Predictive Analytics With Microsoft Azure Machine Learning

Predictive Analytics with Microsoft Azure Machine LearningCloud Analytics with Microsoft Azure - Second EditionData Lake Analytics on Microsoft AzureBig Data Analytics with Microsoft: Scalable Intelligence Using Azure Synapse, Fabric, and Power BIImplementing Analytics Solutions Using Microsoft Fabric—DP-600 Exam Study GuideCloud Analytics with Microsoft AzureMicrosoft® SQL Server 2008 R2 Analytics & Data VisualizationHands-on Cloud Analytics with Microsoft Azure StackHR Analytics: Fundamentals and ApplicationsData Analysis with Microsoft Power BIIntroduction to Data Analytics Using Microsoft PowerBIMicrosoft Data Analytics For DummiesExtreme DAXStream Analytics with Microsoft AzureGenerative AI for Business Analytics and Strategic Decision Making in Service IndustryLearn Microsoft FabricPro SQL Server 2008 AnalyticsData and Analytics in AccountingBusiness Analytics Case StudiesCloud Scale Analytics with Azure Data Services Valentine Fontama Jack Lee Harsh Chawla Swarup Panda Jagjeet Singh Makhija Has Altaiar Doug Harts Prashila Naik Sandeep Kumar Kautish Brian Larson Syed Raza Jared Decker Michiel Rozema Anindita Basak Venaik, Anita Arshad Ali Brian Paulen Ann C. Dzuranin Praveen Gujjar J. Patrik Borosch
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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

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

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

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

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

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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

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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

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

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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

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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

generative ai is transforming industries by enhancing how businesses analyze data generate content and automate complex processes its ability to produce diverse high quality outputs in areas like marketing customer engagement and software development is reshaping productivity and innovation by leveraging advanced models such as gans and transformers organizations can unlock new insights streamline decision making and personalize services at scale generative ai also plays a crucial role in detecting errors managing knowledge and mitigating harmful content contributing to safer and more efficient digital environments this technology not only accelerates growth but also democratizes access to powerful tools fostering creativity and problem solving across sectors generative ai for business analytics and strategic decision making in service industry provides a comprehensive exploration of how generative ai techniques can revolutionize business intelligence and data analytics practices it offers a detailed examination of innovative algorithms methodologies and tools for leveraging generative ai to extract actionable insights drive innovation and enhance decision making processes within the service industry covering topics such as big data generative adversarial networks gans and productivity management this book is an excellent resource for students academicians industry professionals researchers managers and more

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 descriptiondiscover 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

pro sql server 2008 analytics provides everything you need to know to develop sophisticated and visually appealing sales and marketing dashboards using sql server 2008 and to integrate those dashboards with sharepoint performancepoint and other key microsoft technologies the book begins by addressing the many misconceptions that surround the use of key performance indicators kpis and giving a brief overview of the business intelligence bi and reporting tools that can be combined on the microsoft platform to help you generate the results that you need the focus of the book is to help you implement a successful business intelligence project of your own the text discusses many of the required project planning components provides overviews and examples associated with microsoft s bi tools and gives detailed examples of successful dashboard implementations

data analytics in accounting an integrated approach develops an integrated data analysis and critical thinking skill set needed to be successful in the rapidly changing accounting profession following a pattern based approach to profiling cleaning and transforming data the book helps explore data from a variety of perspectives for analytical purposes and key data relationships the text guides students to develop the professional skills they need to plan perform and communicate data analyses effectively and efficiently in the real world this international edition introduces a new feature data analytics and decision making at the end of the book which offers students the opportunity to see how they can use data analytics to help solve realistic business problems in addition topical changes have been made in select chapters and brief exercises along with multiple choice questions have been revised in all the chapters

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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 learnimplement data governance with azure servicesuse integrated monitoring in the azure portal and integrate azure data lake storage into the azure monitorexplore the serverless feature for ad hoc data discovery logical data warehousing and data wranglingimplement networking with synapse analytics and spark poolscreate and run spark jobs with databricks clustersimplement streaming using azure functions a serverless runtime environment on azureexplore the predefined ml services in azure and use them in your appwho 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

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