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processing,
Reinforcement learning,
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agents, Various search
algorithms, etc.

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another research area in
AI, neural networks, is
inspired from the natural

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neural network of human nervous system. ... BN can be used to learn the causal relationships and understand various problem domains and to predict future events, even in case of missing data. ... Conventionally, BNs are ...

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A machine with the ability to perform cognitive functions such as perceiving, learning, reasoning and solve problems are deemed to hold an artificial intelligence. Artificial intelligence exists when a machine has cognitive ability. The benchmark for AI is the human level concerning reasoning, speech, and vision. In

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this basic tutorial, you
will learn- What is AI?
Introduction to AI

Levels; A brief History of

Artificial Intelligence;

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What is AI? Artificial

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Expert systems (ES) are

one of the prominent

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research domains of AI.

It is introduced by the researchers at Stanford University, Computer Science Department. The expert systems are the computer applications developed to solve complex problems in a particular domain, at the level of extra-ordinary ...

Artificial Intelligence -
Expert Systems -

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AI with Python Tutorial.

Artificial intelligence is the intelligence demonstrated by machines, in contrast to the intelligence displayed by humans. This tutorial covers the basic concepts of various fields of artificial intelligence like Artificial Neural Networks, Natural Language Processing,

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Machine Learning, Deep Learning, Genetic algorithms etc., and its implementation in Python.

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This tutorial will give an introduction to machine learning and its implementation in Artificial Intelligence.

Audience. This tutorial

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has been prepared for professionals aspiring to learn the complete picture of machine learning and artificial intelligence. This tutorial caters the learning needs of both the novice learners and experts, to help them understand the concepts and implementation of artificial intelligence.

Prerequisites

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-Machine Learning
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narrow AI. It is called...

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at beginner level who
aspire to learn Artificial
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The problem is that the
starting point for artificial
intelligence always has to
be human intelligence.

Humans programme the
machines to learn and
develop in a certain way
– which means they

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The race problem with
Artificial Intelligence:

‘ Machines ...

Types of Artificial

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Intelligence can be

divided in various types,

there are mainly two

types of main

categorization which are

based on capabilities and

based on functionality of

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AI. Following is flow diagram which explain the types of AI. AI

type-1: Based on Capabilities 1. Weak AI or Narrow AI:

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covers concepts of Deep
Learning and T...

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Artificial Intelligence has
a remarkable role in
Robotics. Usually,
general robots are
programmed such that
they can perform some
repetitive task, but with
the help of AI, we can

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create intelligent robots which can perform tasks with their own experiences without pre-programmed.

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AI is a technique that enables machines to mimic human behavior. Artificial Intelligence is the theory and development of

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computer systems able to perform tasks normally requiring human intelligence, such as visual perception, speech recognition, decision-making and translation between languages.

Artificial Intelligence
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Artificial Intelligence is the intelligence that machines demonstrate. It

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allows us to create machines that can perform multiple tasks and solve real problems without error. As a matter of fact, AI can improve efficiency and productivity by automating repetitive tasks.

Build real-world Artificial

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Intelligence applications
with Python to
intelligently interact with
the world around you

About This Book Step
into the amazing world of
intelligent apps using this
comprehensive guide

Enter the world of
Artificial Intelligence,
explore it, and create
your own applications

Work through simple yet
insightful examples that

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will get you up and
running with Artificial
Intelligence in no time

Who This Book Is For

This book is for Python
developers who want to
build real-world Artificial
Intelligence applications.

This book is friendly to
Python beginners, but
being familiar with
Python would be useful
to play around with the
code. It will also be useful

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for experienced Python programmers who are looking to use Artificial Intelligence techniques in their existing technology stacks. What You Will Learn Realize different classification and regression techniques Understand the concept of clustering and how to use it to automatically segment data See how to build an intelligent

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Understand logic

programming and how

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and genetic

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Intelligence applications centered on images, text, and time series data See how to use deep learning algorithms and build applications based on it In Detail Artificial Intelligence is becoming increasingly relevant in the modern world where everything is driven by technology and data. It is used extensively across many fields such as search engines, image

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recognition, robotics, finance, and so on. We will explore various real-world scenarios in this book and you'll learn about various algorithms that can be used to build Artificial Intelligence applications. During the course of this book, you will find out how to make informed decisions about what algorithms to use in a given context. Starting

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from the basics of Artificial Intelligence, you will learn how to develop various building blocks using different data mining techniques. You will see how to implement different algorithms to get the best possible results, and will understand how to apply them to real-world scenarios. If you want to add an intelligence layer

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to any application that's
based on images, text,
stock market, or some

other form of data, this
exciting book on

Artificial Intelligence will
definitely be your guide!

Style and approach This
highly practical book will
show you how to

implement Artificial
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create smart applications to meet the needs of your organization. In every chapter, we explain an algorithm, implement it, and then build a smart application.

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hate) and the resulting catastrophe make for a powerful theatrical experience.

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Features Identify potential industry disruptors from various business domains and emerging technologies Leverage existing resources to identify new avenues for generating digital revenue Boost digital transformation with cloud computing, big data, artificial intelligence (AI), and the Internet of Things (IoT) Book

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Description Digital transformation requires the ability to identify opportunities across industries and apply the right technologies and tools to achieve results. This book is divided into two parts with the first covering what digital transformation is and why it is important. The second part focuses on how digital

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transformation works.

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book will take you through case studies in both private and public sector organizations. You'll explore private sector organizations such as industrial and hi-tech manufacturing in detail and get to grips with public sector organizations by learning how transformation can be achieved on a global scale and how the

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resident experience can be improved. In addition to this, you will

understand the role of artificial intelligence, machine learning and deep learning in digital transformation. Finally, you'll discover how to create a playbook that can ensure success in digital transformation. By the end of this book, you'll be well-versed with

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industrial digital
transformation and be
able to apply your skills
in the real world. What
you will learn
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transformation Get to
grips with various case
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and public
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and machine learning
How AI is involved in

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creating chatbots What
are chatbots Chatbot
development Live
chatting Create chatbot
with technologies such as
Amazon Lex, Google
Dialogflow, AWS
Lambda, Microsoft Bot
Framework, and Azure
Deploy and talk to your
bot Description This
book makes you familiar
with the concept of the
chatbot. It explains what

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chatbot is, how does a chatbot work, and what exactly is the need for a chatbot in today's era? It focuses on creating a bot using Amazon's Lex service and getting the bot deployed on Facebook messenger for live chatting. This book will train you on how to create a chatbot using Google's Dialogflow and test the bot in Dialogflow

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console. It also demonstrates how to create a custom chatbot using Microsoft's bot framework and enable the webhooks in Dialogflow and return the response from the custom bot to Dialogflow intents as a fulfillment response. What will you learn Learn the concept of chatbot Learn how chatbots and AI work

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Learn about Microsoft's

Bot Framework Write

your own custom

chatbot Deploy the

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to learn the cutting-edge
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get a hands-on
experience on AI by
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custom chatbots.

Organizations, small companies, service-based/product-based setups which want to learn how to create a basic chatbot on their website and on social media to get more leads and reach to the end user for their business.

Students, if they are seeking something where they can create and

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integrate the real-time chatbots in their projects. Table of

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1. Amazon Lex and AWS Account

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authorAkhil Mittal is two

times Microsoft MVP

(Most Valuable

Professional) firstly

awarded in 2016

continued in 2017 in

Visual Studio and

Technologies category,

C# Corner MVP since

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2013, Code Project MVP

since 2014, a blogger,
author and likes to

write/read technical
articles, blogs and books.

He works as a Sr.

Consultant with Magic
Edtech (<https://www.magicedtech.com/>) which is

recognized as a global
leader in delivering end
to end learning solutions.

He has an experience of
around 12 years in

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developing, designing,
architecting enterprises
level applications

primarily in Microsoft
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is an MCP (Microsoft
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linkedin: [linkedin.com/in/akhilmittal](https://www.linkedin.com/in/akhilmittal)

This book provides an understanding of the evolution of digitization in our day to day life and how it has become a part of our social system. The obvious challenges faced during this process and how these challenges were overcome have

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been discussed. The discussions revolve around the solutions to these challenges by leveraging the use of various advanced technologies. The book mainly covers the use of these technologies in variety of areas such as smart cities, healthcare informatics, transportation automation, digital

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transformation of education. The book intends to be treated as a source to provide the systematic discussion to the bouquet of areas that are essential part of digitized societies. In light of this, the book accommodates theoretical, methodological, well-established, and validated empirical work dealing

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challenges, and its
underlying technologies
in different applications

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areas. Using a series of present and future applications, such as indoor-outdoor securities, graphic signal processing, robotic surgery, image processing, character recognition, augmented reality, object detection and tracking, intelligent traffic monitoring, emergency department medical imaging, and

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and solutions to handle
relevant challenges.

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Big Data. Finally, this new edition explores various real-world scenarios and teaches you how to apply relevant AI algorithms to a wide swath of problems, starting with the most basic AI concepts and progressively building from there to solve more difficult challenges so that by the end, you will have

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engineering
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learning
Discover the most recent advances and tools offered for AI development in the

cloud
Develop automatic speech recognition systems and

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algorithms to time series
dataWho this book is for

The intended audience
for this book is Python
developers who want to
build real-world Artificial
Intelligence applications.

Basic Python

programming experience
and awareness of
machine learning
concepts and techniques
is mandatory.

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This book collects research works of data-driven medical diagnosis done via Artificial Intelligence based solutions, such as Machine Learning, Deep Learning and Intelligent Optimization. Physical devices powered with Artificial Intelligence are gaining importance in diagnosis and healthcare.

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Medical data from different sources can also be analyzed via Artificial Intelligence techniques for more effective results.

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