Predictive Analytics With Microsoft Azure Machine Learning

Predictive Analytics with Microsoft Azure Machine LearningData Lake Analytics on Microsoft AzureCloud Analytics with Microsoft AzureBig Data Analytics with Microsoft: Scalable Intelligence Using Azure Synapse, Fabric, and Power BICloud Analytics with Microsoft AzureExtreme DAXImplementing Analytics Solutions Using Microsoft Fabric—DP-600 Exam Study GuideHands-on Cloud Analytics with Microsoft Azure StackData Analysis with Microsoft Power BIMicrosoft Data Analytics For DummiesStream Analytics with Microsoft AzureIntroduction to Data Analytics Using Microsoft PowerBIMicrosoft® SQL Server 2008 R2 Analytics & Data VisualizationHR Analytics: Fundamentals and ApplicationsExam Ref DP-500 Designing and Implementing Enterprise-Scale Analytics Solutions Using Microsoft Azure and Microsoft Power BIMastering Azure AnalyticsBig Data Analytics with Microsoft HDInsight in 24 Hours, Sams Teach YourselfLearn Microsoft FabricAdvanced Analytics with Power BI and Excel: Learn powerful visualization and data analysis techniques using Microsoft BI tools along with Python and RMastering Microsoft Power BI Valentine Fontama Harsh Chawla Has Altaiar Swarup Panda Has Altaiar Michiel Rozema Jagjeet Singh Makhija Prashila Naik Brian Larson Jared Decker Anindita Basak Syed Raza Doug Harts Sandeep Kumar Kautish Daniil Maslyuk Zoiner Tejada Manpreet Singh Arshad Ali Dejan Sarka Brett Powell

data science and machine learning are in high demand as customers are increasingly looking for ways to glean insights from all their data more customers now realize that business intelligence is not enough as the volume speed and complexity of data now defy traditional analytics tools while business intelligence addresses descriptive and diagnostic analysis data science unlocks new opportunities through predictive and prescriptive analysis the purpose of this book is to provide a gentle and instructionally organized introduction to the field of data science and machine learning with a focus on building and deploying predictive models the book also provides a thorough overview of the microsoft azure machine learning service using task oriented descriptions and concrete end to end examples sufficient to ensure the reader can immediately begin using this important new service it describes all aspects of the service from data ingress to applying machine learning and evaluating the resulting model to deploying the resulting model as a machine learning web service finally this book attempts to have minimal dependencies so that you can fairly easily pick and choose chapters to read when dependencies do exist they are listed at the start and end of the chapter the simplicity of this new service from microsoft will help to take data science and machine learning to a much broader audience than existing products in this space learn how you can quickly build and deploy sophisticated predictive models as machine learning web services with the new azure machine learning service from microsoft

get a 360 degree view of how the journey of data analytics solutions has evolved from monolithic data stores and enterprise data warehouses to data lakes and modern data warehouses you will this book includes comprehensive coverage of how to architect data lake analytics solutions by choosing suitable technologies available on microsoft azure the advent of microservices applications covering ecommerce or modern solutions built on iot and how real time streaming data has completely disrupted this ecosystem these data analytics solutions have been transformed from solely understanding the trends from historical data to building predictions by infusing machine learning technologies into the solutions data platform professionals who have been working on relational data stores non relational data stores and big data technologies will find the content in this book useful the book also can help you start your journey into the data engineer world as it provides an overview of advanced data analytics and touches on data science concepts and various artificial intelligence and machine learning technologies available on microsoft azure what will you learn you will understand the concepts of data lake analytics the modern data warehouse and advanced data analytics architecture patterns of the modern data warehouse and advanced data analytics solutions phases such as data ingestion store prep and train and model and serve of data analytics solutions and technology choices available on azure under each phase in depth coverage of real time and batch mode data analytics solutions architecture various managed services available on azure such as synapse analytics event hubs stream analytics cosmosdb and managed hadoop services such as databricks and hdinsight who this book is for data platform professionals database architects engineers and solution architects

learn to extract actionable insights from your big data in real time using a range of microsoft azure features key featuresupdated with the latest features and new additions to microsoft azuremaster the fundamentals of cloud analytics using azurelearn to use azure synapse analytics formerly known as azure sql data warehouse to derive real time customer insightsbook 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 learnexplore the concepts of modern data warehouses and data pipelinesdiscover unique design considerations while applying a cloud analytics solutiondesign an end to end analytics pipeline on the clouddifferentiate between structured semi structured and unstructured datachoose a cloud based service for your data analytics solutionsuse azure services to ingest store and analyze data of any scalewho 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

this book is a complete guide for professionals and data enthusiasts who want to make the most of microsoft s cloud native ecosystem for big data analytics it covers essential services like azure synapse analytics microsoft fabric and power bi the book provides a full framework for scalable data processing and smart decision making readers will learn best practices for data ingestion transformation storage modeling and visualization they will also see how to combine data engineering data science and business intelligence workflows within a single microsoft environment with practical examples and architectural designs this book helps readers build secure effective and cost efficient analytics solutions that meet the needs of today s enterprises

leverage the power of azure to get efficient data insights from your big data in real time key features explore the basics of cloud analytics using azure discover different ways to process and visualize your data easily learn to use azure synapse analytics formerly known as azure sql data warehouse to derive real time customer insights book

description with data being generated at an exponential speed organizations all over the world are migrating their infrastructure to the cloud application management becomes much easier when you use a cloud platform to build manage and deploy your services and applications cloud analytics with microsoft azure covers all that you need to extract useful insights from your data you ll explore the power of data with big data analytics the internet of things iot machine learning artificial intelligence and dataops you ll also delve into data analytics by studying use cases that focus on creating actionable insights from near real time data as you advance you ll 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 ll have developed a solid understanding of data analytics with azure and its practical implementation what you will learn explore the concepts of modern data warehouses and data pipelines discover different 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 if you re planning to adopt the cloud analytics model for your business this book will help you understand the design and business considerations that you must keep in mind 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

discover the true power of dax and build advanced dax solutions for practical business scenarios key featuressolve complex business problems within microsoft bi tools including power bi sql server and exceldevelop a conceptual understanding of critical business data modeling principleslearn the subtleties of power bi data visualizations evaluation context context transition and filteringbook description this book helps business analysts generate powerful and sophisticated analyses from their data using dax and get the most out of microsoft business intelligence tools extreme dax will first teach you the principles of business intelligence good model design and how dax fits into it all then you ll launch into detailed examples of dax in real world business scenarios such as inventory calculations forecasting intercompany business and data security at each step senior dax experts will walk you through the subtleties involved in working with power bi models and common mistakes to look out for as you build advanced data aggregations you ll deepen your understanding of dax functions filters and measures and how and when they can be used to derive effective insights you ll also be provided with pbix files for each chapter so that you can follow along and explore in your own time what you will learnunderstand data modeling concepts and structures before you start working with daxgrasp how relationships in power bi models are different from those in rdbmsessecure aggregation levels attributes and hierarchies using path functions and row level securityget to grips with the crucial concept of contextapply advanced context and filtering functions including treatas generate and summarizeexplore dynamically changing visualizations with helper tables and dynamic labels and axeswork with week based calendars and understand standard time intelligenceevaluate investments intelligently with the xnpv and xirr financial dax functionswho this book is for extreme dax is written for analysts with a working knowledge

of dax in power bi or other microsoft analytics tools it will help you upgrade your knowledge and work with analytical models more effectively so you ll need practical experience with dax before you can get started

take your microsoft fabric skills to the next level with this essential guide designed to help you achieve dp 600 certification as well as boost your analytics expertise and advance your career key features master microsoft fabric to confidently appear for the dp 600 certification exam elevate your career with strategic knowledge and expert insights from microsoft professionals advance from foundational concepts to the expert deployment of analytics solutions purchase of the print or kindle book includes a free pdf ebook book description the dp 600 exam tests your ability to design and implement analytics solutions using microsoft fabric including planning data analytics environments managing data integration and security and optimizing performance written by two microsoft specialists with over three decades of combined experience this book will help you confidently prepare for the dp 600 exam by teaching you the skills that are essential for effectively implementing and designing analytics solutions you ll explore data analytics in microsoft fabric in detail and understand foundational topics such as data exploration sql querying and data transformation alongside advanced techniques such as semantic model optimization performance tuning and enterprise scale model design the book addresses strategic planning data integration security scalability and the complete project lifecycle including version control deployment and continuous improvement you ll also get to grips with practical sql integration with microsoft fabric components with mock exams to help you reinforce what you ve learned by the end of this book you ll be able to plan implement and optimize analytics solutions using microsoft fabric and you ll be well equipped with the practical skills needed to tackle real world data challenges and pass the dp 600 exam what will you learn gain in depth knowledge of microsoft fabric from the basics to advanced topics acquire practical skills for the effective use of microsoft technologies prepare to confidently pass the microsoft dp 600 certification exam enhance your career prospects with real world applicable knowledge gain strategic insights to excel in microsoft analytics and technology expand your professional network by connecting with industry experts apply advanced analytics skills to deliver impactful tech solutions grow your career to advance in the ever evolving world of microsoft technology who this book is for this book is for data analysts it professionals and technology consultants who want to enhance their skills in microsoft fabric it is also suitable for individuals preparing for the dp 600 certification exam as well as students and educators in the tech field to get the most out of this book you should have a foundational understanding of data analytics experience with microsoft technologies programming skills in c or sql database management knowledge and basic familiarity with microsoft certifications

explore and work with various microsoft azure services for real time data analytics key featuresÊ understanding what azure can do with your data understanding the analytics services offered by azure understand how data can be transformed to generate more data understand what is done after a machine learning model is builtÊ go through some

data analytics real world use cases ÊÊ descriptionÊ data is the key input for analytics building and implementing data platforms such as data lakes modern data marts and analytics at scale require the right cloud platform that azure provides through its services the book starts by sharing how analytics has evolved and continues to evolve following the introduction you will deep dive into ingestion technologies you will learn about data processing services in azure you will next learn about what is meant by a data lake and understand how azure data lake storage is used for analytical workloads you will then learn about critical services that will provide actual machine learning capabilities in azure the book also talks about azure data catalog for cataloging azure ad for access management apps and powerapps for cloud web applications cognitive services for speech vision search and language azure vm for computing and data science vms functions as serverless computing kubernetes and containers as deployment options towards the end the book discusses two use cases on analytics what will you learnÊÊ explore and work with various azure services orchestrate and ingest data using azure data factory learn how to use azure stream analytics get to know more about synapse analytics and its features learn how to use azure analysis services and its functionalities Ê who this book is forÊ this book is for anyone who has basic to intermediate knowledge of cloud and analytics concepts and wants to use microsoft azure for data analytics this book will also benefit data scientists who want to use azure for machine learning Ê table of contentsÊÊ 1 Ê data and its power 2 Ê evolution of analytics and its types 3 Ê internet of things 4 Ê ai and ml 5 Ê why cloud 6 Ê what are a data lake and a modern datamart 7 Ê introduction to azure services 8 Ê types of data 9 Ê azure data factory 10 stream analytics 11 azure data lake store and azure storage 12 cosmos db 13 Ê synapse analytics 14 Ê azure databricks 15 Ê azure analysis services 16 Ê power bi 17 Ê azure machine learning 18 Ê sample architectures and synergies real time and batch 19 Ê azure data catalog 20 Ê azure active directory 21 Ê azure webapps 22 Ê power apps 23 Ê time series insights 24 Ê azure cognitive services 25 Ê azure logicapps 26 Ê azure vm 27 Ê azure functions 28 Ê azure containers 29 Ê azure kubernetesÊ service 30 Ê use case 1 31 Ê use case 2

explore create and manage highly interactive data visualizations using microsoft power bi extract meaningful business insights from your disparate enterprise data using the detailed information contained in this practical guide written by a recognized bi expert and bestselling author data analysis with microsoft power bi teaches you the skills you need to interact with author and maintain robust visualizations and custom data models hands on exercises based on real life business scenarios clearly demonstrate each technique publishing your results to the power bi service powerbi com and power bi report server are also fully covered inside you will discover how to understand business intelligence and self service analytics explore the tools and features of microsoft power bi create and format effective data visualizations incorporate advanced interactivity and custom graphics build and populate accurate data models transform data using the power bi query editor work with measures calculated columns and tabular models write powerful dax language scripts share content on the powerbi service powerbi com store your visualizations on the power bi report server

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develop and manage effective real time streaming solutions by leveraging the power of microsoft azure about this book analyze your data from various sources using microsoft azure stream analytics develop manage and automate your stream analytics solution with microsoft azure a practical guide to real time event processing and performing analytics on the cloud who this book is for if you are looking for a resource that teaches you how to process continuous streams of data in real time this book is what you need a basic understanding of the concepts in analytics is all you need to get started with this book what you will learn perform real time event processing with azure stream analysis incorporate the features of big data lambda architecture pattern in real time data processing design a streaming pipeline for storage and batch analysis implement data transformation and computation activities over stream of events automate your streaming pipeline using powershell and the net sdk integrate your streaming pipeline with popular machine learning and predictive analytics modelling algorithms monitor and troubleshoot your azure streaming jobs effectively in detail microsoft azure is a very popular cloud computing service used by many organizations around the world its latest analytics offering stream analytics allows you to process and get actionable insights from different kinds of data in real time this book is your guide to understanding the basics of how azure stream analytics works and building your own analytics solution using its capabilities you will start with understanding what stream analytics is and why it is a popular choice for getting real time insights from data then you will be introduced to azure stream analytics and see how you can use the tools and functions in azure to develop your own streaming analytics over the course of the book you will be given comparative analytic guidance on using azure streaming with other microsoft data platform resources such as big data lambda architecture integration for real time data analysis and differences of scenarios for architecture designing with azure hdinsight hadoop clusters with storm or stream analytics the book also shows you how you can manage monitor and scale your solution for optimal performance by the end of this book you will be well versed in using azure stream analytics to develop an efficient

analytics solution that can work with any type of data style and approach a comprehensive guidance on developing real time event processing with azure stream analysis

microsoft business intelligence or power bi is a suite of business analytics tools to analyze data and share insights monitor your business and get answers quickly with rich dashboards available on every device data analytics field is growing exponentially learn introduction to data analytics using power bi online and power bi desktop power bi microsoft business intelligence offers basic data wrangling capabilities similar to excel s power query it also lets you create interactive visualizations reports and dashboards with a few clicks or drag and drops type natural language questions about your data on a dashboard and handle files that are too large for excel power bi transforms your company s data into rich visuals for you to collect and organize so you can focus on what matters to you stay in the know spot trends as they happen and push your business further it can work with dozens of data types not only excel access and csv files but also salesforce google analytics mailchimp github quickbooks online and dozens of others and it will run r scripts meaning that any data you can pull in and massage via r you can import into power bi we will use new york city public data set as well as existing samples in power bi so if you are looking for new ways to seek insights and create powerful visualization on the fly power bi is the answer you can transform your company s data into rich stunning easy to use visuals for you to collect and organize so you can spot trends collaborate in new ways and make sense of your data increase your skills this course contains the following lessons 1 learn data analytics microsoft business intelligence concepts and application 2 introduction to power bi online power bi desktop and the interface 3 be able to import data using both power bi online and power bi desktop 4 learn the difference between power bi online vs power bi desktop 5 master the skill of transforming big data real world data set new york city public data set 6 create stunning visualization 7 using quick insights analytics 8 asking questions from your big data using plain english language and much more what you ll learn understand how to use power bi online and power bi desktop perform big data analytics using real world scenario transform big data and customize create powerful visualization based on big data sharing dashboard with o

master the next generation business intelligence tools in sql server 2008 r2 effectively convey meaningful business insights to users across your enterprise with help from this practical guide written by a team of business intelligence experts microsoft sql server 2008 r2 analytics data visualization shows how to achieve greater information absorption using the latest reporting tools learn how to build maps and gauges integrate olap data and develop dashboards security performance tuning and cloud computing techniques are also covered in this comprehensive resource design and deploy chart based reports using ssrs 2008 r2 display geo spatial map data with location based indicators visually represent metrics and kpis on graphs and gauges distribute reports through sharepoint and performancepoint create and publish web page parts dashboards and mash ups set up and manage cloud based services using sql azure incorporate data mining and forecasting features with visio integrate large amounts of data using powerpoint for excel derive matrix table and chart data from olap cubes doug harts is a services executive at microsoft currently helping u s federal agencies

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analytics landscape and mastery over the essential concepts and principles of microsoft fabric what you will learn get acquainted with the different services available in microsoft fabric build end to end data analytics solution to scale and manage high performance integrate data from different types of data sources apply transformation with spark notebook and t sql understand and implement real time stream processing and data science capabilities perform end to end processes for building data analytics solutions in the ai era drive insights by leveraging power bi for reporting and visualization improve productivity with ai assistance and copilot integration who this book is for this book is for data professionals including data analysts data engineers data scientists data warehouse developers etl developers business analysts ai ml professionals software developers and chief data officers who want to build a future ready data analytics solution for long term success in the ai era for pyspark and sql students entering the data analytics field this book offers a broad foundation for developing the skills to build end to end analytics systems for various use cases basic knowledge of sql and spark is assumed

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data from multiple sources 3 power query transformations and formula language m overview 4 building a simple analytical solution with power pivot in excel 5 enhancing the model and business analysis with dax 6 creating reports in power bi desktop 7 using the power bi service 8 data science in power bi 9 optimizing power bi models and reports 10 deploying maintaining and securing power bi assets index

design create and manage robust power bi solutions to gain meaningful business insights key features master all the dashboarding and reporting features of microsoft power bi combine data from multiple sources create stunning visualizations and publish your reports across multiple platforms a comprehensive guide with real world use cases and examples demonstrating how you can get the best out of microsoft power bi book descriptionthis book is intended for business intelligence professionals responsible for the design and development of power bi content as well as managers architects and administrators who oversee power bi projects and deployments the chapters flow from the planning of a power bi project through the development and distribution of content to the administration of power bi for an organization bi developers will learn how to create sustainable and impactful power bi datasets reports and dashboards this includes connecting to data sources shaping and enhancing source data and developing an analytical data model additionally top report and dashboard design practices are described using features such as bookmarks and the power kpi visual bi managers will learn how power bi s tools work together such as with the on premises data gateway and how content can be staged and securely distributed via apps additionally both the power bi report server and power bi premium are reviewed by the end of this book you will be confident in creating effective charts tables reports or dashboards for any kind of data using the tools and techniques in microsoft power bi what you will learn build efficient data retrieval and transformation processes with the power query m language design scalable user friendly directquery and import data models develop visually rich immersive and interactive reports and dashboards maintain version control and stage deployments across development test and production environments manage and monitor the power bi service and the on premises data gateway develop a fully on premise solution with the power bi report server scale up a power bi solution via power bi premium capacity and migration to azure analysis services or sql server analysis services who this book is for business intelligence professionals and existing power bi users looking to master power bi for all their data visualization and dashboarding needs will find this book to be useful while understanding of the basic bi concepts is required some exposure to microsoft power bi will be helpful

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