3. Data Mining with Azure ML Studio

3.1 Getting Started with Azure Machine Learning Studio

In this section we will be familiarizing ourselves with Azure Machine Learning ("ML") Studio. We will create a dedicated storage account for our experiment and a workspace within our account, learn how to access the workspace from the Azure Portal, and finally create our first experiment. In order to get started and begin your first exercise with Azure ML, you must sign up for a free trial. You can register at: http://azure.microsoft.com/en-us/pricing/free-trial/

3.1.1 Exercise: Creating an Azure Machine Learning Studio Workspace

Once you have a dedicated Azure storage account, you can create an Azure ML Studio workspace.

Create a new Azure ML Studio workspace by selecting:
+New > Data Services > Machine Learning > Quick Create (Figure: 3.1, 3.2).



Figure 3.1: Create a new workspace



Figure 3.2: Create a new workspace

- 2. In the Workspace Name box, assign a globally unique name.
- 3. In the Workspace Owner box, input the administrative email for your Azure account, preferrably a hotmail account.
- 4. In the Storage Account dropdown, select "Create a new storage account".
- 5. In the **New Storage Account Name**, give your blob storage a globally unique name.

Click the check mark once the credentials have been populated to send off a workspace request to Azure. The workspace will take at least two minutes to setup. Accidently deleting the blob storage associated with your Azure ML workspace will corrupt the workspace and render it unusable.

You can invite others to collaborate in your workspace by adding them as users to the account Tip under Settings. You can also copy and paste experiments across workspaces.

3.1.2 Exercise: Accessing your Azure Machine Learning Workspace

You may now access your Azure ML workspace.

1. Within the Azure Portal, select Machine Learning (Figure: 3.3).

Microsoft Azure 🗸 🗘 phuchduong@datasciencedojo.com					
CDN	all items				
	NAME	TYPE	STATUS	SUBSCRIPTION	LOCATION
	dojođemo 🔿	Storage Account	✔ Online	DSDojo - Production	West US
	dojodeployedwebservices	Storage Account	V Online	DSDojo - Production	South Central US
	msasatraining	Storage Account	V Online	DSDojo - Production	West Europe
	politicalcontribution	Storage Account	🗸 Online	DSDojo - Production	West US
	politics	Storage Account	V Online	DSDojo - Production	West US
	dojodb	SQL Database	V Online	DSDojo - Production	West Europe
	ProductionDojoDemoPage	SQL Database	🗸 Online	DSDojo - Production	West US
	DojoPi	Service Bus Namesp	🗸 Active	DSDojo - Production	West US
	DojoDemoSpace	Service Bus Namesp	🗸 Active	DSDojo - Production	West US
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	EDC	ML Workspace	V Online	DSDojo - Production	South Central US
	CorporateSharedWorkspace	ML Workspace	🗸 Online	DSDojo - Production	South Central US
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New	MANAGE ACCESS MANAGE DOMAIN	DELETE			0

Figure 3.3: Access your machine learning workspace

- 2. Select the workspace that you just created in Exercise: Creating an Azure Machine Learning Studio Workspace.
- 3. Select "Access your Workspace" (Figure: 3.4) A new window will appear.



Figure 3.4: Access your workspace