



MICROSOFT TRAINING

Microsoft Data Science Bootcamp

Master Microsoft's data science tools, including Azure Machine Learning, to build and deploy intelligent solutions.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

The Microsoft Data Science Bootcamp is an intensive, intermediate-level program designed to equip participants with the essential skills and knowledge to excel in the rapidly evolving field of data science using Microsoft's powerful ecosystem. This bootcamp dives deep into core data science concepts, from data acquisition and preparation to model development, deployment, and sophisticated data visualization. You will gain hands-on experience with industry-leading Microsoft technologies, mastering the tools necessary to transform raw data into actionable business intelligence.

Throughout this bootcamp, you'll work extensively with Microsoft Azure services, including Azure Machine Learning for building, training, and deploying AI models, and Azure Synapse Analytics for large-scale data warehousing and big data analytics. Furthermore, you will develop strong proficiency in data manipulation and statistical analysis using Python or R within the Azure environment. A significant portion of the course focuses on creating compelling interactive dashboards and reports using Microsoft Power BI, enabling you to communicate complex data insights effectively to stakeholders.

Upon completion, you will not only possess a robust understanding of data science methodologies but also practical expertise in applying them using Microsoft's comprehensive suite of tools. This empowers you to make data-driven decisions, optimize business processes, and unlock new opportunities, significantly enhancing your career prospects as a skilled data professional in diverse industries. The bootcamp is tailored to provide a solid foundation for those looking to specialize in data science within the Microsoft cloud ecosystem.

Duration	2 hours
Level	Intermediate
Vendor	Microsoft

COURSE CURRICULUM

01 Module 1: Introduction to Microsoft Data Science & Azure Fundamentals

- Understanding the Data Science Lifecycle
- Overview of Microsoft Azure for Data Professionals
- Introduction to Azure Machine Learning Studio workspace
- Data Exploration and Basic Preparation in Azure environments

02 Module 2: Data Engineering & Wrangling with Azure Synapse

- Data Ingestion and Storage using Azure Data Lake Storage Gen2
- Data Cleaning and Transformation with Azure Synapse Analytics
- SQL and Spark within Azure Synapse for data processing
- Feature Selection and Engineering techniques

03 Module 3: Machine Learning Model Development on Azure ML

- Building Classification Models (e.g., Logistic Regression, Decision Trees) using Azure ML
- Developing Regression Models (e.g., Linear Regression, Gradient Boosting) in Azure
- Model Training, Validation, and Evaluation metrics
- Hyperparameter tuning and AutoML capabilities in Azure ML

04 Module 4: Model Deployment, Monitoring & MLOps with Azure

- Deploying Machine Learning Models as Web Services (Azure Kubernetes Service, Azure Container Instances)
- Monitoring Model Performance and Drift

- Introduction to MLOps principles and practices on Azure
- Responsible AI and Explainable AI (XAI) concepts within Azure ML

05 Module 5: Data Visualization & Business Intelligence with Power BI

- Connecting Power BI to various Azure Data Sources (Azure SQL Database, Azure Data Lake)
- Creating Interactive Dashboards and Reports in Power BI
- DAX (Data Analysis Expressions) for advanced calculations and custom measures
- Data Storytelling and Sharing Power BI reports with stakeholders

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Azure Data Scientist**
- > **Cloud-focused Machine Learning Engineer**
- > **Business Intelligence Developer (Microsoft Stack)**

FREQUENTLY ASKED QUESTIONS

Q: What are the core prerequisites for enrolling in the Microsoft Data Science Bootcamp, particularly regarding programming experience or familiarity with cloud services?

While formal prerequisites are minimal, a foundational understanding of programming concepts, ideally in Python or R, and basic statistical knowledge will be highly beneficial. Familiarity with cloud computing concepts is a plus, but not strictly required as we will cover Azure fundamentals. The bootcamp is designed for intermediate learners eager to apply their analytical skills within the Microsoft ecosystem.

Q: How will mastering Microsoft Azure services in this bootcamp translate into practical, real-world data science projects and improve my employability?

This bootcamp focuses on hands-on application of Azure Machine Learning, Azure Synapse Analytics, and Power BI, which are widely adopted in enterprise environments. You'll learn to build end-to-end data science solutions – from data ingestion and model training to deployment and visualization – using tools that are actively sought by employers. This practical experience makes you highly competitive for roles requiring proficiency in Microsoft's cloud-based data science platforms, directly enhancing your employability for positions like Azure Data Scientist or ML Engineer.

Q: Does this bootcamp prepare me for any specific Microsoft certifications, and if so, which ones are most relevant to pursue after completion?

Yes, this bootcamp provides a strong foundation for several Microsoft certifications. It is highly aligned with the objectives of the Microsoft Certified: Azure Data Scientist Associate (DP-100) exam, covering key skills in designing and implementing a data science solution on Azure. Additionally, the Power BI module will contribute significantly to preparing you for the Microsoft Certified: Power BI Data Analyst Associate (PL-300) certification, making you versatile across data science and business intelligence roles.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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