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Course Modules

1. Design and prepare a machine learning solution

Design a machine learning solution

- Determine the appropriate compute specifications
- Describe model deployment requirements
- Select which dvpmt approach to use to build or train a model

Manage an Azure Machine Learning workspace

- Create an Azure Machine Learning workspace
- Manage a workspace by using developer tools
- Set up Git integration for source control
- Create and manage registries

Manage data in an Azure Machine Learning workspace

- Select Azure Storage resources
- Register and maintain datastores
- •Create and manage data assets

Manage compute for experiments in Azure ML

- Create compute targets for experiments and training
- •Select an environment for a machine learning use case
- Attached compute resources, including Apache Spark pools
- Monitor compute utilization

2. Explore data and train models

Explore data by using data assets and data stores

- Access and wrangle data during interactive development
- •Wrangle interactive data with Apache Spark

Create models by using the Azure MLearning designer

- Create a training pipeline
- Consume data assets from the designer
- Use custom code components in designer
- Evaluate the model, including responsible AI guidelines

Use automated ML to explore optimal models

- Use automated machine learning for tabular data
- Use automated machine learning for computer vision
- Use automated machine learning for natural language processi
- Select and understand training options
- Evaluate an automated machine learning run

Use notebooks for custom model training

- Develop code by using a compute instance
- Track model training by using MLflow
- Evaluate a model
- Train a model by using Python SDKv2
- •Use the terminal to configure a compute instance



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Tune hyperparameters with Azure Machine Learning

- Select a sampling method
- Define the search space
- Define the primary metric
- Define early termination options

3. Prepare a model for deployment

Run model training scripts

- Configure job run settings for a script
- Configure compute for a job run
- Consume data from a data asset in a job
- •Run a script as a job by using Azure Machine Learning
- •Use MLflow to log metrics from a job run
- Use logs to troubleshoot job run errors
- Configure an environment for a job run
- Define parameters for a job

Implement training pipelines

- Create a pipeline
- Pass data between steps in a pipeline
- •Run and schedule a pipeline
- Monitor pipeline runs
- Create custom components
- Use component-based pipelines



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Manage models in Azure Machine Learning

- Describe MLflow model output
- · Identify an appropriate framework to package a model
- Assess a model by using responsible AI guidelines

4. Deploy and retrain a model

Deploy a model

- Configure settings for online deployment
- Configure compute for a batch deployment
- · Deploy a model to an online endpoint
- Deploy a model to a batch endpoint
- Test an online deployed service
- Invoke the batch endpoint to start a batch scoring job

Apply machine learning operations (MLOps) practices

- •Trigger an Azure Machine Learning job
- ·Automate model retrain based on new data adds or data chng
- Define event-based retraining triggers



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The efficiency of online learning in terms of time management, flexibility, and the ability to access resources anytime, anywhere can be compelling.



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