

dp 100 designing and implementing a data science solution on azure

****DP 100 Designing and Implementing a Data Science Solution on Azure****

dp 100 designing and implementing a data science solution on azure is an essential skill set for data professionals looking to leverage Microsoft Azure's powerful cloud platform to build scalable, efficient, and intelligent data science solutions. As organizations increasingly rely on data-driven decision-making, mastering this certification and the underlying concepts can significantly enhance your ability to design, develop, and deploy advanced machine learning models and analytics workflows in the cloud.

In this article, we'll explore the core components of DP-100, the exam that focuses on designing and implementing data science solutions on Azure. We'll delve into the important concepts, tools, and best practices that every aspiring Azure data scientist should know to succeed in both the exam and real-world projects.

Understanding the DP-100 Certification

The DP-100 exam, officially named "Designing and Implementing a Data Science Solution on Azure," is a Microsoft certification aimed at professionals who want to demonstrate their expertise in applying data science and machine learning techniques using Azure services. It validates your ability to prepare data, develop models, and deploy scalable solutions using Azure Machine Learning (Azure ML) and related tools.

Who Should Pursue DP-100?

If you are a data scientist, machine learning engineer, or data analyst looking to deepen your knowledge of Azure's ML ecosystem, DP-100 is the perfect certification. Candidates typically have experience with Python, machine learning frameworks, and cloud concepts. This certification bridges the gap between data science theory and practical implementation using Azure's cloud infrastructure.

Exam Skills Measured

Microsoft outlines several key domains tested in the DP-100 exam, including:

- Preparing the data for modeling: cleaning, transforming, and exploring datasets.
- Developing models: selecting algorithms, training, tuning hyperparameters, and evaluating performance.
- Deploying and maintaining models: creating endpoints, managing lifecycle, and monitoring models in production.

- Automating workflows: using pipelines and Azure tools to streamline the data science process.

These areas reflect the end-to-end workflow that data scientists follow, making DP-100 a highly practical and hands-on exam.

Key Azure Services for Designing and Implementing Data Science Solutions

When working on data science projects in Azure, DP-100 candidates must be comfortable with several Azure services that facilitate building and deploying machine learning solutions.

Azure Machine Learning Studio

Azure Machine Learning Studio is a web-based integrated development environment (IDE) designed for managing the entire machine learning lifecycle. It offers a drag-and-drop interface and supports code-first workflows using Python and Jupyter notebooks. The studio allows you to build models, track experiments, and manage datasets in a collaborative environment.

Azure Databricks

Azure Databricks provides a fast, easy, and collaborative Apache Spark-based analytics platform. It is highly useful for big data processing and machine learning at scale. Data scientists use Databricks to prepare data, perform exploratory data analysis, and build machine learning models using familiar languages like Python, Scala, and SQL.

Azure Data Factory

Data Factory is Azure's data integration service that enables you to create data pipelines for moving and transforming data. Automating data ingestion and preparation is critical before model training, and Data Factory plays a pivotal role in orchestrating these workflows.

Azure Cognitive Services and Custom Vision

For pre-built AI capabilities like vision, language, and speech, Azure Cognitive Services provide APIs that can be integrated into data science solutions. Custom Vision allows you to train image classification models without deep machine learning expertise, which can be a valuable addition to your Azure ML toolkit.

Designing a Data Science Solution on Azure

Successfully designing a data science solution on Azure requires a well-thought-out approach that aligns with business objectives and leverages the right tools.

Step 1: Problem Definition and Data Understanding

Before jumping into coding or model building, clearly define the problem you want to solve. Is it a classification task, regression, or anomaly detection? Understanding the problem shapes your data collection and modeling strategy.

Next, gather and explore your data. Use Azure Data Lake Storage or Blob Storage to store raw datasets securely. Perform exploratory data analysis (EDA) using Azure ML notebooks or Databricks to identify patterns, outliers, and data quality issues.

Step 2: Data Preparation and Feature Engineering

Data cleansing and transformation are crucial for building reliable models. Handle missing values, normalize data, and encode categorical variables. Azure ML pipelines enable automation of these data preparation steps, ensuring reproducibility.

Feature engineering involves creating new variables that enhance model performance. This can be automated or manual, depending on the use case. Azure ML's feature stores help manage and reuse engineered features across projects.

Step 3: Model Development and Training

Choosing the right algorithm depends on your problem type and data characteristics. Start with baseline models such as logistic regression or decision trees, and then experiment with more complex models like gradient boosting or neural networks.

Azure ML supports various popular frameworks, including Scikit-learn, TensorFlow, and PyTorch. Use automated machine learning (AutoML) to quickly generate and compare models without extensive coding.

Step 4: Model Evaluation and Hyperparameter Tuning

Accurately assessing model performance is vital. Use metrics like accuracy, precision, recall, F1 score, or mean squared error based on your problem. Azure ML provides tools to track experiment metrics, making it easier to compare multiple runs.

Hyperparameter tuning improves model accuracy by optimizing settings like learning rate or tree

depth. Azure ML's HyperDrive service automates this process at scale.

Step 5: Deployment and Monitoring

Once your model is ready, deploy it as a real-time endpoint or batch scoring service using Azure ML. This enables integration into applications or analytics pipelines.

After deployment, continuously monitor model performance to detect data drift or degradation. Azure ML's model management tools help track versions, monitor usage, and retrain models when necessary.

Tips for Success with DP-100 and Real-World Data Science on Azure

Preparing for the DP-100 exam and applying knowledge in the real world can be challenging. Here are some valuable tips to keep in mind:

- **Practice Hands-On Labs:** Theoretical knowledge is important, but hands-on experience with Azure ML Studio, Databricks, and other Azure services is crucial for mastering the exam and practical skills.
- **Understand Azure Security and Compliance:** Data privacy and security are paramount. Learn how to secure data storage, manage access controls, and comply with regulations using Azure's security features.
- **Leverage Azure ML Pipelines:** Automating workflows not only saves time but also ensures reproducibility and scalability in data science projects.
- **Stay Updated:** Azure services evolve rapidly. Follow Microsoft's official updates and community forums to keep your skills current.
- **Use Real-World Datasets:** Experimenting with datasets from Kaggle or public repositories helps sharpen your data preparation and modeling skills.

Integrating DP-100 Skills into Your Career

Gaining expertise in designing and implementing data science solutions on Azure opens numerous career paths. Organizations across industries are adopting cloud-native AI and analytics solutions, creating demand for professionals skilled in Azure data science tools.

Jobs such as Azure Data Scientist, Machine Learning Engineer, and AI Specialist often require

familiarity with the concepts covered in DP-100. Moreover, the certification demonstrates your ability to handle end-to-end data science workflows, setting you apart in a competitive job market.

As cloud adoption grows, combining traditional data science knowledge with cloud platform skills like those validated by DP-100 will be a key differentiator. Whether you're building predictive models for healthcare, finance, retail, or IoT applications, mastering Azure's data science capabilities equips you to deliver impactful, scalable solutions.

Embarking on the journey of dp 100 designing and implementing a data science solution on azure not only enhances your technical expertise but also empowers you to transform raw data into actionable insights using one of the most advanced cloud platforms available today. By understanding the core principles, leveraging Azure's rich ecosystem, and applying best practices, you can create data-driven applications that drive innovation and business growth.

Frequently Asked Questions

What is the DP-100 exam in Azure?

The DP-100 exam, Designing and Implementing a Data Science Solution on Azure, measures your ability to apply data science and machine learning techniques using Azure services.

Which Azure services are commonly used in the DP-100 exam?

Key Azure services include Azure Machine Learning, Azure Databricks, Azure Data Factory, Azure Storage, and Azure Synapse Analytics.

How do you prepare data for machine learning in Azure for DP-100?

You can prepare data using Azure Machine Learning data labeling, data cleaning with Azure Databricks, and data transformation pipelines with Azure Data Factory.

What machine learning models are covered in the DP-100 exam?

The exam covers supervised and unsupervised learning models, including classification, regression, clustering, and deep learning models implemented using Azure ML SDK.

How is model deployment handled in Azure for DP-100 solutions?

Models are deployed as web services using Azure ML endpoints, which can be containerized with Docker and managed with Azure Kubernetes Service (AKS) or Azure Container Instances.

What is the role of automated machine learning (AutoML) in DP-100?

AutoML in Azure ML helps automate model selection, hyperparameter tuning, and training processes to efficiently build optimal machine learning models.

How do you monitor and manage deployed machine learning models on Azure?

Azure ML provides monitoring tools to track model performance, data drift, and usage metrics, enabling retraining or updating models as needed.

What security considerations are important when implementing data science solutions on Azure for DP-100?

Important considerations include securing data with Azure Key Vault, managing access with Azure Active Directory, encrypting data at rest and in transit, and ensuring compliance with organizational policies.

Additional Resources

****DP 100 Designing and Implementing a Data Science Solution on Azure: A Detailed Exploration****

dp 100 designing and implementing a data science solution on azure represents a critical certification and skill set for professionals aiming to harness the power of Microsoft Azure in the field of data science. As organizations increasingly rely on cloud platforms for scalable, efficient, and secure data science projects, understanding the nuances of DP-100 becomes essential. This article delves into the core components of designing and implementing data science solutions on Azure, highlighting the framework, tools, and best practices that define this certification and its practical applications.

Understanding the DP-100 Certification and Its Relevance

DP-100, officially known as "Designing and Implementing a Data Science Solution on Azure," is a Microsoft certification that validates a professional's ability to utilize Azure's cloud services to develop, train, and deploy machine learning models. This exam targets data scientists and machine learning engineers who require a comprehensive understanding of Azure Machine Learning and related services.

The certification distinguishes itself by focusing not only on theoretical machine learning techniques but also on the practical aspects of integrating these models within Azure's ecosystem. This includes data preparation, feature engineering, model selection, hyperparameter tuning, and operationalizing models through deployment pipelines.

Core Skills Tested in DP-100

Candidates preparing for the DP-100 exam must demonstrate proficiency across several domains:

- **Data Preparation:** Efficiently ingesting, cleaning, and transforming data using Azure Data Factory, Azure Databricks, or Azure Synapse Analytics.
- **Modeling:** Applying machine learning algorithms, including regression, classification, clustering, and recommendation systems, using Azure Machine Learning SDK and designer tools.
- **Model Training and Optimization:** Leveraging automated machine learning (AutoML), hyperparameter tuning, and distributed training to improve model performance.
- **Model Deployment and Management:** Deploying models as real-time endpoints or batch inference pipelines, and managing them with Azure Kubernetes Service (AKS) or Azure Container Instances (ACI).
- **Monitoring and Troubleshooting:** Ensuring models perform reliably in production by monitoring metrics, managing drift, and implementing necessary retraining workflows.

Key Features of Designing Data Science Solutions on Azure

The Azure platform offers a rich suite of services tailored to the end-to-end lifecycle of data science projects. Its integration with DP-100 certification underscores the importance of these features.

Data Integration and Preparation Tools

Azure provides a variety of tools to handle complex data workflows. Azure Data Factory enables orchestration of data pipelines, allowing data ingestion from multiple sources such as SQL databases, blob storage, or external APIs. Meanwhile, Azure Databricks offers a collaborative Apache Spark environment optimized for big data processing and machine learning tasks.

These services ensure that data scientists can prepare datasets efficiently, an essential step before model training. The ability to handle both structured and unstructured data in scalable environments is a significant advantage in Azure's data science ecosystem.

Azure Machine Learning Studio and SDK

At the heart of DP-100 is Azure Machine Learning, a cloud-based environment that supports both

code-first and low-code/no-code approaches. Azure ML Studio provides a drag-and-drop interface for building models, ideal for rapid prototyping or less code-intensive workflows. For advanced users, the Azure ML SDK offers Python APIs to customize experiments, manage compute targets, and automate ML pipelines.

This flexibility caters to a wide range of users, from data scientists who prefer scripting to business analysts leveraging pre-built modules. The seamless integration with Jupyter notebooks and popular frameworks like TensorFlow, PyTorch, and Scikit-learn makes Azure ML a versatile platform.

Model Training and Automated Machine Learning

DP-100 emphasizes not only manual model training but also the use of AutoML capabilities. Azure's AutoML automates the selection of algorithms and hyperparameters, expediting the development process while maintaining model accuracy.

Moreover, Azure supports distributed training on GPU clusters or compute clusters, which is critical for handling large datasets and complex models. This scalability ensures that the solution can grow alongside organizational needs without compromising performance.

Deployment and Operationalization

Deploying models into production is a cornerstone of implementing data science solutions. Azure facilitates model deployment through various mechanisms:

- **Real-Time Endpoints:** Deploying models as RESTful services allows real-time predictions.
- **Batch Inference Pipelines:** Ideal for scenarios involving large volumes of data processed on schedules.
- **Containerization:** Packaging models in Docker containers and deploying them on AKS ensures scalability and integration into existing microservices architectures.

The platform also supports continuous integration/continuous deployment (CI/CD) pipelines for ML models, enabling seamless updates and version control—a critical element for maintaining robust data science solutions in production.

Comparative Perspective: Azure vs. Other Cloud Providers

When assessing DP-100 and Azure's approach to data science, it is instructive to compare it with offerings from other major cloud providers such as AWS and Google Cloud.

Azure's Strengths

Azure distinguishes itself with a strong integration of machine learning services into its broader ecosystem, especially for enterprises already invested in Microsoft technologies like Azure Active Directory and Power BI. Its focus on hybrid cloud environments and on-premises integration through Azure Arc is particularly beneficial for organizations requiring data sovereignty or complex infrastructure setups.

Additionally, Azure Machine Learning's AutoML and drag-and-drop interface provide a lower barrier to entry for users without extensive coding experience, while still enabling advanced customization.

Areas for Consideration

While Azure offers a comprehensive suite, it can sometimes present a steeper learning curve due to the breadth of services and options. Users may find the interface less intuitive compared to Google Cloud's Vertex AI or AWS SageMaker, which emphasize simplicity and streamlined user experience.

Furthermore, pricing models can become complex, especially when combining multiple services like Databricks, Azure ML, and storage, which requires careful planning to optimize costs.

Best Practices for Designing and Implementing Data Science Solutions on Azure

Success in data science projects on Azure hinges on strategic planning and adherence to best practices that align with DP-100 principles.

Start with Clear Problem Definition and Data Strategy

Before engaging with Azure tools, define the business problem, identify relevant datasets, and establish data governance policies. This ensures that the data ingestion and preparation stages are aligned with organizational goals and compliance requirements.

Leverage Automated Tools Judiciously

While AutoML accelerates model development, it should complement—not replace—domain expertise. Data scientists should interpret model outputs critically and refine feature engineering to enhance model interpretability and performance.

Implement Robust Monitoring and Maintenance

Deploying a model is not the endpoint. Regular monitoring for data drift, performance degradation, and unusual inference patterns is vital. Azure's monitoring tools and integration with Azure Monitor and Application Insights allow continuous oversight and timely interventions.

Adopt Modular and Scalable Architectures

Design solutions that separate data ingestion, processing, model training, and deployment into modular components. This modularity facilitates scalability, debugging, and upgrades. Using containerized deployments and CI/CD pipelines further supports agile development and operational resilience.

The Future of Data Science on Azure and DP-100's Role

As organizations increasingly emphasize data-driven decision-making, the importance of certifications like DP-100 grows. Microsoft consistently updates Azure Machine Learning services to incorporate cutting-edge AI research, making the skills validated by DP-100 both current and future-proof.

Emerging trends such as responsible AI, explainable models, and MLOps integration are becoming integral to data science solutions. DP-100's focus on practical implementation primes professionals to adapt to these evolving demands effectively.

In conclusion, mastering DP-100 designing and implementing a data science solution on Azure equips data scientists and engineers with a robust toolkit to navigate complex data landscapes. By leveraging Azure's comprehensive capabilities and adhering to best practices, professionals can build scalable, efficient, and impactful data science solutions that drive tangible business outcomes.

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needed to apply scientific rigor and data exploration techniques to gain actionable insights and communicate results to stakeholders; use machine learning techniques to train, evaluate, and deploy models to build AI solutions that satisfy business objectives; use applications that involve natural language processing, speech, computer vision, and predictive analytics. About Microsoft Certification Passing this exam fulfills your requirements for the Microsoft Certified: Azure Data Scientist Associate credential, demonstrating that you understand how to implement and run machine learning workloads on Microsoft Azure; in particular, using Azure Machine Learning Service. See full details at: www.microsoft.com/learn

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Designing and Implementing a Data Science Solution on Azure: Study Guide with Practice Questions and Labs - First Edition

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dp 100 designing and implementing a data science solution on azure: Azure Machine Learning Engineering Sina Fakhraee, Balamurugan Balakreshnan, Megan Masanz, 2023-01-20 Fully build and productionize end-to-end machine learning solutions using Azure Machine Learning Service Key FeaturesAutomate complete machine learning solutions using Microsoft AzureUnderstand how to productionize machine learning modelsGet to grips with monitoring, MLOps, deep learning, distributed training, and reinforcement learningBook Description Data scientists working on productionizing machine learning (ML) workloads face a breadth of challenges at every step owing to the countless factors involved in getting ML models deployed and running. This book offers solutions to common issues, detailed explanations of essential concepts, and step-by-step instructions to productionize ML workloads using the Azure Machine Learning service. You'll see how data scientists and ML engineers working with Microsoft Azure can train and deploy ML models at scale by putting their knowledge to work with this practical guide. Throughout the book, you'll learn how to train, register, and productionize ML models by making use of the power of the Azure Machine Learning service. You'll get to grips with scoring models in real time and batch, explaining models to earn business trust, mitigating model bias, and developing solutions using an MLOps framework. By the end of this Azure Machine Learning book, you'll be ready to build and

Certification Guide is a meticulously structured resource designed to equip professionals with the knowledge and expertise necessary to harness the full potential of Azure's artificial intelligence and machine learning capabilities. In today's data-driven world, organizations increasingly rely on AI-driven solutions to enhance decision-making and drive innovation. This certification serves as a validation of proficiency in designing, building, training, and deploying machine learning models at scale using Microsoft Azure. Covering essential topics such as data preparation, model training, deployment strategies, and the implementation of machine learning workloads, this guide provides a comprehensive foundation for professionals seeking to establish or advance their careers in AI and data science. Beyond theoretical knowledge, this book emphasizes hands-on learning, enabling candidates to engage with real-world scenarios and practical exercises that mirror industry challenges. By systematically navigating the complexities of Azure AI services, candidates will develop the skills necessary to design intelligent solutions that address complex business problems. Whether you are a seasoned data professional looking to enhance your expertise or an aspiring data scientist embarking on a new journey, Microsoft Azure AI Data Scientists Associate (DP-100) Certification Guide serves as a definitive companion, reinforcing your technical capabilities and preparing you for certification success. We trust that the knowledge and skills gained through this book will empower you to excel in the field of artificial intelligence and drive meaningful innovation in your professional endeavors.

dp 100 designing and implementing a data science solution on azure: Exam DP-100: Azure Data Scientist Associate 48 Test Prep Questions Ger Arevalo, 2019-08-29 This book is designed to be an ancillary to the classes, labs, and hands on practice that you have diligently worked on in preparing to obtain your DP-100: Azure Data Scientist Associate certification. I won't bother talking about the benefits of certifications. This book tries to reinforce the knowledge that you have gained in your process of studying. It is meant as one of the end steps in your preparation for the DP-100 exam. This book is short, but It will give you a good gauge of your readiness. Learning can be seen in 4 stages: 1. Unconscious Incompetence 2. Conscious Incompetence 3. Conscious Competence 4. Unconscious Competence This book will assume the reader has already gone through the needed classes, labs, and practice. It is meant to take the reader from stage 2, Conscious Incompetence, to stage 3 Conscious Competence. At stage 3, you should be ready to take the exam. Only real-world scenarios and work experience will take you to stage 4, Unconscious Competence. Before we get started, we all have doubts when preparing to take an exam. What is your reason and purpose for taking this exam? Remember your reason and purpose when you have some doubts. Obstacle is the way. Control your mind, attitude, and you can control the situation. Persistence leads to confidence. Confidence erases doubts.

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dp 100 designing and implementing a data science solution on azure: Azure Data Engineer Associate Certification Guide Newton Alex, 2022-02-28 Become well-versed with data engineering concepts and exam objectives to achieve Azure Data Engineer Associate certification Key Features Understand and apply data engineering concepts to real-world problems and prepare

for the DP-203 certification exam Explore the various Azure services for building end-to-end data solutions Gain a solid understanding of building secure and sustainable data solutions using Azure services

Book Description Azure is one of the leading cloud providers in the world, providing numerous services for data hosting and data processing. Most of the companies today are either cloud-native or are migrating to the cloud much faster than ever. This has led to an explosion of data engineering jobs, with aspiring and experienced data engineers trying to outshine each other. Gaining the DP-203: Azure Data Engineer Associate certification is a sure-fire way of showing future employers that you have what it takes to become an Azure Data Engineer. This book will help you prepare for the DP-203 examination in a structured way, covering all the topics specified in the syllabus with detailed explanations and exam tips. The book starts by covering the fundamentals of Azure, and then takes the example of a hypothetical company and walks you through the various stages of building data engineering solutions. Throughout the chapters, you'll learn about the various Azure components involved in building the data systems and will explore them using a wide range of real-world use cases. Finally, you'll work on sample questions and answers to familiarize yourself with the pattern of the exam. By the end of this Azure book, you'll have gained the confidence you need to pass the DP-203 exam with ease and land your dream job in data engineering.

What you will learn Gain intermediate-level knowledge of Azure the data infrastructure Design and implement data lake solutions with batch and stream pipelines Identify the partition strategies available in Azure storage technologies Implement different table geometries in Azure Synapse Analytics Use the transformations available in T-SQL, Spark, and Azure Data Factory Use Azure Databricks or Synapse Spark to process data using Notebooks Design security using RBAC, ACL, encryption, data masking, and more Monitor and optimize data pipelines with debugging tips

Who this book is for This book is for data engineers who want to take the DP-203: Azure Data Engineer Associate exam and are looking to gain in-depth knowledge of the Azure cloud stack. The book will also help engineers and product managers who are new to Azure or interviewing with companies working on Azure technologies, to get hands-on experience of Azure data technologies. A basic understanding of cloud technologies, extract, transform, and load (ETL), and databases will help you get the most out of this book.

dp 100 designing and implementing a data science solution on azure: Practitioner's Guide to Data Science Nasir Ali Mirza, 2022-01-17 Covers Data Science concepts, processes, and the real-world hands-on use cases. **KEY FEATURES** ● Covers the journey from a basic programmer to an effective Data Science developer. ● Applied use of Data Science native processes like CRISP-DM and Microsoft TDSP. ● Implementation of MLOps using Microsoft Azure DevOps. **DESCRIPTION** How is the Data Science project to be implemented? has never been more conceptually sounding, thanks to the work presented in this book. This book provides an in-depth look at the current state of the world's data and how Data Science plays a pivotal role in everything we do. This book explains and implements the entire Data Science lifecycle using well-known data science processes like CRISP-DM and Microsoft TDSP. The book explains the significance of these processes in connection with the high failure rate of Data Science projects. The book helps build a solid foundation in Data Science concepts and related frameworks. It teaches how to implement real-world use cases using data from the HMDA dataset. It explains Azure ML Service architecture, its capabilities, and implementation to the DS team, who will then be prepared to implement MLOps. The book also explains how to use Azure DevOps to make the process repeatable while we're at it. By the end of this book, you will learn strong Python coding skills, gain a firm grasp of concepts such as feature engineering, create insightful visualizations and become acquainted with techniques for building machine learning models. **WHAT YOU WILL LEARN** ● Organize Data Science projects using CRISP-DM and Microsoft TDSP. ● Learn to acquire and explore data using Python visualizations. ● Get well versed with the implementation of data pre-processing and Feature Engineering. ● Understand algorithm selection, model development, and model evaluation. ● Hands-on with Azure ML Service, its architecture, and capabilities. ● Learn to use Azure ML SDK and MLOps for implementing real-world use cases. **WHO THIS BOOK IS FOR** This book is intended for

programmers who wish to pursue AI/ML development and build a solid conceptual foundation and familiarity with related processes and frameworks. Additionally, this book is an excellent resource for Software Architects and Managers involved in the design and delivery of Data Science-based solutions. TABLE OF CONTENTS 1. Data Science for Business 2. Data Science Project Methodologies and Team Processes 3. Business Understanding and Its Data Landscape 4. Acquire, Explore, and Analyze Data 5. Pre-processing and Preparing Data 6. Developing a Machine Learning Model 7. Lap Around Azure ML Service 8. Deploying and Managing Models

dp 100 designing and implementing a data science solution on azure: Exam Ref DP-900 Microsoft Azure Data Fundamentals Nicola Farquharson, 2024-04-22 Prepare for Microsoft Exam DP-900 and demonstrate your real-world foundational knowledge of core data concepts and how they are implemented using Microsoft Azure data services. Designed for business users, functional consultants, and other professionals, this Exam Ref focuses on the critical thinking and decision-making acumen needed for success at the Microsoft Certified: Azure Data Fundamentals level. Focus on the expertise measured by these objectives: Describe core data concepts within Microsoft Azure Describe how to work with both relational and non-relational data types on Azure Describe strategic application, data management, storage and processing in the Azure cloud environment Describe an analytics workload on Azure This Microsoft Exam Ref: Organizes its coverage by the Skills Measured list published for the exam Features strategic, what-if scenarios to challenge you Assumes you have foundational knowledge of core data concepts and their implementation with Microsoft Azure data services, and a general grasp of cloud concepts

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