

Lab 38

Classroom Activity: Getting started with Azure ML Notebook

What are Azure ML Notebooks?

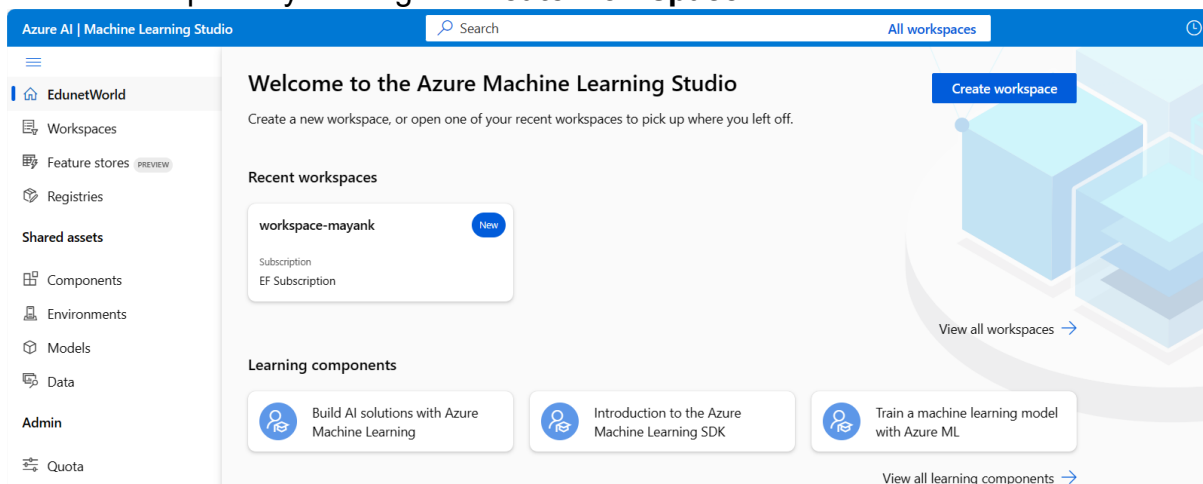
- Azure ML Notebooks are a cloud-based, interactive development environment for machine learning and data science.
- They are based on Jupyter Notebooks, which allow you to create and share documents that contain live code, equations, visualizations, and narrative text.
- Azure ML Notebooks are fully integrated with Azure Machine Learning, enabling seamless collaboration and access to cloud resources.

Key Features

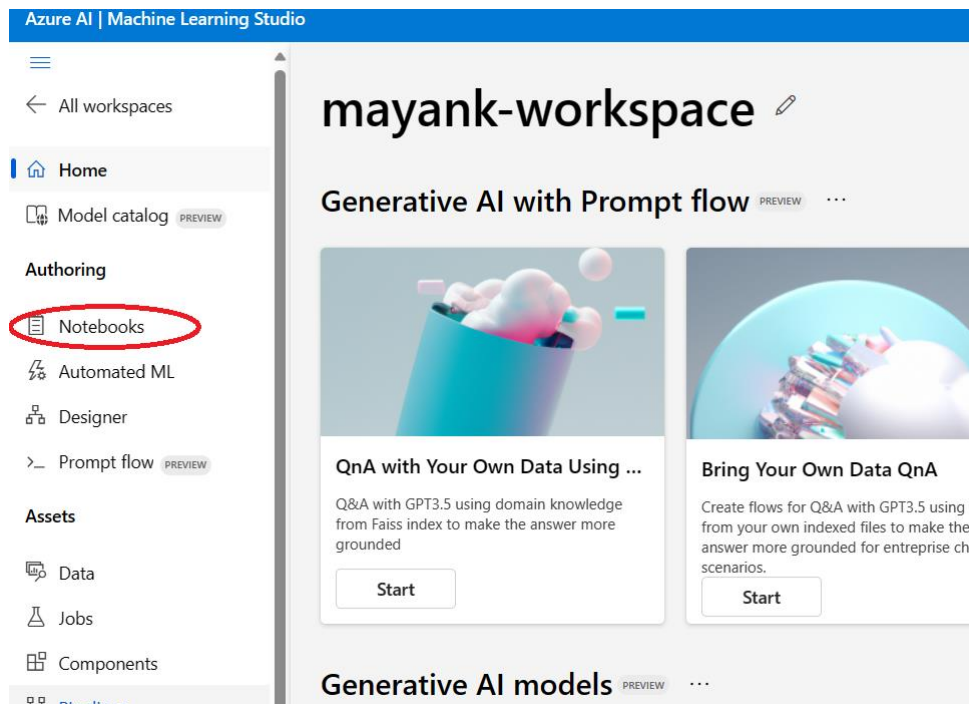
- **Jupyter Environment:** Enjoy the flexibility and power of Jupyter Notebooks.
- **Preinstalled Libraries:** Azure ML Notebooks come with popular data science libraries preinstalled.
- **Access to Azure Resources:** Seamlessly connect to Azure data storage, machine learning experiments, and more.

Steps

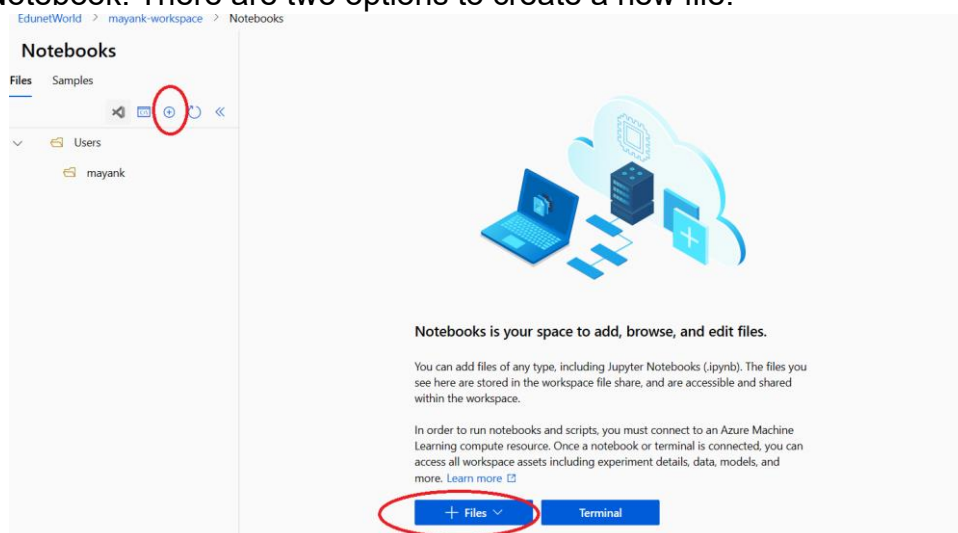
- **Step 1: Access Azure ML Studio:** Log in ml.azure.com.
- **Step 2: Create a New Workspace:** Create an Azure Machine Learning workspace by clicking on **Create workspace**.



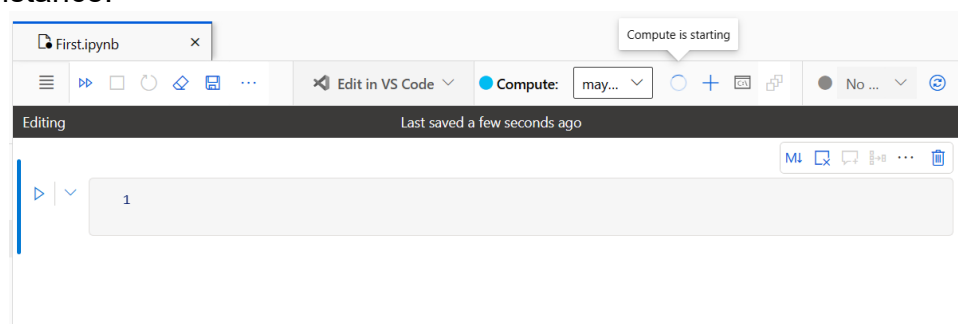
- **Step 3: Open Azure ML Notebooks:** In your workspace, navigate to Azure ML Notebooks.

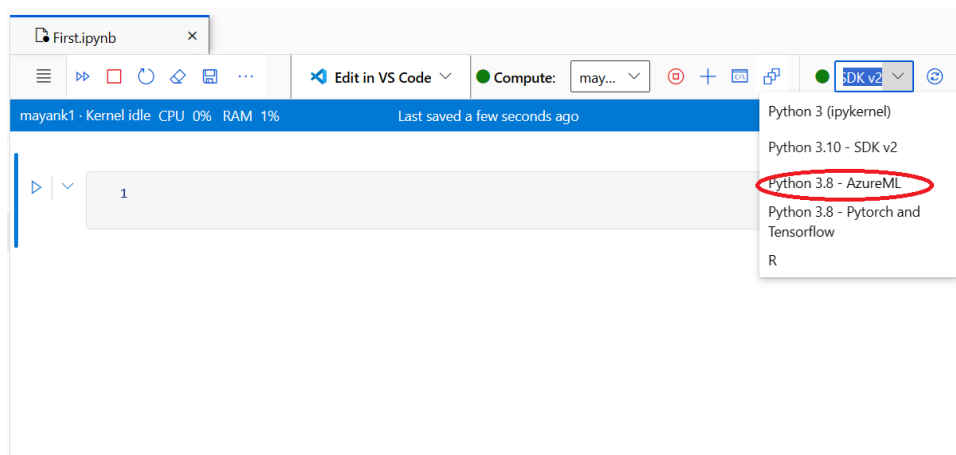


- **Step 4: Create a New Notebook:** Start creating your first Azure ML Notebook. There are two options to create a new file.



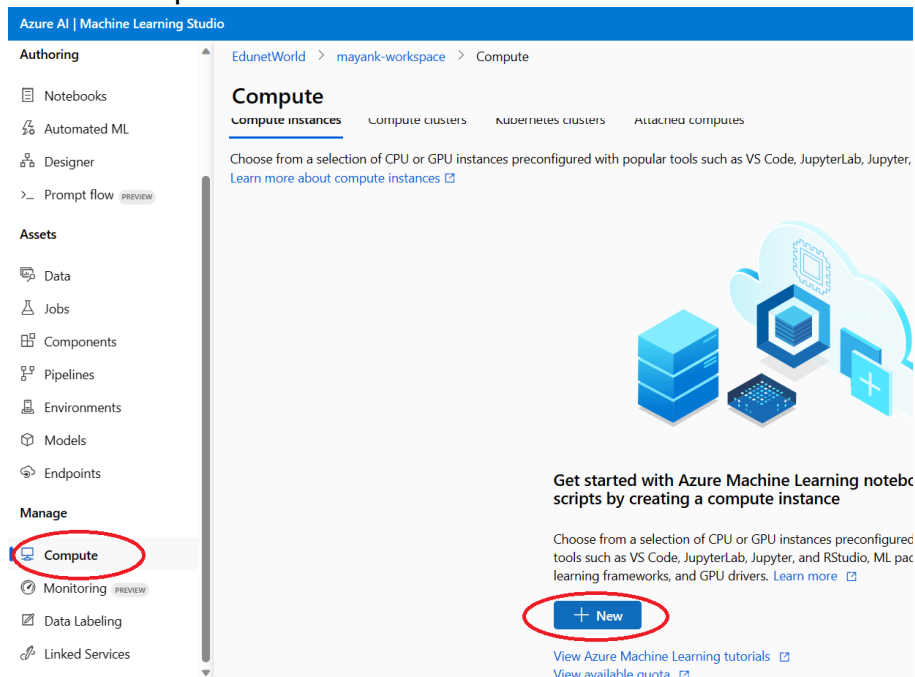
- **Step 5: Select a Kernel and Compute instance:** Choose a programming language (e.g., Python) and kernel for your notebook and a running compute instance.





- **Step 6: Start developing your notebook.** You can also upload an existing notebook and dataset.

To create a compute instance.
Select Compute.



Select appropriate details. For our implementation, we will use a Memory optimized CPU : **Standard_E4ds_v4 4 cores, 32GB RAM, 150GB storage**

Click on **Create**.
Now, provision will take a couple of minutes.