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Machine Learning Projects for .NET Developers

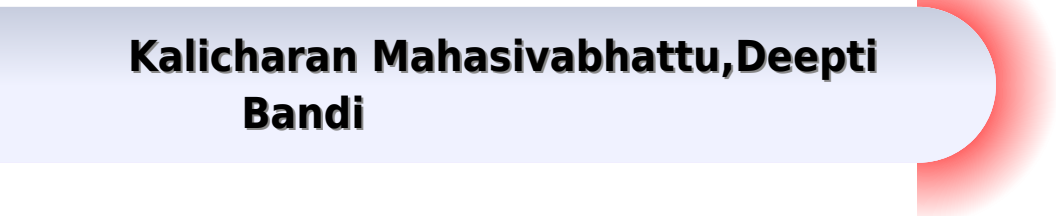
*BUILD SMARTER APPLICATIONS BY
TEACHING THEM TO LEARN FROM DATA*

Mathias Brandewinder

Apress®

Machine Learning Projects For Net Developers

**Kalicharan Mahasivabhattu, Deepti
Bandi**



Machine Learning Projects For Net Developers:

Machine Learning Projects for .NET Developers Mathias Brandewinder, 2015-07-09 Machine Learning Projects for NET Developers shows you how to build smarter NET applications that learn from data using simple algorithms and techniques that can be applied to a wide range of real world problems You ll code each project in the familiar setting of Visual Studio while the machine learning logic uses F# a language ideally suited to machine learning applications in NET If you re new to F# this book will give you everything you need to get started If you re already familiar with F# this is your chance to put the language into action in an exciting new context In a series of fascinating projects you ll learn how to Build an optical character recognition OCR system from scratch Code a spam filter that learns by example Use F# s powerful type providers to interface with external resources in this case data analysis tools from the R programming language Transform your data into informative features and use them to make accurate predictions Find patterns in data when you don t know what you re looking for Predict numerical values using regression models Implement an intelligent game that learns how to play from experience Along the way you ll learn fundamental ideas that can be applied in all kinds of real world contexts and industries from advertising to finance medicine and scientific research While some machine learning algorithms use fairly advanced mathematics this book focuses on simple but effective approaches If you enjoy hacking code and data this book is for you

Machine Learning Projects for .NET Developers Mathias Brandewinder, 2015-07-14 Machine Learning Projects for NET Developers shows you how to build smarter NET applications that learn from data using simple algorithms and techniques that can be applied to a wide range of real world problems You ll code each project in the familiar setting of Visual Studio while the machine learning logic uses F# a language ideally suited to machine learning applications in NET If you re new to F# this book will give you everything you need to get started If you re already familiar with F# this is your chance to put the language into action in an exciting new context In a series of fascinating projects you ll learn how to Build an optical character recognition OCR system from scratch Code a spam filter that learns by example Use F# s powerful type providers to interface with external resources in this case data analysis tools from the R programming language Transform your data into informative features and use them to make accurate predictions Find patterns in data when you don t know what you re looking for Predict numerical values using regression models Implement an intelligent game that learns how to play from experience Along the way you ll learn fundamental ideas that can be applied in all kinds of real world contexts and industries from advertising to finance medicine and scientific research While some machine learning algorithms use fairly advanced mathematics this book focuses on simple but effective approaches If you enjoy hacking code and data this book is for you

Ultimate Machine Learning with ML.NET: Build, Optimize, and Deploy Powerful Machine Learning Models for Data-Driven Insights with ML.NET, Azure Functions, and Web API Kalicharan Mahasivabhattu, Deepti Bandi, 2024-06-30 Empower Your NET Journey with Machine Learning Key Features Step by step guidance to help you

navigate through various machine learning tasks and techniques with ML NET Explore all aspects of ML NET from installation and configuration to model deployment Engage in practical exercises and real world projects to solidify your understanding Book Description Dive into the world of machine learning for data driven insights and seamless integration in NET applications with the Ultimate Machine Learning with ML NET The book begins with foundations of ML NET and seamlessly transitions into practical guidance on installing and configuring it using essential tools like Model Builder and the command line interface Next it dives into the heart of machine learning tasks using ML NET exploring classification regression and clustering with its versatile functionalities It will delve deep into the process of selecting and fine tuning algorithms to achieve optimal performance and accuracy You will gain valuable insights into inspecting and interpreting ML NET models ensuring they meet your expectations and deliver reliable results It will teach you efficient methods for saving loading and sharing your models across projects facilitating seamless collaboration and reuse The final section of the book covers advanced techniques for optimizing model accuracy and refining performance You will be able to deploy your ML NET models using Azure Functions and Web API empowering you to integrate machine learning solutions seamlessly into real world applications What you will learn Understand the basics of ML NET and its capabilities in the machine learning landscape Gain practical experience with the ML NET Model Builder and command line interface CLI to efficiently create models Understand how to choose the most suitable algorithms and fine tune them for optimal performance within ML NET Table of Contents 1 Introduction to ML NET 2 Installing and Configuring ML NET 3 ML NET Model Builder and CLI 4 Collecting and Preparing Data for ML NET 5 Machine Learning Tasks in ML NET 6 Choosing and Tuning Machine Learning Algorithms in ML NET 7 Inspecting and Interpreting ML NET Models 8 Saving and Loading Models in ML Net 9 Optimizing ML NET Models for Accuracy 10 Deploying ML NET Models with Azure Functions and Web API Index

Developing Cloud Native Applications in Azure using .NET Core Rekha Kodali, Dr. Gopala Krishna Behara, Sankara Narayanan Govindarajulu, 2020-02-01 Guide to designing and developing cloud native applications in Azure DESCRIPTION The mainstreaming of Cloud Native Architecture as an enterprise discipline is well underway According to the Forbes report in January 2018 83% of the enterprise workloads will be in the cloud by 2020 and 41% of the enterprise workloads will run on public cloud platforms while another 22% will be running on hybrid cloud platforms Customers are embarking on the enterprise digital transformation journeys Adopting cloud and cloud native architectures and microservices is an important aspect of the journey This book starts with a brief introduction on the basics of cloud native applications cloud native application patterns Then it covers the cloud native options available in Azure The objective of the book is to provide practical guidelines to an architect designer consultant developer who is a part of the Cloud application definition Team The book articulates a methodology that the implementation team needs to follow in a step by step manner and adopt them to fulfil the requirements for enablement of the Cloud Native application It emphasizes on the interpersonal skills and

techniques for organizing and directing the Cloud Native definition leadership buy in leading the transition from planning to implementation It also highlights the steps to be followed for performing the cloud native applications cloud native patterns in the development of Cloud native applications Cloud native options available in Azure Developing BOT Microservices based on Azure It also covers how to develop simple IoT applications Machine learning based applications server less architecture using Azure with a practical and pragmatic approach This book embraces a structured approach organized around the following key themes which represent the typical phases that an enterprise traverses during its Cloud Native application journey _ Basics of Cloud Native Applications It covers basics of cloud native applications using NET core _ Cloud Native Application Patterns The reader will understand the patterns for developing Cloud Native Applications _ Cloud Native Options available in Azure The reader will understand the different options available in Azure _ Developing a Simple BOT using NET Core The reader will understand the Azure BOT framework basics and will learn how to develop a simple BOT _ Developing cloud native applications leveraging Microservices The reader will understand the concepts of developing micro services using the Azure API Gateway Manager _ Developing Integration capabilities using serverless architecture The reader will understand the integration capabilities and various options available in Azure _ Developing a simple IoT application The reader will understand the basics of developing IoT applications _ Developing a simple ML based application The reader will understand Machine Learning basics and how to develop a simple ML application _ Different enterprise use cases which enable digital transformation using the Cloud Native Applications The reader will learn about different use cases that can be built using cloud native applications KEY FEATURES Add 5 7 key features only _ Basics of Cloud Native Applications _ Designing Microservices _ Different cloud native options for developing Cloud Native Applications in Azure _ BOTs Web Apps Mobile Apps Logic Apps Service Bus Azure Functions _ Azure IOT Applications _ Azure Machine Learning Basics _ Enterprise Digital Journeys WHAT WILL YOU LEARN This book aims to _ Demonstrate the importance of a Cloud Native application in elevating the effectiveness of organizational transformation programs and digital enterprise journeys using MS Azure _ Disseminate current advancements and thought leadership in the area of Cloud Native architecture in the context of digital enterprises _ Provide initiatives with evidence based credible field tested and practical guidance in crafting their respective architectures and _ Showcase examples and experiences of the innovative use of Cloud Native Applications in enhancing transformation initiatives WHO THIS BOOK IS FOR The book is intended for anyone looking for a career in Cloud technology all aspiring Cloud Architects who want to learn Cloud Native Architectures Microservices IoT BoT and Microsoft Azure platform and working professionals who want to switch their career in Cloud Technology While no prior knowledge of Azure or related technologies is assumed it will be helpful to have some Net programming experience In addition the target audience of this book are _ Business Leaders Chief Architects Analysts and Designers seeking better quicker and easier approaches to respond to needs of their internal and external customers _ CIOs CTOs of business software

companies interested in incorporating Cloud Native architecture to differentiate their products and services offerings and increasing the value proposition to their customers _ Consultants and practitioners desirous of new solutions and technologies to improve productivity of their clients _ Academic and consulting researchers looking to uncover and characterize new research problems and programmes _ Practitioners and professionals involved with organizational technology strategic planning technology procurement management of technology projects consulting and advising on technology issues and management of total cost of ownership

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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

applicationIntegrate pre trained TensorFlow and ONNX models in a WPF ML NET application for image classification and object detectionWho 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 C++ and C # Rama Nolan,2025-02-02 Master C and C with Practical Real World Techniques to Build High Performance Applications Are you ready to take your C and C skills to the next level Whether you re an aspiring developer or an experienced programmer C and C The Complete Developer s Toolkit provides the essential techniques best practices and real world applications to help you write efficient scalable and high performance code What You ll Learn Inside Modern Programming Mastery Write clean efficient and optimized code in both C and C Object Oriented Design Principles Implement robust architectures for maintainable and scalable software Advanced Data Structures Algorithms Boost performance with cutting edge programming techniques Multithreading Parallel Computing Harness the power of concurrency for faster execution Game App Development Insights Learn industry level practices for software and game development Debugging Optimization Identify bottlenecks and optimize code for maximum efficiency Why This Book Hands on Examples Real World Projects Learn by doing with practical coding exercises Expert Insights from a Former Adobe Google Engineer Get insider knowledge from an industry veteran Perfect for Developers of All Levels Whether you re a beginner or an expert this book is designed to enhance your skills Don t waste time on outdated tutorials unlock the power of C and C today Get your copy now and start building powerful high performance applications

Composability, Comprehensibility and Correctness of Working Software Zoltán Porkoláb,Viktória Zsók,2023-10-17 This book constitutes the revised selected papers of the 8th Summer School CEFPP 2019 held in Budapest Hungary during June 2019 The 7 full papers and the 4 short papers included in this volume were carefully reviewed and selected The lectures cover various programming subjects with a focus on composability comprehensibility and correctness of working software

Adopting .NET 5 Hammad Arif,Habib Qureshi,2020-12-30 A practical guide to building and upgrading new and legacy applications on cloud native platforms using architectural best practices with NET 5 C 9 microservices and ML NET Key FeaturesGet up to speed with NET 5 s new improvements and featuresDiscover how to improve existing code design and enhance software maintainabilityExplore explanations and techniques for making programs easier to understand and changeBook Description NET 5 is the unification of all NET technologies in a single framework that can run on all platforms and provide a consistent experience to developers regardless of the device operating system OS or cloud platform they choose By updating to NET 5 you can build software that can quickly adapt to the rapidly changing demands of modern consumers and stay up to date on the latest technology trends in NET This book provides a comprehensive overview of all the technologies that will form the future landscape of NET using practical examples based on real world scenarios along with

best practices to help you migrate from legacy platforms You'll start by learning about Microsoft's vision and rationale for the unification of the platforms Then you'll cover all the new language enhancements in C# 9 As you advance you'll find out how you can align yourself with modern technology trends focusing on everything from microservices to orchestrated containerized deployments Finally you'll learn how to effectively integrate machine learning in .NET code By the end of this .NET book you'll have gained a thorough understanding of the .NET 5 platform together with a readiness to adapt to future .NET release cycles and you'll be able to make architectural decisions about porting legacy systems and code bases to a newer platform What you will learn

- Explore the key performance improvement areas when migrating to modern architectures
- Understand app design and development using .NET 5
- Discover how to shift from legacy to modern application design using microservices and cloud native architecture
- Explore common migration pitfalls and make the right decisions in situations where multiple options are available
- Understand the process of deploying .NET 5 code on serverless and containerized hosts along with its benefits
- Find out what ML .NET has to offer and build .NET apps that use machine learning services

Who this book is for This book is for experienced developers as well as software architects who are looking to gain knowledge of the new features and capabilities of .NET 5 along with guidance on modern architectural patterns If you're a developer who has previously worked on .NET WPF ASP.NET Entity Framework or other popular .NET libraries this book will help you understand the migration process for their modern counterparts Although experience with .NET Core is not required working knowledge of the C# language and .NET framework is assumed

Hands-On Mobile Development with .NET Core Can Bilgin, 2019-05-31 Develop native applications for multiple mobile and desktop platforms including but not limited to iOS Android and UWP with the Xamarin framework and Xamarin Forms Key Features

- Understand .NET Core and its cross platform development philosophy
- Build Android iOS and Windows mobile applications with C# .NET Core and Azure Cloud Services
- Bring Artificial Intelligence capabilities into your mobile applications with Azure AI

Book Description .NET Core is the general umbrella term used for Microsoft's cross platform toolset Xamarin used for developing mobile applications is one of the app model implementations for .NET Core infrastructure In this book you will learn how to design architect and develop highly attractive maintainable efficient and robust mobile applications for multiple platforms including iOS Android and UWP with the toolset provided by Microsoft using Xamarin .NET Core and Azure Cloud Services This book will take you through various phases of application development with Xamarin from environment setup design and architecture to publishing using real world scenarios Throughout the book you will learn how to develop mobile apps using Xamarin Xamarin Forms and .NET Standard implement a webbased backend composed of microservices with .NET Core using various Azure services including but not limited to Azure App Services Azure Active Directory Notification Hub Logic Apps and Azure Functions Cognitive Services create data stores using popular database technologies such as Cosmos DB SQL and Realm Towards the end the book will help developers to set up an efficient and maintainable development pipeline to manage the application life cycle

using Visual Studio App Center and Visual Studio Services What you will learn Implement native applications for multiple mobile and desktop platforms Understand and use various Azure Services with NET Core Make use of architectural patterns designed for mobile and web applications Understand the basic Cosmos DB concepts Understand how different app models can be used to create an app service Explore the Xamarin and Xamarin Forms UI suite with NET Core for building mobile applications Who this book is for This book is for mobile developers who wish to develop cross platform mobile applications Programming experience with C is required Some knowledge and understanding of core elements and cross platform application development with NET is required

Cloud Analytics with Microsoft Azure Has Altaiar, Jack Lee, Michael Peña, 2021-01-28 Learn to extract actionable insights from your big data in real time using a range of Microsoft Azure features Key Features Updated with the latest features and new additions to Microsoft Azure Master the fundamentals of cloud analytics using Azure Learn to use Azure Synapse Analytics formerly known as Azure SQL Data Warehouse to derive real time customer insights Book Description Cloud Analytics with Microsoft Azure serves as a comprehensive guide for big data analysis and processing using a range of Microsoft Azure features This book covers everything you need to build your own data warehouse and learn numerous techniques to gain useful insights by analyzing big data The book begins by introducing you to the power of data with big data analytics the Internet of Things IoT machine learning artificial intelligence and DataOps You will learn about cloud scale analytics and the services Microsoft Azure offers to empower businesses to discover insights You will also be introduced to the new features and functionalities added to the modern data warehouse Finally you will look at two real world business use cases to demonstrate high level solutions using Microsoft Azure The aim of these use cases will be to illustrate how real time data can be analyzed in Azure to derive meaningful insights and make business decisions You will learn to build an end to end analytics pipeline on the cloud with machine learning and deep learning concepts By the end of this book you will be proficient in analyzing large amounts of data with Azure and using it effectively to benefit your organization What you will learn Explore the concepts of modern data warehouses and data pipelines Discover unique design considerations while applying a cloud analytics solution Design an end to end analytics pipeline on the cloud Differentiate between structured semi structured and unstructured data Choose a cloud based service for your data analytics solutions Use Azure services to ingest store and analyze data of any scale Who this book is for This book is designed to benefit software engineers Azure developers cloud consultants and anyone who is keen to learn the process of deriving business insights from huge amounts of data using Azure Though not necessary a basic understanding of data analytics concepts such as data streaming data types the machine learning life cycle and Docker containers will help you get the most out of the book

C# 9 and .NET 5 - Modern Cross-Platform Development Mark J. Price, 2020-11-10 Publisher's Note Microsoft stopped supporting NET 5 in May 2022 The newer 8th edition of the book is available that covers NET 8 end of life November 2026 with C 12 and EF Core 8 Purchase of the print or Kindle book includes a free PDF eBook

Key Features Explore the newest additions to C# 9 the .NET 5 class library Entity Framework Core and Blazor Strengthen your command of ASP.NET Core 5.0 and create professional websites and services Build cross platform apps for Windows macOS Linux iOS and Android **Book Description** In C# 9 and .NET 5 Modern Cross Platform Development Fifth Edition expert teacher Mark J Price gives you everything you need to start programming C# applications This latest edition uses the popular Visual Studio Code editor to work across all major operating systems It is fully updated and expanded with a new chapter on the Microsoft Blazor framework The book's first part teaches the fundamentals of C# including object oriented programming and new C# 9 features such as top level programs target typed new object instantiation and immutable types using the `record` keyword Part 2 covers the .NET APIs for performing tasks like managing and querying data monitoring and improving performance and working with the file system `async` streams serialization and encryption Part 3 provides examples of cross platform apps you can build and deploy such as websites and services using ASP.NET Core or mobile apps using Xamarin Forms The best type of application for learning the C# language constructs and many of the .NET libraries is one that does not distract with unnecessary application code For that reason the C# and .NET topics covered in Chapters 1 to 13 feature console applications In Chapters 14 to 20 having mastered the basics of the language and libraries you will build practical applications using ASP.NET Core Model View Controller MVC and Blazor By the end of the book you will have acquired the understanding and skills you need to use C# 9 and .NET 5 to create websites services and mobile apps What you will learn Build your own types with object oriented programming Query and manipulate data using LINQ Build websites and services using ASP.NET Core 5 Create intelligent apps using machine learning Use Entity Framework Core and work with relational databases Discover Windows app development using the Universal Windows Platform and XAML Build rich web experiences using the Blazor framework Build mobile applications for iOS and Android using Xamarin Forms Who this book is for This book is best for C# and .NET beginners or programmers who have worked with C# in the past but feel left behind by the changes in the past few years This book doesn't expect you to have any C# or .NET experience however you should have a general understanding of programming Students and professionals with a science technology engineering or mathematics STEM background can certainly benefit from this book

Machine Learning for Decision Makers Patanjali

Kashyap, 2018-01-04 Take a deep dive into the concepts of machine learning as they apply to contemporary business and management You will learn how machine learning techniques are used to solve fundamental and complex problems in society and industry Machine Learning for Decision Makers serves as an excellent resource for establishing the relationship of machine learning with IoT big data and cognitive and cloud computing to give you an overview of how these modern areas of computing relate to each other This book introduces a collection of the most important concepts of machine learning and sets them in context with other vital technologies that decision makers need to know about These concepts span the process from envisioning the problem to applying machine learning techniques to your particular situation This discussion also provides an

insight to help deploy the results to improve decision making The book uses case studies and jargon busting to help you grasp the theory of machine learning quickly You'll soon gain the big picture of machine learning and how it fits with other cutting edge IT services This knowledge will give you confidence in your decisions for the future of your business What You Will Learn Discover the machine learning big data and cloud and cognitive computing technology stack Gain insights into machine learning concepts and practices Understand business and enterprise decision making using machine learning Absorb machine learning best practices Who This Book Is For Managers tasked with making key decisions who want to learn how and when machine learning and related technologies can help them Deep Learning with C#, .Net and Kelp.Net Matt R. Cole, 2019-05-14 Get hands on with Kelp Net Microsoft's latest Deep Learning framework Description Deep Learning with Kelp Net is the ultimate reference for C# 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 Key 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 OpenCL Reference Easily add deep learning to your applications Many sample models and tests Intuitive and user friendly What you will 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 models Who This Book is For This book targets C# developers who are passionate about deep learning yet want to do so from an easy and intuitive API Table of Contents Introduction ML/DL Terms and Concepts Deep Instrumentation Kelp Net Reference Loading and Saving Models Model Testing and Training Sample Deep Learning Tests Creating Your Own Deep Learning Tests Appendix A Evaluation Metrics Appendix B OpenCL

Developing on AWS with C# Noah Gift, James Charlesworth, 2022-10-04 Many organizations today have begun to modernize their Windows workloads to take full advantage of cloud economics If you're a C# developer at one of these companies you need options for rehosting replatforming and refactoring your existing .NET Framework applications This practical book guides you through the process of converting your monolithic application to microservices on AWS Authors Noah Gift founder of Pragmatic AI Labs and James Charlesworth engineering manager at Pendo take you through the depth and breadth of .NET tools on AWS You'll examine modernization techniques and pathways for incorporating Linux and Windows containers and serverless architecture to build maintain and scale modern .NET apps on AWS With this book you'll learn how to make your applications more modern resilient and cost effective Get started building solutions with C# on AWS Learn DevOps best practices for AWS Explore the development tools and services that AWS provides Successfully migrate a

legacy NET application to AWS Develop serverless NET microservices on AWS Containerize your NET applications and move into the cloud Monitor and test your AWS NET applications Build cloud native solutions that combine the best of the NET platform and AWS

Machine Learning: End-to-End guide for Java developers Richard M. Reese, Jennifer L. Reese, Bostjan Kaluza, Dr. Uday Kamath, Krishna Choppella, 2017-10-05 Develop Implement and Tuneup your Machine Learning applications using the power of Java programming About This Book Detailed coverage on key machine learning topics with an emphasis on both theoretical and practical aspects Address predictive modeling problems using the most popular machine learning Java libraries A comprehensive course covering a wide spectrum of topics such as machine learning and natural language through practical use cases Who This Book Is For This course is the right resource for anyone with some knowledge of Java programming who wants to get started with Data Science and Machine learning as quickly as possible If you want to gain meaningful insights from big data and develop intelligent applications using Java this course is also a must have What You Will Learn Understand key data analysis techniques centered around machine learning Implement Java APIs and various techniques such as classification clustering anomaly detection and more Master key Java machine learning libraries their functionality and various kinds of problems that can be addressed using each of them Apply machine learning to real world data for fraud detection recommendation engines text classification and human activity recognition Experiment with semi supervised learning and stream based data mining building high performing and real time predictive models Develop intelligent systems centered around various domains such as security Internet of Things social networking and more In Detail Machine Learning is one of the core area of Artificial Intelligence where computers are trained to self learn grow change and develop on their own without being explicitly programmed In this course we cover how Java is employed to build powerful machine learning models to address the problems being faced in the world of Data Science The course demonstrates complex data extraction and statistical analysis techniques supported by Java applying various machine learning methods exploring machine learning sub domains and exploring real world use cases such as recommendation systems fraud detection natural language processing and more using Java programming The course begins with an introduction to data science and basic data science tasks such as data collection data cleaning data analysis and data visualization The next section has a detailed overview of statistical techniques covering machine learning neural networks and deep learning The next couple of sections cover applying machine learning methods using Java to a variety of chores including classifying predicting forecasting market basket analysis clustering stream learning active learning semi supervised learning probabilistic graph modeling text mining and deep learning The last section highlights real world test cases such as performing activity recognition developing image recognition text classification and anomaly detection The course includes premium content from three of our most popular books Java for Data Science Machine Learning in Java Mastering Java Machine Learning On completion of this course you will understand various machine learning techniques different machine learning java algorithms you can use to

gain data insights building data models to analyze larger complex data sets and incubating applications using Java and machine learning algorithms in the field of artificial intelligence Style and approach This comprehensive course proceeds from being a tutorial to a practical guide providing an introduction to machine learning and different machine learning techniques exploring machine learning with Java libraries and demonstrating real world machine learning use cases using the Java platform

Data Science with .NET and Polyglot Notebooks Matt Eland,2024-08-30 ProgExpand your skillset by learning how to perform data science machine learning and generative AI experiments in NET Interactive notebooks using a variety of languages including C F SQL and PowerShell Key Features Learn Conduct a full range of data science experiments with clear explanations from start to finish Learn key concepts in data analytics machine learning and AI and apply them to solve real world problems Access all of the code online as a notebook and interactive GitHub Codespace Purchase of the print or Kindle book includes a free PDF eBook Book Description As the fields of data science machine learning and artificial intelligence rapidly evolve NET developers are eager to leverage their expertise to dive into these exciting domains but are often unsure of how to do so Data Science in NET with Polyglot Notebooks is the practical guide you need to seamlessly bring your NET skills into the world of analytics and AI With Microsoft s NET platform now robustly supporting machine learning and AI tasks the introduction of tools such as NET Interactive kernels and Polyglot Notebooks has opened up a world of possibilities for NET developers This book empowers you to harness the full potential of these cutting edge technologies guiding you through hands on experiments that illustrate key concepts and principles Through a series of interactive notebooks you ll not only master technical processes but also discover how to integrate these new skills into your current role or pivot to exciting opportunities in the data science field By the end of the book you ll have acquired the necessary knowledge and confidence to apply cutting edge data science techniques and deliver impactful solutions within the NET ecosystem What you will learn Load analyze and transform data using DataFrames data visualization and descriptive statistics Train machine learning models with ML NET for classification and regression tasks Customize ML NET model training pipelines with AutoML transforms and model trainers Apply best practices for deploying models and monitoring their performance Connect to generative AI models using Polyglot Notebooks Chain together complex AI tasks with AI orchestration RAG and Semantic Kernel Create interactive online documentation with Mermaid charts and GitHub Codespaces Who this book is for This book is for experienced C or F developers who want to transition into data science and machine learning while leveraging their NET expertise It s ideal for those looking to learn ML NET and Semantic kernel and extend their NET skills to data science machine learning and Generative AI Workflows rammer s guide to data science using ML NET OpenAI and Semantic Kernel

Beyond Boundaries: Mastering Modern Application Development with Visual Studio .NET Pasquale De Marco,2025-04-12 In the ever evolving landscape of software development Beyond Boundaries Mastering Modern Application Development with Visual Studio NET emerges as an indispensable guide for

aspiring developers and seasoned professionals alike This comprehensive volume provides a transformative journey through the intricacies of Visual Studio .NET empowering readers to craft sophisticated applications that transcend boundaries and redefine possibilities Delve into the depths of Visual Studio s interface unveiling the secrets of its powerful tools and features Discover the elegance of C# and the .NET Framework unlocking the potential for building robust and scalable applications Explore the intricacies of project structures and solutions gaining mastery over the organizational aspects of software development Embark on an exploration of application architecture principles laying the foundation for robust and maintainable software systems Deconstruct layered architectures such as MVC and MVVM and understand their significance in structuring complex applications Delve into the realm of service oriented architecture SOA and cloud based architectures gaining insights into the latest industry trends Unravel the complexities of data access and persistence mastering the art of data manipulation and storage Establish seamless database connectivity with ADO .NET and discover the power of Entity Framework an object relational mapping ORM tool that simplifies data access Explore the nuances of SQL Server MySQL and NoSQL databases gaining a comprehensive understanding of data management options Transform abstract concepts into visually stunning and intuitive user interfaces Craft engaging user experiences with Windows Forms and unleash the potential of WPF and XAML unlocking the secrets of modern UI design principles Implement responsive layouts and adaptive design ensuring seamless application functionality across diverse devices and screen sizes Enhance user interaction with animations and effects adding a touch of dynamism to your software creations Secure your applications and data against the ever present threats of the digital landscape Implement robust authentication and authorization mechanisms safeguarding sensitive information from unauthorized access Employ encryption and cryptography techniques to protect data in transit and at rest Understand secure coding practices and vulnerabilities mitigating risks and ensuring the integrity of your applications Extend the capabilities of your applications with a vast array of controls unlocking a world of possibilities for enhancing functionality Integrate custom controls to address specialized requirements and leverage third party controls for advanced features Create user defined controls for reusability and harness the power of drag and drop functionality for effortless UI development Master the art of deploying and maintaining applications ensuring seamless operation in real world scenarios Prepare applications for deployment exploring various strategies to effectively distribute software to users Implement ClickOnce deployment for simplified distribution and automate application updates and maintenance ensuring continuous availability and reliability Monitor and troubleshoot deployed applications proactively addressing issues and maintaining optimal performance Join the ranks of skilled developers who embrace continuous learning and professional development Explore advanced .NET concepts and design patterns pushing the boundaries of software engineering Stay abreast of the latest trends and innovations in software development adapting to the ever changing landscape of technology Engage with communities and forums sharing knowledge and gaining insights from fellow developers Prepare for Microsoft

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is targeted at .NET developers who want to build complex machine learning systems. Some basic understanding of data science is required.

What You Will Learn

- Write your own machine learning applications and experiments using the latest .NET framework including .NET Core 1.0.
- Set up your business application to start using machine learning.
- Accurately predict the future using regressions.
- Discover hidden patterns using decision trees.
- Acquire, prepare, and combine datasets to drive insights.
- Optimize business throughput using Bayes Classifier.
- Discover more hidden patterns using KNN and Naive Bayes.
- Discover even more hidden patterns using K Means and PCA.
- Use Neural Networks to improve business decision making while using the latest ASP.NET technologies.
- Explore Big Data, distributed computing, and how to deploy machine learning models to IoT devices, making machines self-learning and adapting.
- Along the way, learn about Open Data, Bing maps, and MBrace.

In Detail, .NET is one of the widely used platforms for developing applications. With the meteoric rise of Machine learning, developers are now keen on finding out how can they make their .NET applications smarter. Also, .NET developers are interested in moving into the world of devices and how to apply machine learning techniques to "well machines". This book is packed with real-world examples to easily use machine learning techniques in your business applications. You will begin with an introduction to F# and prepare yourselves for machine learning using .NET framework. You will be writing a simple linear regression model using an example which predicts sales of a product. Forming a base with the regression model, you will start using machine learning libraries available in .NET framework such as Math.NET, Numl.NET, and Accord.NET with the help of a sample application. You will then move on to writing multiple linear regressions and logistic regressions. You will learn what is open data and the awesomeness of type providers. Next, you are going to address some of the issues that we have been glossing over so far and take a deep dive into obtaining, cleaning, and organizing our data. You will compare the utility of building a KNN and Naive Bayes model to achieve best possible results. Implementation of Kmeans and PCA using Accord.NET and Numl.NET libraries is covered with the help of an example application. We will then look at many of issues confronting creating real-world machine learning models like overfitting and how to combat them using confusion matrixes, scaling, normalization, and feature selection. You will now enter into the world of Neural Networks and move your line of business application to a hybrid scientific application. After you have covered all the above machine learning models, you will see how to deal with very large datasets using MBrace and how to deploy machine learning models to Internet of Thing (IoT) devices so that the machine can learn and adapt on the fly.

Style and approach

This book will guide you in learning everything about how to tackle the flood of data being encountered these days in your .NET applications with the help of popular machine learning libraries offered by the .NET framework.

[Programming ML.NET](#) Dino Esposito, Francesco Esposito, 2022-02-03

The expert guide to creating production machine learning solutions with ML.NET. ML.NET brings the power of machine learning to all .NET developers, and Programming ML.NET helps you apply it in real production solutions. Modeled on Dino Esposito's best-selling Programming ASP.NET, this book takes the same scenario-based approach. Microsoft

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