

DP-100T01-A Designing and implementing a Data Science Solution on Azure Learning Resources (new)

MODULE 1 - Getting Started with Azure Machine Learning

Microsoft Learn: Introduction to Azure Machine Learning

<https://docs.microsoft.com/learn/modules/intro-to-azure-machine-learning-service>

Azure Machine Learning architecture and concepts documentation

<https://docs.microsoft.com/azure/machine-learning/concept-azure-machine-learning-architecture>

Azure Machine Learning studio documentation

<https://docs.microsoft.com/azure/machine-learning/overview-what-is-machine-learning-studio>

Azure Machine Learning enterprise security documentation

<https://docs.microsoft.com/azure/machine-learning/concept-enterprise-security>

Azure Machine Learning Python SDK documentation

<https://docs.microsoft.com/python/api/overview/azure/ml/intro>

Azure Machine Learning extension for Visual Studio Code documentation

<https://docs.microsoft.com/azure/machine-learning/tutorial-setup-vscode-extension>

MODULE 2 - No-Code Machine Learning

Microsoft Learn: Create no-code predictive models with Azure Machine Learning

<https://docs.microsoft.com/learn/paths/create-no-code-predictive-models-azure-machine-learning>

Automated Machine Learning documentation

<https://docs.microsoft.com/azure/machine-learning/concept-automated-ml>

Designer documentation

<https://docs.microsoft.com/azure/machine-learning/concept-designer>

MODULE 3

Microsoft Learn: Introduction to Azure Machine Learning

<https://docs.microsoft.com/learn/modules/intro-to-azure-machine-learning-service>

Microsoft Learn: Train a machine learning model with Azure Machine Learning

<https://docs.microsoft.com/learn/modules/train-local-model-with-azure-mls>

Azure Machine Learning training run documentation

<https://docs.microsoft.com/azure/machine-learning/how-to-set-up-training-targets>

MODULE 4

Microsoft Learn: Work with Data in Azure Machine Learning

<https://docs.microsoft.com/learn/modules/work-with-data-in-aml/>

Azure Machine Learning data documentation

<https://docs.microsoft.com/azure/machine-learning/concept-data>

MODULE 5

Microsoft Learn: Work with Compute in Azure Machine Learning

<https://docs.microsoft.com/learn/modules/use-compute-contexts-in-aml/>

Azure Machine Learning environments documentation

<https://docs.microsoft.com/azure/machine-learning/concept-environments>

Azure Machine Learning compute targets documentation

<https://docs.microsoft.com/azure/machine-learning/concept-compute-target>

Microsoft Learn: Perform data science with Azure Databricks

<https://docs.microsoft.com/learn/paths/perform-data-science-azure-databricks/>

MODULE 6

Microsoft Learn: Orchestrate machine learning with pipelines

<https://docs.microsoft.com/learn/modules/create-pipelines-in-aml/>

Azure Machine Learning pipelines documentation

<https://docs.microsoft.com/azure/machine-learning/how-to-create-your-first-pipeline>

Azure Machine Learning ML Ops documentation

<https://docs.microsoft.com/azure/machine-learning/concept-model-management-and-deployment>

Azure Machine Learning events documentation

<https://docs.microsoft.com/azure/machine-learning/how-to-use-event-grid>

MODULE 7

Microsoft Learn: Deploy real-time machine learning services with Azure Machine Learning

<https://docs.microsoft.com/learn/modules/register-and-deploy-model-with-aml>

Microsoft Learn: Deploy batch inference pipelines with Azure Machine Learning

<https://docs.microsoft.com/learn/modules/deploy-batch-inference-pipelines-with-azure-machine-learning>

Azure Machine Learning model deployment documentation

<https://docs.microsoft.com/en-us/azure/machine-learning/how-to-deploy-and-where>

CI/CD with Azure Pipelines documentation

<https://docs.microsoft.com/azure/devops/pipelines/targets/azure-machine-learning>

CI/CD with GitHub Actions documentation

<https://docs.microsoft.com/azure/machine-learning/how-to-github-actions-machine-learning>

MODULE 8

Microsoft Learn: Tune hyperparameters with Azure Machine Learning

<https://docs.microsoft.com/learn/modules/tune-hyperparameters-with-azure-machine-learning/>

Microsoft Learn: Automate machine learning model selection with Azure Machine Learning

<https://docs.microsoft.com/learn/modules/automate-model-selection-with-azure-automl/>

Azure Machine Learning hyperparameter tuning documentation

<https://docs.microsoft.com/azure/machine-learning/how-to-tune-hyperparameters>

Azure Machine Learning automated machine learning documentation

<https://docs.microsoft.com/azure/machine-learning/how-to-configure-auto-train>

MODULE 9

Microsoft Learn: Explore differential privacy

<https://docs.microsoft.com/learn/modules/explore-differential-privacy>

Microsoft Learn: Explain machine learning models with Azure Machine Learning

<https://docs.microsoft.com/learn/modules/explain-machine-learning-models-with-azure-machine-learning>

Microsoft Learn: Detect and mitigate unfairness in models with Azure Machine Learning

<https://docs.microsoft.com/learn/modules/detect-mitigate-unfairness-models-with-azure-machine-learning>

Azure Machine Learning responsible ML documentation

<https://docs.microsoft.com/azure/machine-learning/concept-responsible-ml>

MODULE 10

Microsoft Learn: Monitor models with Azure Machine Learning

<https://docs.microsoft.com/learn/modules/monitor-models-with-azure-machine-learning>

Microsoft Learn: Monitor data drift with Azure Machine Learning

<https://docs.microsoft.com/learn/modules/monitor-data-drift-with-azure-machine-learning>

Azure Machine Learning monitoring with Application Insights documentation

<https://docs.microsoft.com/azure/machine-learning/how-to-enable-app-insights>

Azure Machine Learning data drift documentation

<https://docs.microsoft.com/azure/machine-learning/how-to-monitor-datasets>

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Administer containers in Azure

<https://docs.microsoft.com/learn/paths/administer-containers-in-azure>

Use GitHub Actions with Azure Machine Learning

[GitHub Actions for CI/CD - Azure Machine Learning | Microsoft Docs](#)

Getting Started with MLOpsPython

[MLOpsPython/getting_started.md at master · microsoft/MLOpsPython \(github.com\)](#)

Responsible AI principles from Microsoft

<https://www.microsoft.com/en-gb/ai/responsible-ai?activetab=pivot1%3aprimar6>

Responsible AI Resources

[Responsible AI Resources – Microsoft AI](#)

Microsoft Approach to responsible AI

[Our approach to responsible AI at Microsoft](#)

AI School: Classes & Learning Paths

[AI School: Classes & Learning Paths – Microsoft AI](#)

AI Business School

[AI Business School Artificial Intelligence Courses - Microsoft AI](#)