

Predictive Analytics With Microsoft Azure Machine Learning

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Data Lake Analytics on Microsoft Azure
Cloud Analytics with Microsoft Azure - Second Edition
Big Data Analytics with Microsoft: Scalable Intelligence Using Azure Synapse, Fabric, and Power BI
Cloud Analytics with Microsoft Azure
Hands-on Cloud Analytics with Microsoft Azure Stack
Implementing Analytics Solutions Using Microsoft Fabric—DP-600 Exam Study Guide
Extreme DAX
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Mastering Azure Analytics
Exam Ref DP-500 Designing and Implementing Enterprise-Scale Analytics Solutions Using Microsoft Azure and Microsoft Power BI
Mastering Microsoft Power BI
Big Data Analytics with Microsoft HDInsight in 24 Hours, Sams Teach Yourself
Valentine Fontama Harsh Chawla Jack Lee Swarup Panda Has Altaiar Prashila Naik Jagjeet Singh Makhija Michiel Rozema Brian Larson Jared Decker Syed Raza Anindita Basak Doug Harts Sandeep Kumar Kautish Arshad Ali Patrik Borosch Zoiner Tejada Daniil Maslyuk Brett Powell Manpreet Singh

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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 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

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

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

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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

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book includes information about microsoft data tools including microsoft excel the industry leading spreadsheet tool power pivot power query power bi this book is perfect for non developers who have a need to use data to support their business decisions without looping in technical personnel with the newfound ability to rely on data to make better decisions business executives managers and employees will experience previously unreachable levels of productivity effectiveness and efficiency

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

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

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 implement microsoft technology roadmaps he is the author of microsoft office 2007 business intelligence and maintains a bi community website at officebicentral.com jim dugan is a solutions architect with the microsoft healthcare and benefits team in microsoft federal he previously served as technical director of microsoft s technology and innovation center in reston virginia tricia wilcox almas is a technical architect for business intelligence solutions for microlink llc a microsoft gold partner she has been developing solutions and managing it projects for more than 25 years

hr analytics fundamentals and applications provides a comprehensive exploration of the role of hr analytics in modern people management the book covers critical topics such as the

impact of hr analytics on organizational performance the use of predictive models in recruitment and employee performance and the benefits and challenges of implementing hr analytics it offers practical tools techniques and strategies to enhance hr decision making with a focus on real world applications this book is a valuable resource for hr professionals educators and anyone interested in leveraging analytics for strategic hr management key features the role of hr analytics in people management predictive analytics for recruitment and performance practical tools and templates for hr analytics challenges and opportunities of hr analytics future of hr analytics in organizations case studies

harness the power of microsoft fabric to develop data analytics solutions for various use cases guided by step by step instructions key features explore microsoft fabric and its features through real world examples build data analytics solutions for lakehouses data warehouses real time analytics and data science monitor manage and administer your fabric platform and analytics system to ensure flexibility performance security and control purchase of the print or kindle book includes a free pdf ebook book description discover the capabilities of microsoft fabric the premier unified solution designed for the ai era seamlessly combining data integration onelake transformation visualization universal security and a unified business model this book provides an overview of microsoft fabric its components and the wider analytics landscape in this book you ll explore workloads such as data factory synapse data engineering data science data warehouse real time analytics and power bi you ll learn how to build end to end lakehouse and data warehouse solutions using the medallion architecture unlock the real time analytics and implement machine learning and ai models as you progress you ll build expertise in monitoring workloads and administering fabric across tenants capacities and workspaces the book also guides you step by step through enhancing security and governance practices in microsoft fabric and implementing ci cd workflows with azure devops or github finally you ll discover the power of copilot an ai driven assistant that accelerates your analytics journey by the end of this book you ll have unlocked the full potential of ai driven data analytics gaining a comprehensive understanding of the 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

a practical guide to implementing a scalable and fast state of the art analytical data estate

key features store and analyze data with enterprise grade security and auditing perform batch streaming and interactive analytics to optimize your big data solutions with ease develop and run parallel data processing programs using real world enterprise scenarios book description azure data lake the modern data warehouse architecture and related data services on azure enable organizations to build their own customized analytical platform to fit any analytical requirements in terms of volume speed and quality this book is your guide to learning all the features and capabilities of azure data services for storing processing and analyzing data structured unstructured and semi structured of any size you will explore key techniques for ingesting and storing data and perform batch streaming and interactive analytics the book also shows you how to overcome various challenges and complexities relating to productivity and scaling next you will be able to develop and run massive data workloads to perform different actions using a cloud based big data modern data warehouse analytics setup you will also be able to build secure scalable data estates for enterprises finally you will not only learn how to develop a data warehouse but also understand how to create enterprise grade security and auditing big data programs by the end of this azure book you will have learned how to develop a powerful and efficient analytical platform to meet enterprise needs what you will learn implement data governance with azure services use integrated monitoring in the azure portal and integrate azure data lake storage into the azure monitor explore the serverless feature for ad hoc data discovery logical data warehousing and data wrangling implement networking with synapse analytics and spark pools create and run spark jobs with databricks clusters implement streaming using azure functions a serverless runtime environment on azure explore the predefined ml services in azure and use them in your app who this book is for this book is for data architects etl developers or anyone who wants to get well versed with azure data services to implement an analytical data estate for their enterprise the book will also appeal to data scientists and data analysts who want to explore all the capabilities of azure data services which can be used to store process and analyze any kind of data a beginner level understanding of data analysis and streaming will be required

helps users understand the breadth of azure services by organizing them into a reference framework they can use when crafting their own big data analytics solution

prepare for microsoft exam dp 500 and demonstrate your real world ability to design create and deploy enterprise scale data analytics solutions designed for business intelligence developers architects data analysts and other professionals this exam ref focuses on the critical thinking and decision making acumen needed for success at the microsoft certified azure enterprise data analyst associate level focus on the expertise measured by these objectives implement and manage a data analytics environment query and transform data implement and manage data models explore and visualize data this microsoft exam ref organizes its coverage by exam objectives features strategic what if scenarios to challenge you assumes you are a business intelligence developer architect data engineer data architect data analyst or another professional with power bi and azure experience about the exam exam dp 500 focuses on knowledge needed to govern and administer data analytics environments integrate analytics platforms into existing it infrastructure manage the analytics

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microsoft s newest business intelligence visualization and productivity tools this book s straightforward step by step approach shows you how to provision configure monitor and troubleshoot hdinsight and use hadoop cloud services to solve real analytics problems you ll gain more of hadoop s benefits with less complexity even if you re completely new to big data analytics every lesson builds on what you ve already learned giving you a rock solid foundation for real world success practical hands on examples show you how to apply what you learn quizzes and exercises help you test your knowledge and stretch your skills notes and tips point out shortcuts and solutions learn how to master core big data and nosql concepts value propositions and use cases work with key hadoop features such as hdfs2 and yarn quickly install configure and monitor hadoop hdinsight clusters in the cloud automate provisioning customize clusters install additional hadoop projects and administer clusters integrate analyze and report with microsoft bi and power bi automate workflows for data transformation integration and other tasks use apache hbase on hdinsight use sqoop or ssis to move data to or from hdinsight perform r based statistical computing on hdinsight datasets accelerate analytics with apache spark run real time analytics on high velocity data streams write mapreduce hive and pig programs register your book at informit.com register for convenient access to downloads updates and corrections as they become available

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