

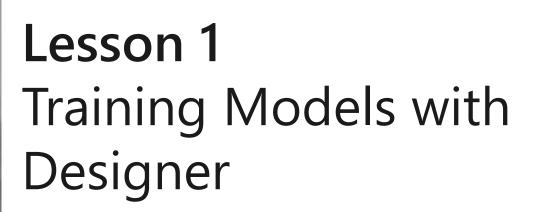
Module 2: "No-code" Machine Learning with Designer

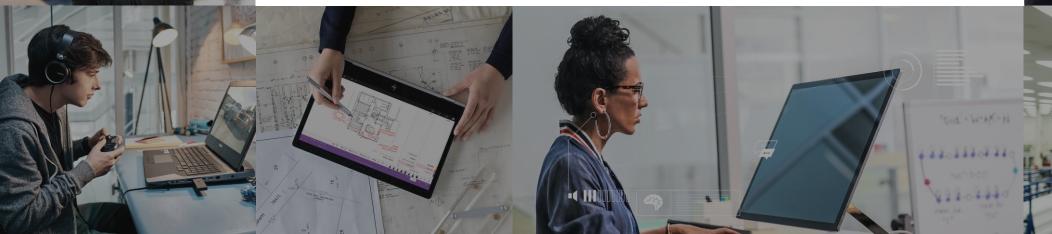


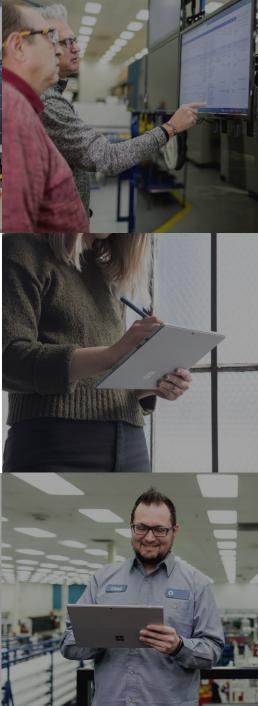
Agenda

- Training Models with Designer
- Publishing Models with Designer





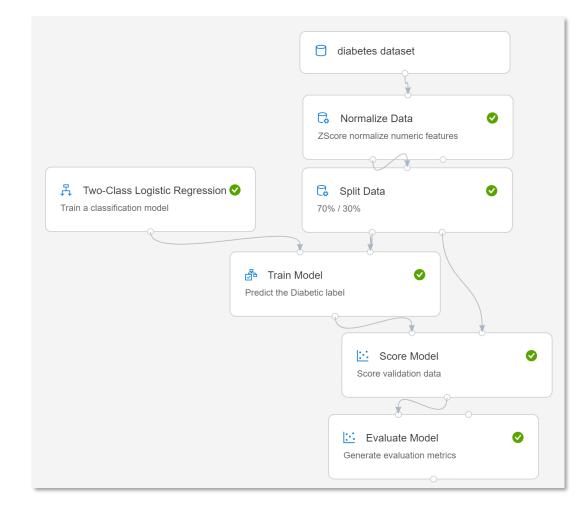




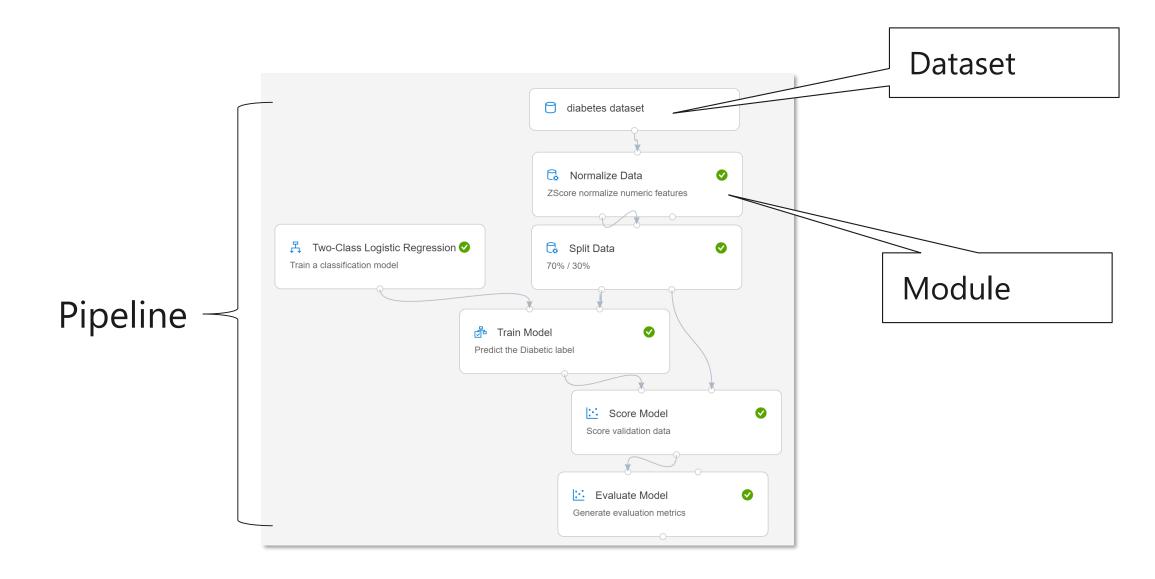
What is Azure Machine Learning Designer?

Drag-and-Drop Interface for:

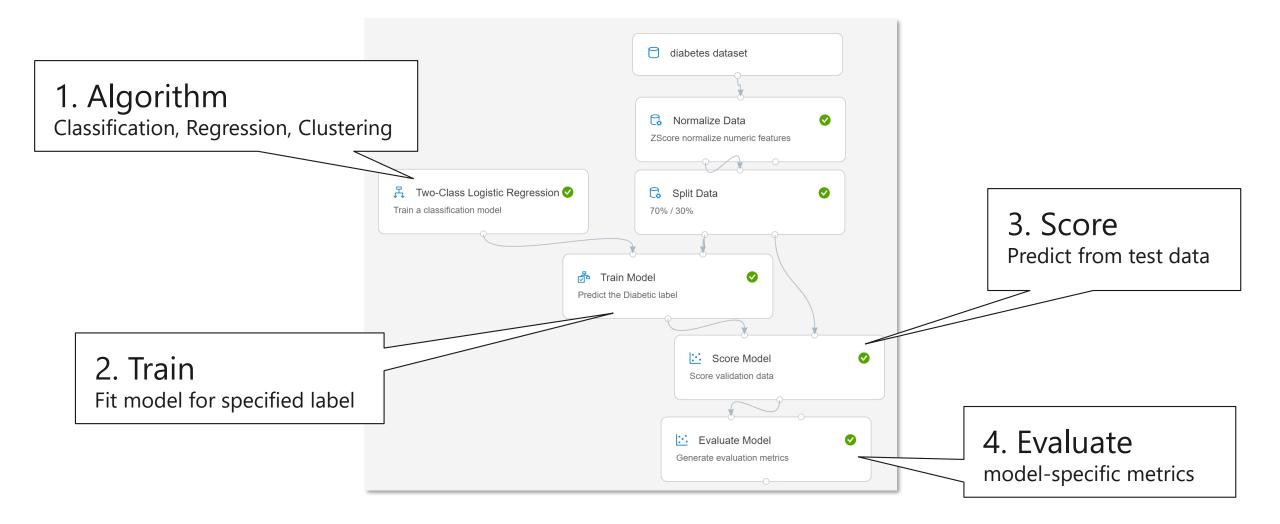
- · Preparing data and training models
- Publishing models as services



Designer Pipelines and Modules



Training, Scoring, and Evaluating Models



Custom Code Modules

Apply SQL Transformation	Use a SQL statement to process up to three input tables
Execute Python Script	Implement a custom Python function to process up to two dataframes
Create Python Model	Implement a custom Python model in place of a built-in algorithm
Execute R Script	Implement a custom R function to process up to two dataframes

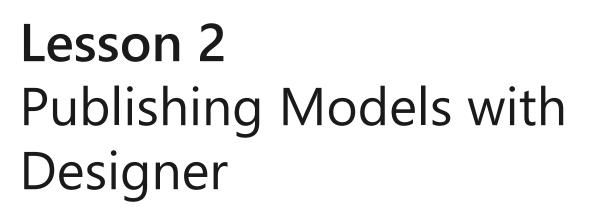


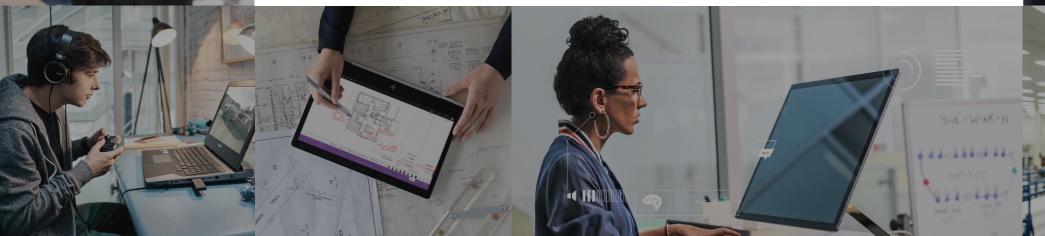
Lab 2A

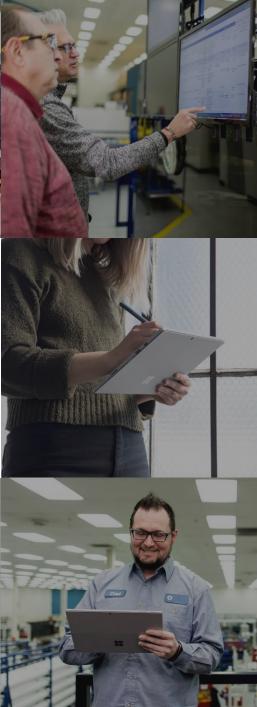
Creating a Training Pipeline with the Azure ML Designer

https://aka.ms/msl-dp100





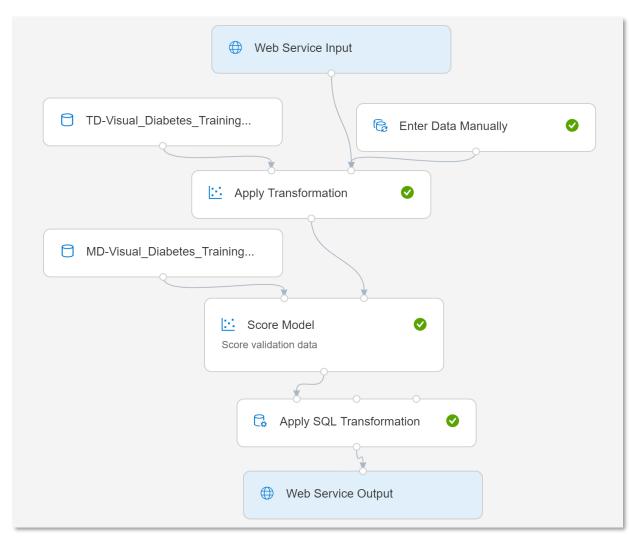




What is an Inference Pipeline?

A data flow defining a web service for using the trained model

- A **Web Service Input** defines the input data schema
- Transformations based on training data are encapsulated in datasets
- The trained model is encapsulated in a dataset
- A **Web Service Output** defines the output data schema
- You may want to modify the pipeline before deploying its as a web service



Publishing a Service Endpoint



- Deploy a Real-Time Pipeline:
 - Requires Azure Kubernetes Services Inference Compute
 - Submit new data to HTTP endpoint for immediate results



- Publish a Batch Pipeline
 - · Requires Azure Machine Learning Training Compute
 - · Initiate pipeline experiment run through HTTP endpoint
 - $\cdot\,$ Results saved in run output

Consuming a Service Endpoint

- View endpoints in Azure Machine Learning studio
- Use starter code to build client applications



Lab 2B

Deploying a Service with the Azure ML Designer

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