Azure ML Workbench

Monday, October 22, 2018 10:17 AM

https://azure.microsoft.com/en-in/services/machine-learning-service/

https://portal.azure.com/

https://github.com/Azure/DevOps-For-AI-Apps/blob/master/Tutorial.md

https://docs.microsoft.com/en-us/azure/machine-learning/team-data-science-process/ci-cd-flask

https://docs.microsoft.com/en-us/azure/machine-learning/service/quickstart-get-started

https://docs.microsoft.com/en-us/azure/machine-learning/desktop-workbench/tutorial-classifying-iris-part-3

https://github.com/Azure/DevOps-For-AI-Apps/blob/master/Tutorial.md ===imp https://github.com/MicrosoftDocs/azure-docs/blob/master/articles/machine-learning/desktopworkbench/deployment-setup-configuration.md

BLOB storage:-

https://stmfgfohstprq51278013.blob.core.windows.net/blobstorage

dF95EH99IOhV0q3FeHiNfpk9TyxTkiSYRhvvEg1zWulqb0xijY5hW+6WckjRjqJ98fkonY9Nd2FZUs+1z3noHQ==

 $\underline{https://docs.microsoft.com/en-us/azure/storage/common/storage-import-export-data-from-blobs}$

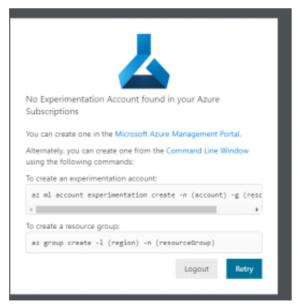
https://docs.microsoft.com/en-us/azure/storage/blobs/storage-quickstart-blobs-python

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https://docs.microsoft.com/en-us/azure/machine-learning/data-science-virtual-machine/dsvm-ml-data-science-tools https://docs.microsoft.com/en-us/azure/machine-learning/desktop-workbench/reference-python-package-overview https://docs.microsoft.com/en-us/azure/hdinsight/r-server/r-server-overview az ml env show -v

 $/model data/< subscription_id>/< resource_group_name>/< model_management_account_name>/< webservice \ name>///< pr$ model_id>-<model_name>-<model_version>/<identifier>/<year>/<month>/<day>/data.csv

 $\underline{https://stmfgfohstprq51278013.blob.core.windows.net/blobstorage}$



[10/22/2018 9:48 AM] Parag Gurjar: idemo-ppc.com

RG-MGFOHSTP-RQ512/8013

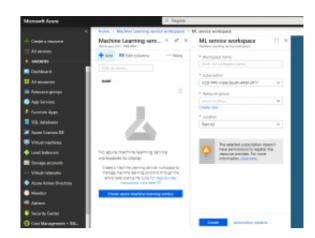
[10/22/2018 9:50 AM] Parag Gurjar: Model Registration with Azure BLOB Not able to register due to Az Storage

login issue.

Anshuma

Storage Account -> botmgfohstp38e6a

[10/22/2018 9:51 AM] Parag Gurjar:







Storage Account -> botmgfohstp38e6a

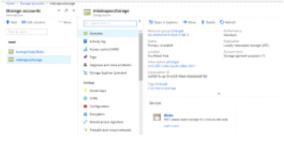
[10/22/2018 9:51 AM] Parag Gurjar:

https://github.com/Azure/DevOps-For-Al-Apps/blob/master/Tutorial.md

https://docs.microsoft.com/en-us/azure/machine-learning/team-data-science-process/ci-cd-flask

Machine learning model management





Machine Learning Compute

In order to deploy and manage models in production, you need to create a machine learning compute environment.

First, set up a virtual environment - you only need to do this once for your subscription:

1. In the Azure portal, click the Cloud Shell button on the menu in the upper-right of the Azure portal.

2. In Cloud Shell, create a virtual environment:

virtualenv -p /usr/bin/python3 <my-project-path>

3. Add the following lines to ~/.bashrc:

export FATH="<my-project-path>/bin":\$PATH export FYTHOMPATH="<my-project-path>/bin"

4. Source bashro

source ~/.bashrc

5. Install Azure CU in the virtual environment:

<my-project-path>/bin/pip install azure-cli

6. Install Azure ML CLI also:

<my-project-path>/bin/pip install azure-cli-ml

After you have set up the virtual environment once, use the following steps every time you need to set up and configure a compute environment for deploying and managing models:

> from azure.storage.blobimport BlockBlobService from azure.storage.blob.modelsimport PublicAccess import glob import os ACCOUNT_NAME = "<your</pre> blob storage account name>" ACCOUNT_KEY = "<account key>" CONTAINER_NAME = "<container name>" blob_service = ${\tt BlockBlobService}(account_name={\tt ACCOUNT_NAME},$ account_key=ACCOUNT_KEY)## Create a new container if necessary, or use an existing blob_service.create_container(CONTAINER_NAME, fail_on_exist=False, public_access=PublicAccess.Container) # df is a pandas DataFrame df.to_csv('mydata.csv',



sep='\t', index=False) # Export the
mydata.csv file to Blob storage. for name
in glob.iglob('mydata.csv'):
blob_service.create_blob_from_path(CONTAINER_NA
ME, 'single_file.csv', name)

From https://docs.microsoft.com/lt-lt/azure/machine-learning/desktop-workbench/how-to-read-write-files