

Azure ML Guide

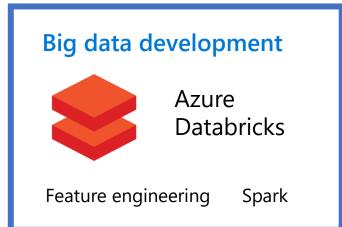
Part 2 – Automated ML

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Architecture









Azure Data Lake Gen 2

Getting started

Azure provisioning

This workshop will assume services are organized within a resource group, so go ahead and create a new RG along with these services:

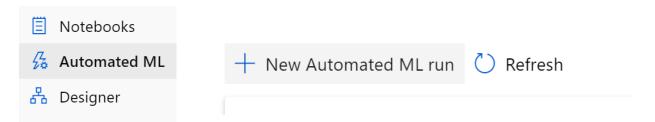
- Azure Data Lake Gen 2
 - · Hierarchical namespace enabled
- Azure Databricks
 - Premium tier
- Azure Machine Learning
 - Enterprise edition

Azure Machine Learning

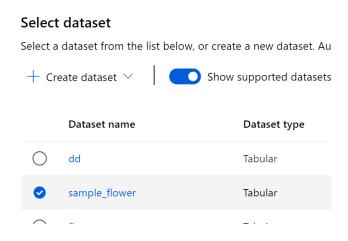
Please refer to Part 1 of the Guide series on how to create dataset and compute cluster in Azure ML

Go to Azure ML studio UI (ml.azure.com)

Automated ML \rightarrow Computer clusters \rightarrow Create / New

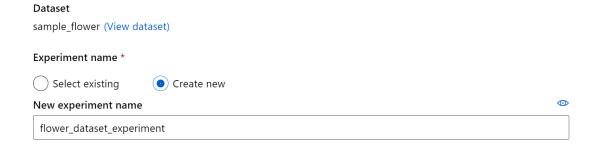


 You can select a dataset (or even create a new one – Part 1 of the Guide series has the details)



Azure Machine Learning

Click on create new experiment and give it a name

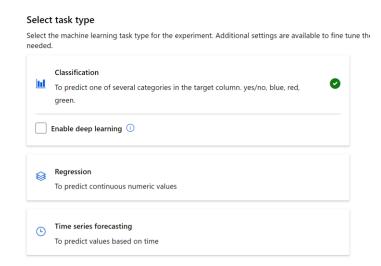


 Select the column of the label and the compute cluster (creating one is detailed in Part 1 of the Guide series)



Azure Machine Learning

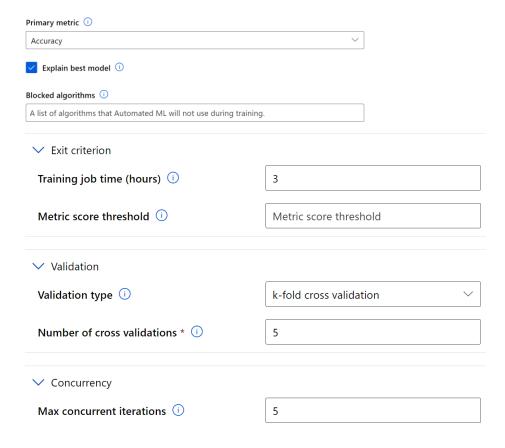
 You can pick the type of machine learning, between Classification, Regression, and Time series forecasting. Select Classification for now



Remember to consider additional configurations and featurization settings

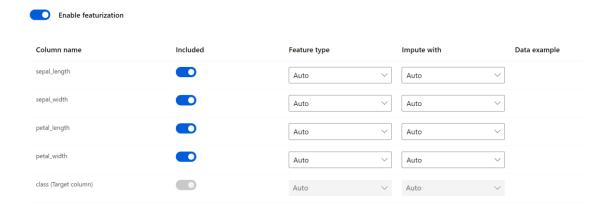
Azure Machine Learning

- For configurations, you can set
 - the primary metric,
 - block any algorithms from use (which is a good way as well to see all the considered algorithms), select exit criterion
 - validation type
 - and concurrency.
- Here are some common values



Azure Machine Learning

- For featurization, you can set
 - Feature selection
 - Specify feature type
 - And imputation method
- Here are some common values



- Click on save and submit the automated ML run!
- Once done you can find models here:

