

# Artificial Intelligence



Any technique that enables computers to mimic human intelligence. It includes *machine learning*

## Machine Learning



A subset of AI that includes techniques that enable machines to improve at tasks with experience. It includes *deep learning*

## Deep Learning



A subset of machine learning based on neural networks that permit a machine to train itself to perform a task.

# Deep Learning Microsoft

**SJ Ball**



## Deep Learning Microsoft:

**Deep Learning with Azure** Mathew Salvaris, Danielle Dean, Wee Hyong Tok, 2018-08-24 Get up to speed with Microsoft's AI Platform Learn to innovate and accelerate with open and powerful tools and services that bring artificial intelligence to every data scientist and developer Artificial Intelligence AI is the new normal Innovations in deep learning algorithms and hardware are happening at a rapid pace It is no longer a question of should I build AI into my business but more about where do I begin and how do I get started with AI Written by expert data scientists at Microsoft Deep Learning with the Microsoft AI Platform helps you with the how to of doing deep learning on Azure and leveraging deep learning to create innovative and intelligent solutions Benefit from guidance on where to begin your AI adventure and learn how the cloud provides you with all the tools infrastructure and services you need to do AI What You'll Learn Become familiar with the tools infrastructure and services available for deep learning on Microsoft Azure such as Azure Machine Learning services and Batch AI Use pre built AI capabilities Computer Vision OCR gender emotion landmark detection and more Understand the common deep learning models including convolutional neural networks CNNs recurrent neural networks RNNs generative adversarial networks GANs with sample code and understand how the field is evolving Discover the options for training and operationalizing deep learning models on Azure Who This Book Is For Professional data scientists who are interested in learning more about deep learning and how to use the Microsoft AI platform Some experience with Python is helpful [Deep Learning with Microsoft Cognitive Toolkit Quick Start Guide](#) Willem Meints, 2019-03-28 Learn how to train popular deep learning architectures such as autoencoders convolutional and recurrent neural networks while discovering how you can use deep learning models in your software applications with Microsoft Cognitive Toolkit Key Features Understand the fundamentals of Microsoft Cognitive Toolkit and set up the development environment Train different types of neural networks using Cognitive Toolkit and deploy it to production Evaluate the performance of your models and improve your deep learning skills Book Description Cognitive Toolkit is a very popular and recently open sourced deep learning toolkit by Microsoft Cognitive Toolkit is used to train fast and effective deep learning models This book will be a quick introduction to using Cognitive Toolkit and will teach you how to train and validate different types of neural networks such as convolutional and recurrent neural networks This book will help you understand the basics of deep learning You will learn how to use Microsoft Cognitive Toolkit to build deep learning models and discover what makes this framework unique so that you know when to use it This book will be a quick no nonsense introduction to the library and will teach you how to train different types of neural networks such as convolutional neural networks recurrent neural networks autoencoders and more using Cognitive Toolkit Then we will look at two scenarios in which deep learning can be used to enhance human capabilities The book will also demonstrate how to evaluate your models performance to ensure it trains and runs smoothly and gives you the most accurate results Finally you will get a short overview of how Cognitive Toolkit fits in to a DevOps environment What you will learn Set up your deep learning

environment for the Cognitive Toolkit on Windows and Linux  
Pre process and feed your data into neural networks  
Use neural networks to make efficient predictions and recommendations  
Train and deploy efficient neural networks such as CNN and RNN  
Detect problems in your neural network using TensorBoard  
Integrate Cognitive Toolkit with Azure ML Services for effective deep learning  
Who this book is for Data Scientists Machine learning developers AI developers who wish to train and deploy effective deep learning models using Microsoft CNTK will find this book to be useful  
Readers need to have experience in Python or similar object oriented language like C or Java

**Learning Microsoft Azure** Jonah Carrio

Andersson,2023-11-20 If your organization plans to modernize services and move to the cloud from legacy software or a private cloud on premises this book is for you  
Software developers solution architects cloud engineers and anybody interested in cloud technologies will learn fundamental concepts for cloud computing migration transformation and development using Microsoft Azure  
Author and Microsoft MVP Jonah Carrio Andersson guides you through cloud computing concepts and deployment models the wide range of modern cloud technologies application development with Azure team collaboration services security services and cloud migration options in Microsoft Azure  
You ll gain insight into the Microsoft Azure cloud services that you can apply in different business use cases software development projects and modern solutions in the cloud  
You ll also become fluent with Azure cloud migration services serverless computing technologies that help your development team work productively  
Azure IoT and Azure cognitive services that make your application smarter  
This book also provides real world advice and best practices based on the author s own Azure migration experience  
Gain insight into which Azure cloud service best suits your company s particular needs  
Understand how to use Azure for different use cases and specific technical requirements  
Start developing cloud services applications and solutions in the Azure environment

Learn how to migrate existing legacy applications to Microsoft Azure

Learning Microsoft Power Apps Arpit

Shrivastava,2024-07-17 In today s fast paced world more and more organizations require rapid application development with reduced development costs and increased productivity  
This practical guide shows application developers how to use PowerApps Microsoft s no code low code application framework that helps developers speed up development modernize business processes and solve tough challenges  
Author Arpit Shrivastava provides a comprehensive overview of designing and building cost effective applications with Microsoft Power Apps  
You ll learn fundamental concepts behind low code and no code development how to build applications using pre built and blank templates how to design an app using Copilot AI and drag and drop PowerPoint like controls use Excel like expressions to write business logic for an app and integrate apps with external data sources  
With this book you ll Learn the importance of no code low code application development  
Design mobile tablet canvas apps applications using pre built and blank templates  
Design web applications model driven apps using low code no code and pro code components  
Integrate PowerApps with external applications  
Learn basic coding concepts like JavaScript Power Fx and C  
Apply best practices to customize Dynamics 365 CE applications  
Dive into Azure DevOps and ALM

concepts to automate application deployment

**Learn Microsoft Power Apps** Matthew Weston, Elisa Bárcena Martín, 2023-09-29 A step by step guide that will help you create share and deploy applications across your organization using Microsoft Power Apps Purchase of the print or Kindle book includes a free PDF eBook Key Features Build apps from scratch to solve real world business scenarios Learn how to keep app data secure with expanded coverage on Dataverse Incorporate AI into your app building process using AI Builder and Copilot Book Description Microsoft Power Apps provides a modern approach to building low code business applications for mobiles tablets browsers and Microsoft Teams The second edition of Learn Microsoft Power Apps will guide you in creating well designed and secure apps that transform old processes and workflows Learn Microsoft Power Apps starts with an introduction to Power Apps to help you feel comfortable with the creation experience Using screenshots from the latest UI you will be guided through how to create an app building your confidence to start developing further This book will help you design set up and configure your first application by writing simple formulas You ll learn about the different types of apps you can build in Power Apps and which one applies best to your requirements In addition to this you ll learn how to identify the right data storage system for you with new chapters covering how to integrate apps with SharePoint or Dataverse As you advance you ll be able to use various controls connectors and data sources to create a powerful interactive app For example this book will help you understand how Power Apps can use Microsoft Power Automate Power BI and Azure functionalities to improve your applications Finally you will be introduced to the emerging Power Apps Copilot tool which uses artificial intelligence to accelerate the app building process By the end of this Power Apps book you ll be ready to confidently develop lightweight business applications with minimal code What you will learn Understand the Power Apps ecosystem and licensing Take your first steps building canvas apps Develop apps using intermediate techniques such as the barcode scanner and GPS controls Explore new connectors to integrate tools across the Power Platform Store data in Dataverse using model driven apps Discover the best practices for building apps cleanly and effectively Use AI for app development with AI Builder and Copilot Who this book is for This book is intended for business analysts IT professionals and both developers and non developers alike If you want to meet business needs by creating purpose built apps this book is for you To get the most out of this book it is recommended that you have a basic understanding of Microsoft 365 as you will interact with various elements of it while developing apps

**Deep Learning mit Microsoft Azure** Mathew Salvaris, Danielle Dean, Wee Hyong Tok, 2019-05-24 *Mastering Azure Machine Learning* Christoph Körner, Kaijisse Waaijer, 2020-04-30 Master expert techniques for building automated and highly scalable end to end machine learning models and pipelines in Azure using TensorFlow Spark and Kubernetes Key Features Make sense of data on the cloud by implementing advanced analytics Train and optimize advanced deep learning models efficiently on Spark using Azure Databricks Deploy machine learning models for batch and real time scoring with Azure Kubernetes Service AKS Book Description The increase being seen in data volume today requires distributed systems powerful algorithms and

scalable cloud infrastructure to compute insights and train and deploy machine learning ML models This book will help you improve your knowledge of building ML models using Azure and end to end ML pipelines on the cloud The book starts with an overview of an end to end ML project and a guide on how to choose the right Azure service for different ML tasks It then focuses on Azure Machine Learning and takes you through the process of data experimentation data preparation and feature engineering using Azure Machine Learning and Python You ll learn advanced feature extraction techniques using natural language processing NLP classical ML techniques and the secrets of both a great recommendation engine and a performant computer vision model using deep learning methods You ll also explore how to train optimize and tune models using Azure Automated Machine Learning and HyperDrive and perform distributed training on Azure Then you ll learn different deployment and monitoring techniques using Azure Kubernetes Services with Azure Machine Learning along with the basics of MLOps DevOps for ML to automate your ML process as CI CD pipeline By the end of this book you ll have mastered Azure Machine Learning and be able to confidently design build and operate scalable ML pipelines in Azure What you will learn

Setup your Azure Machine Learning workspace for data experimentation and visualization  
Perform ETL data preparation and feature extraction using Azure best practices  
Implement advanced feature extraction using NLP and word embeddings  
Train gradient boosted tree ensembles recommendation engines and deep neural networks on Azure Machine Learning  
Use hyperparameter tuning and Azure Automated Machine Learning to optimize your ML models  
Employ distributed ML on GPU clusters using Horovod in Azure Machine Learning  
Deploy operate and manage your ML models at scale  
Automate your end to end ML process as CI CD pipelines for MLOps

Who this book is for This machine learning book is for data professionals data analysts data engineers data scientists or machine learning developers who want to master scalable cloud based machine learning architectures in Azure This book will help you use advanced Azure services to build intelligent machine learning applications A basic understanding of Python and working knowledge of machine learning are mandatory

*Practical Automated Machine Learning on Azure* Deepak Mukunthu, Parashar Shah, Wee Hyong Tok, 2019-09-23

Develop smart applications without spending days and weeks building machine learning models With this practical book you ll learn how to apply automated machine learning AutoML a process that uses machine learning to help people build machine learning models Deepak Mukunthu Parashar Shah and Wee Hyong Tok provide a mix of technical depth hands on examples and case studies that show how customers are solving real world problems with this technology Building machine learning models is an iterative and time consuming process Even those who know how to create ML models may be limited in how much they can explore Once you complete this book you ll understand how to apply AutoML to your data right away Learn how companies in different industries are benefiting from AutoML Get started with AutoML using Azure Explore aspects such as algorithm selection auto featurization and hyperparameter tuning Understand how data analysts BI professions developers can use AutoML in their familiar tools and experiences Learn how to get started using AutoML for use

cases including classification regression and forecasting *Azure AI-102 Certification Essentials* Peter T. Lee,2025-08-14 Go beyond AI 102 certification by mastering the foundations of Azure AI concepts and services reinforced through practical labs and real world examples Free with your book DRM free PDF version access to Packt s next gen Reader Key Features Solidify your understanding with targeted questions at the end of each chapter Assess your knowledge of key concepts with over 45 exam style questions complete with detailed explanations Get hands on experience with GitHub projects along with ongoing support from the author on GitHub Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionWritten by a seasoned solutions architect and Microsoft AI professional with over 25 years of IT experience Azure AI 102 Certification Essentials will help you gain the skills and knowledge needed to confidently pass the Azure AI 102 certification exam and advance your career This comprehensive guide covers all of the exam objectives from designing AI solutions to integrating AI models into Azure services By combining theoretical concepts with visual examples hands on exercises and real world use cases the chapters teach you how to effectively apply your new found knowledge The book emphasizes responsible AI practices addressing fairness reliability privacy and security while guiding you through testing AI models with diverse data and navigating legal considerations Featuring the latest Azure AI tools and technologies each chapter concludes with hands on exercises to reinforce your learning culminating in Chapter 11 s comprehensive set of 45 mock questions that simulate the actual exam and help you assess your exam readiness By the end of this book you ll be able to confidently design implement and integrate AI solutions on Azure while achieving this highly sought after certification Email sign up and proof of purchase requiredWhat you will learn Learn core concepts relating to AI LLMs NLP and generative AI Build and deploy with Azure AI Foundry CI CD and containers Manage and secure Azure AI services with built in tools Apply responsible AI using Azure AI Content Safety Perform OCR and analysis with Azure AI Vision Build apps with the Azure AI Language and Speech services Explore knowledge mining with Azure AI Search and Content Understanding Implement RAG and fine tuning with Azure OpenAI Build agents using Azure AI Foundry Agent Service and Semantic Kernel Who this book is for If you re preparing for the Azure AI 102 certification exam this book is for you Developers engineers and career transitioners moving from traditional software development to AI focused roles can use this guide to deepen their understanding of AI within the Azure ecosystem This book is also beneficial for students and educators looking to apply AI ML concepts using Azure No prior experience in AI ML is required as this book provides comprehensive coverage of exam topics with detailed explanations practical examples and hands on exercises to build your confidence and expertise *Hands-On Machine Learning with Azure* Thomas K Abraham,Parashar Shah,Jen Stirrup,Lauri Lehman,Anindita Basak,2018-10-31 Implement machine learning cognitive services and artificial intelligence solutions by leveraging Azure cloud technologies Key FeaturesLearn advanced concepts in Azure ML and the Cortana Intelligence Suite architectureExplore ML Server using SQL Server and HDInsight capabilitiesImplement various tools in Azure to build and deploy machine learning modelsBook Description Implementing

Machine learning ML and Artificial Intelligence AI in the cloud had not been possible earlier due to the lack of processing power and storage However Azure has created ML and AI services that are easy to implement in the cloud Hands On Machine Learning with Azure teaches you how to perform advanced ML projects in the cloud in a cost effective way The book begins by covering the benefits of ML and AI in the cloud You will then explore Microsoft s Team Data Science Process to establish a repeatable process for successful AI development and implementation You will also gain an understanding of AI technologies available in Azure and the Cognitive Services APIs to integrate them into bot applications This book lets you explore prebuilt templates with Azure Machine Learning Studio and build a model using canned algorithms that can be deployed as web services The book then takes you through a preconfigured series of virtual machines in Azure targeted at AI development scenarios You will get to grips with the ML Server and its capabilities in SQL and HDInsight In the concluding chapters you ll integrate patterns with other non AI services in Azure By the end of this book you will be fully equipped to implement smart cognitive actions in your models What you will learn Discover the benefits of leveraging the cloud for ML and AI Use Cognitive Services APIs to build intelligent bots Build a model using canned algorithms from Microsoft and deploy it as a web service Deploy virtual machines in AI development scenarios Apply R Python SQL Server and Spark in Azure Build and deploy deep learning solutions with CNTK MML Spark and TensorFlow Implement model retraining in IoT Streaming and Blockchain solutions Explore best practices for integrating ML and AI functions with ADLA and logic apps Who this book is for If you are a data scientist or developer familiar with Azure ML and cognitive services and want to create smart models and make sense of data in the cloud this book is for you You ll also find this book useful if you want to bring powerful machine learning services into your cloud applications Some experience with data manipulation and processing using languages like SQL Python and R will aid in understanding the concepts covered in this book

**Hands-On Machine Learning with ML.NET** Jarred Capellman, 2020-03-27 Create train and evaluate various machine learning models such as regression classification and clustering using ML NET Entity Framework and ASP NET Core Key Features Get well versed with the ML NET framework and its components and APIs using practical examples Learn how to build train and evaluate popular machine learning algorithms with ML NET offerings Extend your existing machine learning models by integrating with TensorFlow and other libraries Book Description Machine learning ML is widely used in many industries such as science healthcare and research and its popularity is only growing In March 2018 Microsoft introduced ML NET to help NET enthusiasts in working with ML With this book you ll explore how to build ML NET applications with the various ML models available using C code The book starts by giving you an overview of ML and the types of ML algorithms used along with covering what ML NET is and why you need it to build ML apps You ll then explore the ML NET framework its components and APIs The book will serve as a practical guide to helping you build smart apps using the ML NET library You ll gradually become well versed in how to implement ML algorithms such as regression classification and clustering with real world examples and datasets Each

chapter will cover the practical implementation showing you how to implement ML within NET applications You ll also learn to integrate TensorFlow in ML NET applications Later you ll discover how to store the regression model housing price prediction result to the database and display the real time predicted results from the database on your web application using ASP NET Core Blazor and SignalR By the end of this book you ll have learned how to confidently perform basic to advanced level machine learning tasks in ML NET What you will learn Understand the framework components and APIs of ML NET using C Develop regression models using ML NET for employee attrition and file classification Evaluate classification models for sentiment prediction of restaurant reviews Work with clustering models for file type classifications Use anomaly detection to find anomalies in both network traffic and login history Work with ASP NET Core Blazor to create an ML NET enabled web application Integrate pre trained TensorFlow and ONNX models in a WPF ML NET application for image classification and object detection Who this book is for If you are a NET developer who wants to implement machine learning models using ML NET then this book is for you This book will also be beneficial for data scientists and machine learning developers who are looking for effective tools to implement various machine learning algorithms A basic understanding of C or NET is mandatory to grasp the concepts covered in this book effectively

*Microsoft Certified Azure Fundamentals All-in-One Exam Guide (Exam AZ-900)* Jack Hyman, 2021-08-27 A highly effective integrated self study system for the Microsoft Azure Fundamentals exam Prepare for the current version of the Microsoft Azure Fundamentals exam using the detailed information contained in this test preparation guide Written by a cloud computing expert and experienced author the book contains accurate practice questions step by step exercises and special elements that aid in learning and reinforce retention Microsoft Certified Azure Fundamentals All in One Exam Guide Exam AZ 900 features in depth coverage of every topic on the challenging exam You will explore core Azure services security compliance and trust Fulfilling the promise of the All in One series the guide serves as both a test preparation tool and an on the job reference for risk and compliance professionals 100% coverage of all objectives for the Microsoft Azure Fundamentals exam Contains hands on exercises and practical use cases for Microsoft Azure Online content includes practice exam software with 120 questions

**Deep Learning on Windows** Thimira Amaratunga, 2021-02-25 Build deep learning and computer vision systems using Python TensorFlow Keras OpenCV and more right within the familiar environment of Microsoft Windows The book starts with an introduction to tools for deep learning and computer vision tasks followed by instructions to install configure and troubleshoot them Here you will learn how Python can help you build deep learning models on Windows Moving forward you will build a deep learning model and understand the internal workings of a convolutional neural network on Windows Further you will go through different ways to visualize the internal workings of deep learning models along with an understanding of transfer learning where you will learn how to build a model architecture and use data augmentations Next you will manage and train deep learning models on Windows before deploying your application as a web application You ll also do some basic image processing and work with computer

vision options that will help you build various applications with deep learning Finally you will use generative adversarial networks along with reinforcement learning After reading Deep Learning on Windows you will be able to design deep learning models and web applications on the Windows operating system What You Will Learn Get deep learning tools working on Microsoft Windows Understand model visualization techniques such as the built in plot\_model function of Keras and third party visualization tools Build a robust training script Convert your deep learning model into a web application Generate handwritten digits with DCGAN deep convolutional generative adversarial network Understand the basics of reinforcement learning Who This Book Is For AI developers and enthusiasts wanting to work on the Windows platform

**DDC Learning Microsoft FrontPage 2002** Catherine H. Skintik,2002 Learning Microsoft FrontPage 2002provides readers with a total immersion hands on tutorial that walks them step by step mouse click by mouse click keystroke by keystroke through basic intermediate to advanced features FrontPage Designed for readers at a variety of skill levels the well illustrated spiral bound manual contains easy to read appealingly formatted procedural explanations and step by step exercises in a multi part Lesson format Throughout readers work with a variety of web sites ranging from personal pages to corporate sites Real world on the job scenarios make content immediately relevant An accompanying CD ROM includes data files Add Graphic Web Elements Create Tables in FrontPage Frames and Special Effect Advanced Web Formatting Themes and Styles Web Development Navigation Structures and Tasks Web Publishing and Searching Interactive Web Features Forms and Other FrontPage Components Advanced Interactive Web Features Discussion Groups and Databases Web Site Management For anyone wanting to develop skills in using FrontPage to develop Web sites *Cognitive Computing Recipes* Adnan Masood,Adnan Hashmi,2019-03-27 Solve your AI and machine learning problems using complete and real world code examples Using a problem solution approach this book makes deep learning and machine learning accessible to everyday developers by providing a combination of tools such as cognitive services APIs machine learning platforms and libraries Along with an overview of the contemporary technology landscape Machine Learning and Deep Learning with Cognitive Computing Recipes covers the business case for machine learning and deep learning Covering topics such as digital assistants computer vision text analytics speech and robotics process automation this book offers a comprehensive toolkit that you can apply quickly and easily in your own projects With its focus on Microsoft Cognitive Services offerings you ll see recipes using multiple different environments including TensowFlow and CNTK to give you a broader perspective of the deep learning ecosystem What You Will Learn Build production ready solutions using Microsoft Cognitive Services APIs Apply deep learning using TensorFlow and Microsoft Cognitive Toolkit CNTK Solve enterprise problems in natural language processing and computer vision Discover the machine learning development life cycle from formal problem definition to deployment at scale Who This Book Is For Software engineers and enterprise architects who wish to understand machine learning and deep learning by building applications and solving real world business problems *Microsoft Azure Machine*

*Learning* Sumit Mund,2015-06-16 The book is intended for those who want to learn how to use Azure Machine Learning Perhaps you already know a bit about Machine Learning but have never used ML Studio in Azure or perhaps you are an absolute newbie In either case this book will get you up and running quickly **Deep Learning with C#, .Net and Kelp.Net** Cole Matt R.,2019-09-20 Get hands on with Kelp Net Microsoft s latest Deep Learning frameworkKey features Deep Learning Basics The ultimate Kelp Net reference guide Develop state of the art deep learning applications C deep learning code Develop advanced deep learning models with minimal code Develop your own advanced deep learning models Loading and Saving Deep Learning Models Comprehensive Kelp Net reference Sample Deep Learning Models and Tests penCL Reference Easily add deep learning to your applications Many sample models and tests Intuitive and user friendly Description Deep Learning with Kelp Net is the ultimate reference for C Net developers who are passionate about deep learning Readers will learn all the skills necessary to develop powerful scalable and flexible deep learning models from a fluid and easy to use API Upon completing the book the reader will have all the tools necessary to add powerful deep learning capabilities to their new or existing applications What will you learn In depth knowledge of Kelp Net How to develop deep learning models C deep learning programming Open Computing Language OpenCL Loading and saving deep learning models How to develop and use activation functions How to test deep learning modelsWho this book is for This book targets C Net developers who are passionate about deep learning yet want to do so from an easy and intuitive API Table of contents1 Introduction2 ML DL Terms and Concepts3 Deep Instrumentation4 Kelp Net Reference5 Loading and Saving Models6 Model Testing and Training7 Sample Deep Learning Tests8 Creating Your Own Deep Learning Tests9 Appendix A Evaluation Metrics10 Appendix B OpenCL About the authorMatt R Cole is a seasoned developer and published author with over 30 years experience in Microsoft Windows C C C and Net Matt is the owner of Evolved AI Solutions a premier provider of advanced Machine Learning Bio AI technologies Matt developed the first enterprise grade MicroService framework written completely in C and Net which is used in production by a major hedge fund in NYC Matt also developed the first Bio Artificial Intelligence framework which completely integrates mirror and canonical neurons He continues to push the limits of Machine Learning Biological Artificial Intelligence Deep Learning and MicroServices In his spare time Matt loves to continue his education and contribute to open source efforts such as Kelp Net His Website [www.evolvedaisolutions.com](http://www.evolvedaisolutions.com)His LinkedIn Profile <https://www.linkedin.com/in/evolvedai> His Blog <https://evolvedaisolutions.com/blog/html> [AI: The Microsoft Way - Making Technology Accessible to All](#) M.B. Chatfield, In the rapidly evolving world of artificial intelligence AI Microsoft stands as a beacon of innovation and accessibility From its early forays into AI research to its groundbreaking advancements in natural language processing machine learning and deep learning Microsoft has consistently demonstrated its commitment to making AI a transformative force for good Unlocking the Power of AI for Everyone This book delves into Microsoft s groundbreaking approach to AI accessibility highlighting its unwavering dedication to making this powerful technology

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