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What enables
individually simple

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insects like ants to act with such precision and purpose as a group? How do trillions of neurons produce something as extraordinarily complex as consciousness? In

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this remarkably clear
and companionable book,
leading complex systems
scientist Melanie
Mitchell provides an
intimate tour of the
sciences of complexity,

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a broad set of efforts
that seek to explain how
large-scale complex,
organized, and adaptive
behavior can emerge from
simple interactions
among myriad

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individuals. Based on her work at the Santa Fe Institute and drawing on its interdisciplinary strategies, Mitchell brings clarity to the workings of complexity

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across a broad range of
biological,
technological, and
social phenomena,
seeking out the general
principles or laws that
apply to all of them.

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Richly illustrated,
Complexity: A Guided
Tour--winner of the 2010
Phi Beta Kappa Book
Award in Science--offers
a wide-ranging overview
of the ideas underlying

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complex systems science,
the current research at
the forefront of this
field, and the prospects
for its contribution to
solving some of the most
important scientific

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questions of our time.

Artificial Intelligence A
Guide for Thinking
Humans Farrar, Straus and
Giroux

Can machines really
think? Is the mind just

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a complicated computer program? This book focuses on the major issues behind one of the hardest scientific problems ever undertaken, from Alan

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Turing's influential
groundwork to cutting-
edge robotics and the
new AI.

Artificial intelligence
(AI) is a field within
computer science that is

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attempting to build
enhanced intelligence
into computer systems.
This book traces the
history of the subject,
from the early dreams of
eighteenth-century (and

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earlier) pioneers to the more successful work of today's AI engineers. AI is becoming more and more a part of everyone's life. The technology is already

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embedded in face-
recognizing cameras,
speech-recognition
software, Internet
search engines, and
health-care robots,
among other

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applications. The book's many diagrams and easy-to-understand descriptions of AI programs will help the casual reader gain an understanding of how

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these and other AI systems actually work. Its thorough (but unobtrusive) end-of-chapter notes containing citations to important source materials will be

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of great use to AI
scholars and
researchers. This book
promises to be the
definitive history of a
field that has
captivated the

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imaginations of
scientists,
philosophers, and
writers for centuries.
Artificial Intelligence
in Finance
A Guide for Thinking

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Humans

Artificial Intelligence
For Dummies

Artificial Intelligence
in Schools

Understanding Artificial
Intelligence

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Artificial Intelligence

A concise but informative overview of AI ethics and policy. Artificial intelligence, or AI for short, has generated a staggering amount of hype in the past several years. Is

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*it the game-changer it's
been cracked up to be? If
so, how is it changing the
game? How is it likely to
affect us as customers,
tenants, aspiring home-
owners, students, educators,
patients, clients, prison*

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*inmates, members of ethnic
and sexual minorities,
voters in liberal
democracies? This book
offers a concise overview of
moral, political, legal and
economic implications of AI.
It covers the basics of AI's*

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latest permutation, machine learning, and considers issues including transparency, bias, liability, privacy, and regulation.

Unique graphic guide to the fascinating developments in

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*AI and their philosophical
implications*

*If you want to learn key AI
concepts to get you quickly
up to speed with all things
AI, then keep reading Two
manuscripts in one book:
Artificial Intelligence:*

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*What You Need to Know About
Machine Learning, Robotics,
Deep Learning, Recommender
Systems, Internet of Things,
Neural Networks,
Reinforcement Learning, and
Our Future Internet of
Things: What You Need to*

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*Know About IoT, Big Data,
Predictive Analytics,
Artificial Intelligence,
Machine Learning,
Cybersecurity, Business
Intelligence, Augmented
Reality and Our Future This
book covers everything from*

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*machine learning to robotics
and the internet of things.
You can use it as a nifty
guidebook whenever you come
across news headlines that
talk about some new
advancement in AI by Google
or Facebook. By the time you*

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finish reading, you will be aware of what artificial neural networks are, how gradient descent and back propagation work, and what deep learning is. You will also learn a comprehensive history of AI, from the

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first invention of automations in antiquity to the driver-less cars of today. In part 1 of this book, you will: Understand how machines can "think" and how they learn Learn the five reasons why experts are

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warning us about AI research Find the answers to the top six myths of artificial intelligence Learn what neural networks are and how they work, the "brains" of machine learning Understand reinforcement learning and

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*how it is used to teach
machine learning systems
through experience Become up-
to-date with the current
state-of-the-art artificial
intelligence methods that
use deep learning Learn the
basics of recommender*

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*systems Expand your current
view of machines and what is
possible with modern
robotics Enter the vast
world of the internet of
things technologies Find out
why AI is the new business
degree And much, much more!*

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*Some of the topics covered
in part 2 of this book
include: Origins of IoT IoT
Security Ethical Hacking
Internet of Things Under The
Cushy Foot of Tech Giants
The Power of Infinite Funds
IoT Toys Bio-robotics*

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*Predictive Analytics Machine
Learning Artificial
Intelligence Cybersecurity
Big Data Business
Intelligence Augmented
Reality Virtual Reality Our
Future And much, much more
If you want to learn more*

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*about the artificial
intelligence and internet of
things, then scroll up and
click "add to cart"!*

*One of Mark Cuban's top
reads for better
understanding A.I. (inc.com,
2021) Your comprehensive*

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entry-level guide to machine learning While machine learning expertise doesn't quite mean you can create your own Turing Test-proof android—as in the movie Ex Machina—it is a form of artificial intelligence and

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*one of the most exciting
technological means of
identifying opportunities
and solving problems fast
and on a large scale. Anyone
who masters the principles
of machine learning is
mastering a big part of our*

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*tech future and opening up
incredible new directions in
careers that include fraud
detection, optimizing search
results, serving real-time
ads, credit-scoring,
building accurate and
sophisticated pricing*

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models—and way, way more.

Unlike most machine learning books, the fully updated 2nd Edition of Machine Learning For Dummies doesn't assume you have years of experience using programming languages such as Python (R source is

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also included in a downloadable form with comments and explanations), but lets you in on the ground floor, covering the entry-level materials that will get you up and running building models you need to

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*perform practical tasks. It
takes a look at the
underlying—and
fascinating—math principles
that power machine learning
but also shows that you
don't need to be a math whiz
to build fun new tools and*

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*apply them to your work and
study. Understand the
history of AI and machine
learning Work with Python
3.8 and TensorFlow 2.x (and
R as a download) Build and
test your own models Use the
latest datasets, rather than*

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*the worn out data found in
other books Apply machine
learning to real problems
Whether you want to learn
for college or to enhance
your business or career
performance, this friendly
beginner's guide is your*

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best introduction to machine learning, allowing you to become quickly confident using this amazing and fast-developing technology that's impacting lives for the better all over the world.

Humans Need Not Apply

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A Guided Tour

*Your Pocket Guide to the
World of Artificial
Intelligence
Complexity*

*Python: Advanced Guide to
Artificial Intelligence*

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Cutting through the
hype, a practical guide
to using artificial
intelligence for
business benefits and
competitive advantage.
In The AI Advantage,

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Thomas Davenport offers a guide to using artificial intelligence in business. He describes what technologies are available and how

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companies can use them for business benefits and competitive advantage. He cuts through the hype of the AI craze—remember when it seemed plausible that

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IBM's Watson could cure cancer?—to explain how businesses can put artificial intelligence to work now, in the real world. His key recommendation: don't go

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for the “moonshot”
(curing cancer, or synthesizing all investment knowledge);
look for the “low-hanging fruit” to make your company more

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efficient. Davenport explains that the business value AI offers is solid rather than sexy or splashy. AI will improve products and processes and make

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decisions better
informed—important but
largely invisible tasks.
AI technologies won't
replace human workers
but augment their
capabilities, with smart

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machines to work alongside smart people. AI can automate structured and repetitive work; provide extensive analysis of data through machine

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learning (“analytics on steroids”), and engage with customers and employees via chatbots and intelligent agents. Companies should experiment with these

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technologies and develop
their own expertise.

Davenport describes the
major AI technologies
and explains how they
are being used, reports
on the AI work done by

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large commercial enterprises like Amazon and Google, and outlines strategies and steps to becoming a cognitive corporation. This book provides an invaluable

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guide to the real-world
future of business AI. A
book in the Management
on the Cutting Edge
series, published in
cooperation with MIT
Sloan Management Review.

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There are many myths and mistakes which make the topics of artificial intelligence complex and confusing. But the truth is that the foundations of AI are not rocket

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science. People do not need a PhD to understand how a basic neural network works. In fact, one does not even need computer skills to learn this. Cunning Machines:

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Your Pocket Guide to the
World of Artificial
Intelligence explains
the main concepts: what
does AI really mean,
where do we find it, how
do scientists try to

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evaluate it, what are its main limitations and what future we can expect with it? It also describes the most popular AI techniques in an easy-to-digest form:

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Artificial neural
networks Genetic
algorithms The Monte
Carlo method Natural
language processing
Ontologies and their
applications This book

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is for everyone. Still, it may be especially valuable to teachers who wish to enrich their classes with some interesting and popular topics, sales managers

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and business analysts
who wish to better
understand the IT world,
and finally politicians
and journalists who take
part in debates on the
latest technologies.

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J?drzej Osi?ski earned a PhD in artificial intelligence, has worked on government grants and has published 14 scientific papers to date. He is also the co-

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author of two books. At the same time, he has over ten years of experience working in IT companies of different sizes, domains (the web, telecoms, banking, e-

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learning), organisation structures and locations (Poland, Ireland and the UK). He is also involved in various initiatives promoting AI, science and modern technologies

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including blog posts,
invited talks and TV and
radio appearances
Demystify the complexity
of machine learning
techniques and create
evolving, clever

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solutions to solve your
problems Key
Features Master
supervised,
unsupervised, and semi-
supervised ML algorithms
and their implementation

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Build deep learning models for object detection, image classification, similarity learning, and more. Build, deploy, and scale end-to-end deep

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neural network models in a production environment

Book Description This Learning Path is your complete guide to quickly getting to grips

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with popular machine learning algorithms. You'll be introduced to the most widely used algorithms in supervised, unsupervised, and semi-

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supervised machine learning, and learn how to use them in the best possible manner. Ranging from Bayesian models to the MCMC algorithm to Hidden Markov models,

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this Learning Path will teach you how to extract features from your dataset and perform dimensionality reduction by making use of Python-based libraries. You'll

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bring the use of TensorFlow and Keras to build deep learning models, using concepts such as transfer learning, generative adversarial networks,

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and deep reinforcement learning. Next, you'll learn the advanced features of TensorFlow1.x, such as distributed TensorFlow with TF clusters, deploy

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production models with TensorFlow Serving.

You'll implement different techniques related to object classification, object detection, image

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segmentation, and more.

By the end of this Learning Path, you'll have obtained in-depth knowledge of TensorFlow, making you the go-to person for solving

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artificial intelligence problems This Learning Path includes content from the following Packt products: Mastering Machine Learning Algorithms by Giuseppe

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Bonaccorso Mastering
TensorFlow 1.x by
Armando Fandango Deep
Learning for Computer
Vision by Rajalingappaa
Shanmugamani What you
will learn Explore how an

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ML model can be trained,
optimized, and
evaluated Work with
Autoencoders and
Generative Adversarial
Networks Explore the most
important Reinforcement

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Learning techniques Build end-to-end deep learning (CNN, RNN, and Autoencoders) models Who this book is for This Learning Path is for data scientists, machine

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learning engineers, artificial intelligence engineers who want to delve into complex machine learning algorithms, calibrate models, and improve the

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predictions of the trained model. You will encounter the advanced intricacies and complex use cases of deep learning and AI. A basic knowledge of programming

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in Python and some understanding of machine learning concepts are required to get the best out of this Learning Path.

Artificial Intelligence

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(AI) fascinates,
challenges and disturbs
us. There are many
voices in society that
predict drastic changes
that may come as a
consequence of AI – a

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possible apocalypse or Eden on earth. However, only a few people truly understand what AI is, what it can do and what its limitations are.

Understanding Artificial

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Intelligence explains,
through a
straightforward
narrative and amusing
illustrations, how AI
works. It is written for
a non-specialist reader,

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adult or adolescent, who is interested in AI but is missing the key to understanding how it works. The author demystifies the creation of the so-called

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"intelligent" machine and explains the different methods that are used in AI. It presents new possibilities offered by algorithms and the

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difficulties that researchers, engineers and users face when building and using such algorithms. Each chapter allows the reader to discover a new aspect of

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AI and to become fully aware of the possibilities offered by this rich field.

Human Compatible
Artificial Intelligence
and Machine Learning for

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Business

Artificial Intelligence
for Marketing
Healthcare and
Artificial Intelligence
Enterprise Artificial
Intelligence

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Transformation

Rebooting AI

So, what is the deal with intelligent machines? Will they soon decide on things such as copyright infringement? How about self-

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driving trucks and cars?

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

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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

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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

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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

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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

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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
A leading artificial

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intelligence researcher lays out a new approach to AI that will enable people to coexist successfully with increasingly intelligent machines.

This jargon-free guide introduces the futuristic

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world of Artificial

Intelligence, the science of
creating machines that can
think for themselves.

A Handbook of
Professionalism

Deep Learning Illustrated

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The Ultimate Guide to AI,
The Internet of Things,
Machine Learning, Deep
Learning + a Comprehensive
Guide to Robotics
Building Artificial Intelligence
We Can Trust

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Why Computers Can't Think
the Way We Do

A Human's Guide to Machine
Intelligence

Artificial intelligence (AI) has now
mastered tasks which could, until recently,
be performed only by humans. These tasks

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include cancer diagnosis, drug design, object recognition, speech recognition, chess, backgammon and Go, which AI systems perform at super-human levels of performance. This richly illustrated book is a brief but comprehensive overview (without equations) of current AI systems, how they work, their applications, and

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their limitations. Artificial neural networks, which are the engines of AI, are introduced in the context of deep learning algorithms. After surveying the impressive capabilities of AI systems on certain tasks, the limited ability of AI to perform tasks that humans find trivial is discussed. The strengths and weaknesses of the key neural

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network learning algorithms employed by AI are then described. Finally, the question of whether AI systems can be intelligent is discussed, along with the controversial issue of machine consciousness. Written in an informal style, with a comprehensive Glossary and a list of Further Readings, this book

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represents an ideal introduction to the rapidly evolving field of AI.

Artificial Intelligence (AI) and Machine Learning are now mainstream business tools. They are being applied across many industries to increase profits, reduce costs, save lives and improve customer experiences. Organizations which

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understand these tools and know how to use them are benefiting at the expense of their rivals. Artificial Intelligence and Machine Learning for Business cuts through the hype and technical jargon that is often associated with these subjects. It delivers a simple and concise introduction for managers and business people. The

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focus is very much on practical application and how to work with technical specialists (data scientists) to maximize the benefits of these technologies. This third edition has been substantially revised and updated. It contains several new chapters and covers a broader set of topics than before, but retains the no-nonsense style of

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the original.

Addresses controversial issues that have been raised by the emergence and growth of artificial intelligence, providing discussion of the effects of funding from military sources, legal aspects of AI, the effect of AI in the workplace, and the Code for Professional Conduct for AI

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Two leaders in the field offer a compelling
analysis of the current state of the art and
reveal the steps we must take to achieve a
truly robust artificial intelligence. Despite
the hype surrounding AI, creating an

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intelligence that rivals or exceeds human levels is far more complicated than we have been led to believe. Professors Gary Marcus and Ernest Davis have spent their careers at the forefront of AI research and have witnessed some of the greatest milestones in the field, but they argue that a computer beating a human in Jeopardy!

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does not signal that we are on the doorstep of fully autonomous cars or superintelligent machines. The achievements in the field thus far have occurred in closed systems with fixed sets of rules, and these approaches are too narrow to achieve genuine intelligence. The real world, in contrast, is wildly

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complex and open-ended. How can we bridge this gap? What will the consequences be when we do? Taking inspiration from the human mind, Marcus and Davis explain what we need to advance AI to the next level, and suggest that if we are wise along the way, we won't need to worry about a future of

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machine overlords. If we focus on endowing machines with common sense and deep understanding, rather than simply focusing on statistical analysis and gathering ever larger collections of data, we will be able to create an AI we can trust--in our homes, our cars, and our doctors' offices. Rebooting AI provides a

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lucid, clear-eyed assessment of the current science and offers an inspiring vision of how a new generation of AI can make our lives better.

Practical Applications

How Algorithms Are Shaping Our Lives
and How We Can Stay in Control

An Essential Beginner's Guide to AI,

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Machine Learning, Robotics, The Internet
of Things, Neural Networks, Deep
Learning, Reinforcement Learning, and
Our Future

A Citizen's Guide to Artificial Intelligence

The Myth of Artificial Intelligence

Machine Learning For Dummies

The widespread adoption of

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AI and machine learning is revolutionizing many industries today. Once these technologies are combined with the programmatic availability of historical and real-

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time financial data, the financial industry will also change fundamentally. With this practical book, you'll learn how to use AI and machine learning to discover statistical

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inefficiencies in
financial markets and
exploit them through
algorithmic trading.
Author Yves Hilpisch shows
practitioners, students,
and academics in both

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finance and data science practical ways to apply machine learning and deep learning algorithms to finance. Thanks to lots of self-contained Python examples, you'll be able

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to replicate all results
and figures presented in
the book. In five parts,
this guide helps you:
Learn central notions and
algorithms from AI,
including recent

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breakthroughs on the way
to artificial general
intelligence (AGI) and
superintelligence (SI)
Understand why data-driven
finance, AI, and machine
learning will have a

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lasting impact on
financial theory and
practice Apply neural
networks and reinforcement
learning to discover
statistical inefficiencies
in financial markets

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Identify and exploit
economic inefficiencies
through backtesting and
algorithmic trading--the
automated execution of
trading strategies
Understand how AI will

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influence the competitive dynamics in the financial industry and what the potential emergence of a financial singularity might bring about
This book provides an

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overview of the role of AI in medicine and, more generally, of issues at the intersection of mathematics, informatics, and medicine. It is intended for AI experts,

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offering them a valuable retrospective and a global vision for the future, as well as for non-experts who are curious about this timely and important subject. Its goal is to

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provide clear, objective, and reasonable information on the issues covered, avoiding any fantasies that the topic "AI" might evoke. In addition, the book seeks to provide a

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broad kaleidoscopic perspective, rather than deep technical details. The third edition of this bestseller examines the principles of artificial intelligence and their

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application to engineering and science, as well as techniques for developing intelligent systems to solve practical problems. Covering the full spectrum of intelligent systems

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techniques, it
incorporates knowledge-
based systems,
computational
intelligence, and their
hybrids. Using clear and
concise language,

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Intelligent Systems for Engineers and Scientists, Third Edition features updates and improvements throughout all chapters. It includes expanded and separated chapters on

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genetic algorithms and single-candidate optimization techniques, while the chapter on neural networks now covers spiking networks and a range of recurrent

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networks. The book also provides extended coverage of fuzzy logic, including type-2 and fuzzy control systems. Example programs using rules and uncertainty are presented

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developed by the author, which describes in non – technical language the eight core capabilities of Artificial Intelligence (AI). Each of these capabilities, ranging from image recognition, through natural language processing, to prediction, is explained using real – life examples and how they

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can be applied in a business environment. It will include interviews with executives who have successfully implemented AI as well as CEOs from AI vendors and consultancies. AI is one of the most talked about technologies in business today. It has the ability to deliver step – change

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benefits to organisations and enables forward – thinking CEOs to rethink their business models or create completely new businesses. But most of the real value of AI is hidden behind marketing hyperbole, confusing terminology, inflated expectations and dire warnings of ‘robot overlords’. Any

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business executive that wants to know how to exploit AI in their business today is left confused and frustrated. As an advisor in Artificial Intelligence, Andrew Burgess regularly comes face – to – face with business executives who are struggling to cut through the hype that surrounds AI. The

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knowledge and experience he has gained in advising them, as well as working as a strategic advisor to AI vendors and consultancies, has provided him with the skills to help business executives understand what AI is and how they can exploit its many benefits. Through the distilled

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intelligence. So, what is artificial intelligence? If you have been reading the basics, you will know that artificial intelligence is a human being's attempt to make a machine smart enough to handle processes that a human being would normally do. It is not easy to do this, since you will need to understand

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the system and also learn the required programming languages to instruct the computer to behave in the required manner.

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common sense is based heavily on conjecture. Erik Larson argues that hyping existing methods will only hold us back from developing truly humanlike AI.

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the transition may be protracted and brutal unless we address the two great scourges of the modern developed world: volatile labor markets and income inequality. In *Humans Need Not Apply*, he proposes innovative, free-market adjustments to our economic

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system and social policies to avoid an extended period of social turmoil. His timely and accessible analysis of the promises and perils of AI is a must-read for business leaders and policy makers on both sides of the aisle. "A reminder that AI systems don't need red laser

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its impact on their jobs and lives.
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application to due diligence; AI and non-disclosure agreements; and the role of chatbots. Interviews with pioneers in the field are included, so readers get insights into the issues that people are dealing with in day-to-day actualities. Whether conceiving AI as a transformative

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