in AI, Jason is a steady guide reminding us that while AI is changing most things, it does not change the foundations of the Christian faith. The first book-length treatment of theories, practical lessons, and the full set of critical issues that affect international joint ventures. It addresses culture, human resources, learning, legal, management, and research and development, and presents a full set of decisions and detailed guidelines for IJV formation and management. It also thoroughly analyzes 30 case studies. "All too often," wrote disabled architect Ronald Mace, "designers don't take the needs of disabled and elderly people into account." Building Access investigates twentieth-century strategies for designing the world with disability in mind. Commonly understood in terms of curb cuts, automatic doors, Braille signs, and flexible kitchens, Universal Design purported to create a built environment for everyone, not only the average citizen. But who counts as "everyone," Aimi Hamraie asks, and how can designers know? Blending technoscience studies and design history with critical disability, race, and feminist theories, Building Access interrogates the historical, cultural, and theoretical contexts for these questions, offering a groundbreaking critical history of Universal Design. Hamraie reveals that the twentieth-century shift from "design for the average" to "design for all" took place through liberal political, economic, and scientific structures concerned with defining the disabled user and designing in its name. Tracing the co-evolution of accessible design for disabled veterans, a radical disability maker movement, disability rights law, and strategies for diversifying the architecture profession, Hamraie shows that Universal Design was not just an approach to creating new products or spaces, but also a sustained, understated activist movement challenging dominant understandings of disability in architecture, medicine, and society. Illustrated with a wealth of rare archival materials, Building Access brings together scientific, social, and political histories in what is not only the pioneering critical account of Universal Design but also a deep engagement with the politics of knowing, making, and belonging in twentieth-century United States.

What is artificial intelligence? How is artificial intelligence used in game development? Game development lives in its own technical world. It has its own idioms, skills, and challenges. That's one of the reasons games are so much fun to work on. Each game has its own rules, its own aesthetic, and its own trade-offs, and the hardware it will run on keeps changing. AI for Games is designed to help you understand one element of game development: artificial intelligence (AI). Unleash your creativity with this brilliant anime coloring book! Are you searching for a brand-new coloring book to spur your artistic ambition? Do you want to combine a love of anime and manga with your passion for coloring? Then it's time to try this book! Containing 40+ stunning illustrations of anime and manga, this wonderful coloring book brings this world-famous and adored part of Japanese culture to life with a wide selection of beautiful images. Suitable for all ages and skill levels, inside you'll find a ton of different characters, art styles, and poses, all designed to unlock your creativity and provide hours of enjoyment. Coloring is also proven to be a brilliant way of boosting your focus, improving your mood and concentration, and helping you experience the benefits of meditative mindfulness. Book details: 40 Stunning, Professional Illustrations of Anime and Manga Characters Tons of Diverse Character Designs, Art Styles, and Poses Perfect For all Ages and Skill Levels Suitable For Pencils, Pens, Markers and More Large Trim Size and High-Quality Paper Unlocks Your Inner Creativity and Helps You Spur Your Inner Artist And More! So if you're searching for a way to combine your love of coloring and drawing with a passion for anime and manga, then this is the book for you! With so many illustrations inside, you're bound to find something that's perfect for every anime fan. Scroll up and buy now to start coloring today!

THE FUTRE IS OURS When humans first evolved, we were basically indistinguishable from animals. Then we harnessed the power of fire, and it catapulted us beyond a state of animalism. Since then, human innovation has propelled us from one technological revolution to the next. We are now at the next world-altering wave of technological evolution: artificial intelligence. But the current AI offerings cannot fulfill our fundamental desire to communicate with our technology through speech. We didn't evolve to type or use a mouse; we evolved to have conversations, including with our technology. We want the USS Enterprise shipboard computer, J.A.R.V.I.S. from Iron Man, the interface from Her. But we are not there yet. Conversational AI and AI in general are collectively our next fire, light bulb, or internet. And we must thank Apple, Google, and Amazon for whetting our appetite with Siri, Google Home, and Alexa. But now we're ready for what's next. That's where the groundbreaking work of computer scientist Jason Mars and Clinc, the company he founded, comes in. Breaking Bots paints a thrilling portrait of the past, present, and future of the AI revolution through Jason's unlikely journey to AI stardom, the extraordinary rise of Clinc from a scrappy start-up to a juggernaut toppler, and the paradigm-shifting technical and cultural DNA that makes Jason's work and Clinc's technology the future of AI. The AI revolution is at hand--and you are part of the journey! "Artificial Intelligence, deep learning, machine learning - whatever you're doing if you don't understand it - learn it. Because otherwise you're going to be a dinosaur within three years." - Mark Cuban A.I. has changed the way we do business and make money. Now coming for our jobs. In the Age of AI: How A.I. and Emerging Technologies Are Disrupting Industries, Lives, and the Future of Work takes a serious look at where the job market could be in the near future. With the advance of technologies like machine learning and self-driving vehicles, we are starting to see many traditional white and blue collar jobs being pushed out of the market. What will those workers do? How can they effectively re-skill and move forward? Author Sam Mielke brings in the research and viewpoints from prominent names in the field like Ray Kurzweil, Elon Musk, and various other companies like Joby Aviation which are centered around emerging technology and its impact on future jobs. Read on to find out how truck drivers are losing ground to artificial intelligence, as well as how flying cars and prolonging human life two-fold are realities we can expect sooner rather than later. Whether you are currently working in a field threatened by automation or simply fascinated by the advance of modern technologies, In the Age of AI belongs in your library. In the first book of the brand-new early chapter book series, the Alien Next Door, an alien boy named Zeke tries to fit in and adjust to life on Earth, while a classmate, Harris, suspects that Zeke might not be quite what he claims to be. Zeke is on his way to his first day of school, feeling down because he has to start over again on a new planet, as his scientist parents constantly move to wherever their research takes them. When he gets to school, no one seems to notice anything strange or different about him except Harris, a kid obsessed with science fiction and aliens. Harris sees Zeke doing extraordinary things but can't convince anyone, least of all his best friend, Roxy, that Zeke might be an alien. Roxy just thinks Harris is jealous that she's becoming friends with Zeke. But when Roxy invites Zeke over to Harris's house, will Harris find a way to prove that he's right?

Yichang municipality, Hubei province, China, early 1970s. High-school student Jingqiu is one of many educated urban youth sent to the countryside to be "re-educated" under a dictate from Chairman Mao. Jing's father is a political prisoner somewhere in China, and her mother, a former teacher branded as a "capitalist," is now reduced to menial work to support Jing and her two younger siblings. When Jing arrives with a group at Xiping village in the Yangtze River's Three Gorges region, she meets geology student Jianxin, nicknamed

"Old Three," who is the son of a high-ranking military officer, but whose mother committed suicide after being branded a "rightist." Despite their disparate social backgrounds and a political atmosphere that forbids the relationship, Jingqiu and Jianxin fall desperately in love. But their budding romance is cut short by fate... A sensitive and searing love story, *Under the Hawthorn Tree* is sure to become an instant classic. How to educate the next generation of college students to invent, to create, and to discover—filling needs that even the most sophisticated robot cannot. Driverless cars are hitting the road, powered by artificial intelligence. Robots can climb stairs, open doors, win Jeopardy, analyze stocks, work in factories, find parking spaces, advise oncologists. In the past, automation was considered a threat to low-skilled labor. Now, many high-skilled functions, including interpreting medical images, doing legal research, and analyzing data, are within the skill sets of machines. How can higher education prepare students for their professional lives when professions themselves are disappearing? In *Robot-Proof*, Northeastern University president Joseph Aoun proposes a way to educate the next generation of college students to invent, to create, and to discover—to fill needs in society that even the most sophisticated artificial intelligence agent cannot. A “robot-proof” education, Aoun argues, is not concerned solely with topping up students' minds with high-octane facts. Rather, it calibrates them with a creative mindset and the mental elasticity to invent, discover, or create something valuable to society—a scientific proof, a hip-hop recording, a web comic, a cure for cancer. Aoun lays out the framework for a new discipline, humanics, which builds on our innate strengths and prepares students to compete in a labor market in which smart machines work alongside human professionals. The new literacies of Aoun's humanics are data literacy, technological literacy, and human literacy. Students will need data literacy to manage the flow of big data, and technological literacy to know how their machines work, but human literacy—the humanities, communication, and design—to function as a human being. Life-long learning opportunities will support their ability to adapt to change. The only certainty about the future is change. Higher education based on the new literacies of humanics can equip students for living and working through change. Genetic algorithms are playing an increasingly important role in studies of complex adaptive systems, ranging from adaptive agents in economic theory to the use of machine learning techniques in the design of complex devices such as aircraft turbines and integrated circuits. *Adaptation in Natural and Artificial Systems* is the book that initiated this field of study, presenting the theoretical foundations and exploring applications. In its most familiar form, adaptation is a biological process, whereby organisms evolve by rearranging genetic material to survive in environments confronting them. In this now classic work, Holland presents a mathematical model that allows for the nonlinearity of such complex interactions. He demonstrates the model's universality by applying it to economics, physiological psychology, game theory, and artificial intelligence and then outlines the way in which this approach modifies the traditional views of mathematical genetics. Initially applying his concepts to simply defined artificial systems with limited numbers of parameters, Holland goes on to explore their use in the study of a wide range of complex, naturally occurring processes, concentrating on systems having multiple factors that interact in nonlinear ways. Along the way he accounts for major effects of coadaptation and coevolution: the emergence of building blocks, or schemata, that are recombined and passed on to succeeding generations to provide, innovations and improvements. A thorough look at how societies can use cultural algorithms to understand human social evolution For those working in computational intelligence, developing an understanding of how cultural algorithms and social intelligence form the essential framework for the evolution of human social interaction is essential. This book, *Cultural Algorithms: Tools to Model Complex Dynamic Social Systems*, is the foundation of that study. It showcases how we can use cultural algorithms to organize social structures and develop socio-political systems that work. For such a vast topic, the text covers everything from the history of the development of cultural algorithms and the basic framework with which it was organized. Readers will also learn how other nature-inspired algorithms can be expressed and how to use social metrics to assess the performance of various algorithms. In addition to these topics, the book covers topics including: The CAT system including the Repast Symphony System and CAT Sample Runs How to problem solve using social networks in cultural algorithms with auctions Understanding Common Value Action to enhance Social Knowledge Distribution Systems Case studies on team formations An exploration of virtual worlds using cultural algorithms For industry professionals or new students, *Cultural Algorithms* provides an impactful and thorough look at both social intelligence and how human social evolution translates into the modern world. Isabel Allende evokes the magnificent landscapes of her country; a charming, idiosyncratic Chilean people with a violent history and an indomitable spirit, and the politics, religion, myth, and magic of her homeland that she carries with her even today. The book circles around two life-changing moments. The assassination of her uncle Salvador Allende Gossens on September 11, 1973, sent her into exile and transformed her into a literary writer. And the terrorist attacks of September 11, 2001, on her adopted homeland, the United States, brought forth an overdue acknowledgment that Allende had indeed left home. *My Invented Country*, mimicking the workings of memory itself, ranges back and forth across that distance between past and present lives. It speaks compellingly to immigrants and to all of us who try to retain a coherent inner life in a world full of contradictions. Move over C S Lewis and Roald Dahl. There's a new storyteller on the rise and she's only 11 years old. Prepare to rediscover the value of friendship when family lets you down. In this mysterious true-to-life story, Aimi, Roci, Mousi, Sybil and Sycamore are a loose group of friends, aka The Bunch, who attend school together. The Bunch go to a 150-year old church camp, Mount Hermon, founded around the time of the first gold rush in 1849. The camp is located in a giant forest in the Santa Cruz mountains of California, just over the hill from Silicon Valley. In keeping with the principles of its founders, Bart, Prissie and their adopted son, Artie, the camp administrators have created a modern day refuge for children like the Bunch who live at a time when many people around them, including their parents, are chasing new gold nearby. Each member of the Bunch becomes seemingly inexplicably lost in the giant forest. They must each find themselves, then find one another before they can together again find their way home. Along the way they are baffled at why they receive help from new animal friend. Each member of the Bunch battles with and finds resolution to problems they face at home from overbearing or neglectful parents, sibling rivalry, prejudice, betrayal and displaced loyalty. When the five become reunited, bigger battles ensue. To return home they must overcome giants that have plagued them throughout their lost experience. If victorious, the Bunch can return to Mt. Hermon with the help of their new forest friends. A chapter book for for preteens who love to read. --- In this frame narrative, the second book in the *Growing Up Aimi Series*, Aimi is on a peace corps mission in the deepest jungles of India. Her first priority is the safety of the children she came to serve. Her second is to teach them to love to read. Miss A reads a book to the children about an earlier time of mystery when the high tech world threatened her friends and their new school. The young people determined to implement an old school approach to meet the challenges of the high-tech antics of adults bent on becoming the next unicorn in Silicon Valley. All the while, the school and children where Miss A is serving face the danger of being lost to the forces of

time. Remember the impact that teachers and mentors have had on you and your life when parents and children, teachers and students read *The Heliuna Academy* together. The questions at the end of each chapter are student/teacher, parent/child and reader group tested. Go deeper in the relationships that are important to you. Can Aimi and her friends learn why their beloved teachers have gone missing? Can they stop the tides of change? Only the reader knows. --- I, Aimi, stood motionless as I peered through the just-closed final curtain. A few moments ago, we put a wrap on the last performance of our unique take on *Beauty & the Beast*. We called it - *The Rose and the Thorn*. Welcome to Book 3 in the *Growing Up Aimi Series*. Historical fiction? Mystery? Coming of Age? Or all. The reader knows. I guess the thinking is, or was, that if our school can twist Roald Dahl's *Charlie and the Chocolate Factory* to our tastes, then Disney's *Beauty and the Beast* would be fair game as well. Or, should I say, Gabrielle-Suzanne Barbot de Villeneuve's *Beauty and the Beast*. She wrote it, gee, like, almost 200 years ago. I won't say her name, however, for fear I say it wrong and Violet gets offended. She's like that and will know how to say it. Not just because she is from France, but can speak French. And she does love to point it out to me when I make a mistake. --- Book 1, *The Giant Forest*, Aimi was in the 5th grade. Book 2, *The Heliuna Academy*, Aimi was in the 6th grade. Book 3, *The LoGlas Theater*, Aimi is now in the 7th grade. No magic, no time-travel, no fantastical beasts. Just good clean story telling as we watch and grow along with Aimi Wilby. AI is an integral part of every video game. This book helps professionals keep up with the constantly evolving technological advances in the fast growing game industry and equips students with up-to-date information they need to jumpstart their careers. This revised and updated Third Edition includes new techniques, algorithms, data structures and representations needed to create powerful AI in games. Key Features A comprehensive professional tutorial and reference to implement true AI in games Includes new exercises so readers can test their comprehension and understanding of the concepts and practices presented Revised and updated to cover new techniques and advances in AI Walks the reader through the entire game AI development process 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. Do you want to learn how to draw super cute chibi characters? Are you looking for a brilliant guide to help you master this cute and adorable art style? Then it's time to try this book! ?Inside this delightful drawing guide, you'll uncover how you can begin drawing an amazing range of different chibi characters! Packed with easy-to-follow instructions, as well as loads of fun and loveable step-by-step illustrations for you to practice with, this book is the perfect tool for anybody who wants to learn to draw chibi characters. Inside you'll find: Simple Drawing Instructions That Even a Beginner Can Follow A Wide Range of Images Designed To Unlock Your Inner Artist Ideal For All Ages and Skill Levels And Provides Hours Upon Hours of Drawing Fun! So if you're searching for the best way to unleash your creativity and dive into the wonderful world of chibi, then you've come to the right place. Even if you're brand-new to drawing, this guide contains everything you need to know and more! Ancillary Justice is Ann Leckie's stunning debut -- the only novel to ever win the Hugo, Nebula, and Arthur C. Clarke awards -- about a ship's AI who becomes trapped in a human body and her quest for revenge. A must read for fans of Ursula K. Le Guin and James S. A. Corey. "There are few who write science fiction like Ann Leckie can. There are few who ever could." -- John Scalzi On a remote, icy planet, the soldier known as Breq is drawing closer to completing her quest. Once, she was the Justice of Toren -- a colossal starship with an artificial intelligence linking thousands of soldiers in the service of the Radch, the empire that conquered the galaxy. Now, an act of treachery has ripped it all away, leaving her with one fragile human body, unanswered questions, and a burning desire for vengeance. In the second book of the *Alien Next Door* series, Harris and Roxy go over to Zeke's house and meet his strange family. Will Harris be able to prove to her that they're all aliens? Harris has his suspicions that the new kid at school, Zeke, is an alien, but he hasn't been able to prove it to his best friend, Roxy. When they're both invited over to Zeke's house, Harris thinks this is the perfect opportunity for him to research Zeke's alien family and show Roxy that they're all from another planet. But Roxy is perfectly fine playing with all of Zeke's alien technology which she just thinks is "hi-tech," and as a thank you, Harris's parents invite Zeke's parents over for dinner. At dinner, no one but Harris seems to notice all the strange things Zeke's family is doing-like making food levitate to their mouths. However, Zeke realizes that Harris is the only one noticing these things and decides to use this opportunity to have a little more fun at dinner. . . . This edited research monograph brings together contributions from computer scientists, biologists, and engineers who are engaged with the study of evolution and how it may be applied to solve real-world problems. It also serves as a Festschrift dedicated to Erik D. Goodman, the founding director of the BEACON Center for the Study of Evolution in Action, a pioneering NSF Science and Technology Center headquartered at Michigan State University. The contributing authors are leading experts associated with the center, and they serve in top research and industrial establishments across the US and worldwide. Part I summarizes the history of the BEACON Center, with refreshingly personal chapters that describe Erik's working and leadership style, and others that discuss the development and successes of the center in the context of research funding, projects, and careers. The chapters in Part II deal with the evolution of genomes and evolvability. The contributions in Part III discuss the evolution of behavior and intelligence. Those in Part IV concentrate on the evolution of communities and collective dynamics. The chapters in Part V discuss selected evolutionary computing applications in domains such as arts and science, automated program repair, cybersecurity, mechatronics, and genomic

prediction. Part VI deals with evolution in the classroom, using creativity in research, and responsible conduct in research training. The book concludes with a special chapter from Erik Goodman, a short biography that concentrates on his personal positive influences and experiences throughout his long career in academia and industry. How will artificial intelligence change our world within twenty years? A WALL STREET JOURNAL, WASHINGTON POST, AND FINANCIAL TIMES BEST BOOK OF THE YEAR • “This inspired collaboration between a pioneering technologist and a visionary writer of science fiction offers bold and urgent insights.”—Yann LeCun, winner of the Turing Award; chief AI scientist, Facebook “Amazingly entertaining . . . Lee and Chen take us on an immersive trip through the future. . . . Eye-opening.”—Mark Cuban AI will be the defining development of the twenty-first century. Within two decades, aspects of daily human life will be unrecognizable. AI will generate unprecedented wealth, revolutionize medicine and education through human-machine symbiosis, and create brand-new forms of communication and entertainment. In liberating us from routine work, however, AI will also challenge the organizing principles of our economic and social order. Meanwhile, AI will bring new risks in the form of autonomous weapons and smart technology that inherits human bias. AI is at a tipping point, and people need to wake up—both to AI’s radiant pathways and its existential perils for life as we know it. In this provocative, utterly original work, Kai-Fu Lee, the former president of Google China and bestselling author of *AI Superpowers*, teams up with celebrated novelist Chen Qiufan to imagine our world in 2041 and how it will be shaped by AI. In ten gripping short stories, they introduce readers to an array of eye-opening 2041 settings, such as: • In San Francisco, the “job reallocation” industry emerges as deep learning AI causes widespread job displacement • In Tokyo, a music fan is swept up in an immersive form of celebrity worship based on virtual reality and mixed reality • In Mumbai, a teenage girl rebels when AI’s crunching of big data gets in the way of romance • In Seoul, virtual companions with perfected natural language processing (NLP) skills offer orphaned twins new ways to connect • In Munich, a rogue scientist draws on quantum computing, computer vision and other AI technologies in a revenge plot that imperils the world By gazing toward a not-so-distant horizon, *AI 2041* offers urgent insights into our collective future—while reminding readers that, ultimately, humankind remains the author of its destiny. In the first book of the *Alien Next Door* series, now being published in Spanish, an alien boy named Zeke tries to fit in and adjust to life on Earth, while a classmate, Harris, suspects that Zeke might not be quite what he claims to be. Zeke the alien is on his way to his first day of school, feeling down because he has to start over again on a new planet, as his scientist parents constantly move to wherever their research takes them. When he gets to school, no one seems to notice anything strange or different about him except Harris, a kid obsessed with science fiction and aliens. Harris sees Zeke doing extraordinary things but can’t convince anyone, least of all his best friend, Roxy, that Zeke might be an alien. Roxy just thinks Harris is jealous that she’s becoming friends with Zeke. But when Roxy invites Zeke over to Harris’s house, will Harris find a way to prove that he’s right? Emergent readers will learn to recognize vowel blends through short sentences and full-color photographs that illustrate the vowel blended word used in the sentence. A detailed and up-to-date introduction to machine learning, presented through the unifying lens of probabilistic modeling and Bayesian decision theory. This book offers a detailed and up-to-date introduction to machine learning (including deep learning) through the unifying lens of probabilistic modeling and Bayesian decision theory. The book covers mathematical background (including linear algebra and optimization), basic supervised learning (including linear and logistic regression and deep neural networks), as well as more advanced topics (including transfer learning and unsupervised learning). End-of-chapter exercises allow students to apply what they have learned, and an appendix covers notation. Probabilistic Machine Learning grew out of the author’s 2012 book, *Machine Learning: A Probabilistic Perspective*. More than just a simple update, this is a completely new book that reflects the dramatic developments in the field since 2012, most notably deep learning. In addition, the new book is accompanied by online Python code, using libraries such as scikit-learn, JAX, PyTorch, and Tensorflow, which can be used to reproduce nearly all the figures; this code can be run inside a web browser using cloud-based notebooks, and provides a practical complement to the theoretical topics discussed in the book. This introductory text will be followed by a sequel that covers more advanced topics, taking the same probabilistic approach. Melanie Mitchell separates science fact from science fiction in this sweeping examination of the current state of AI and how it is remaking our world No recent scientific enterprise has proved as alluring, terrifying, and filled with extravagant promise and frustrating setbacks as artificial intelligence. The award-winning author Melanie Mitchell, a leading computer scientist, now reveals AI’s turbulent history and the recent spate of apparent successes, grand hopes, and emerging fears surrounding it. In *Artificial Intelligence*, Mitchell turns to the most urgent questions concerning AI today: How intelligent—really—are the best AI programs? How do they work? What can they actually do, and when do they fail? How humanlike do we expect them to become, and how soon do we need to worry about them surpassing us? Along the way, she introduces the dominant models of modern AI and machine learning, describing cutting-edge AI programs, their human inventors, and the historical lines of thought underpinning recent achievements. She meets with fellow experts such as Douglas Hofstadter, the cognitive scientist and Pulitzer Prize-winning author of the modern classic *Gödel, Escher, Bach*, who explains why he is “terrified” about the future of AI. She explores the profound disconnect between the hype and the actual achievements in AI, providing a clear sense of what the field has accomplished and how much further it has to go. Interweaving stories about the science of AI and the people behind it, *Artificial Intelligence* brims with clear-sighted, captivating, and accessible accounts of the most interesting and provocative modern work in the field, flavored with Mitchell’s humor and personal observations. This frank, lively book is an indispensable guide to understanding today’s AI, its quest for “human-level” intelligence, and its impact on the future for us all.

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