Exercise

Train and evaluate a regression model



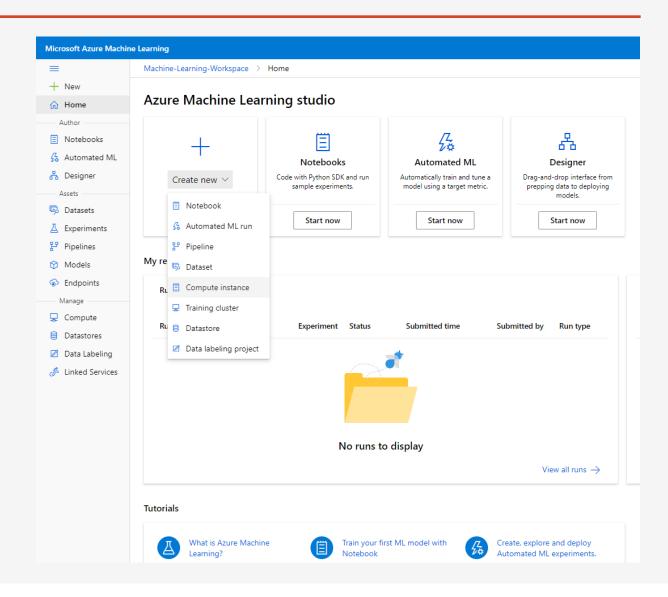
This exercise is based on the AI-900 exam material.

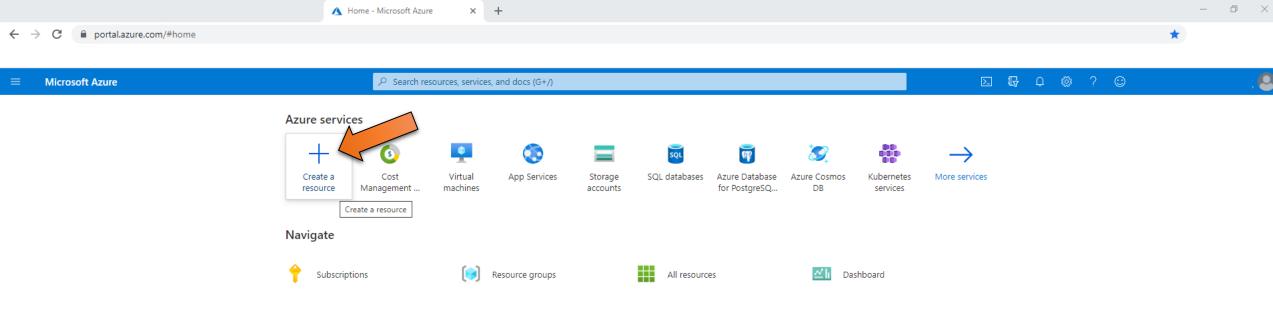


Train and evaluate a regression model

Calculating a regression line for a simple binomial (two-variable) function from first principles is possible but involves some mathematical effort. When you consider a real-world dataset in which x is not a single feature value such as temperature, but a vector of multiple variables such as temperature, day of week, month, rainfall, and so on; the calculations become more complex.

For this reason, data scientists generally use specialized machine learning frameworks to perform model training and evaluation. Such frameworks encapsulate common algorithms and provide useful functions for preparing data, fitting data to a model, and calculating model evaluation metrics.









Microsoft Learn 🗗

Learn Azure with free online training from Microsoft



Azure Monitor

Monitor your apps and infrastructure



Security Center

Secure your apps and infrastructure



Cost Management

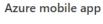
Analyze and optimize your cloud spend for free

Useful links

Technical Documentation ☐ Azure Migration Tools

Azure Services ☐ Find an Azure expert

Recent Azure Updates ♂
Quickstart Center





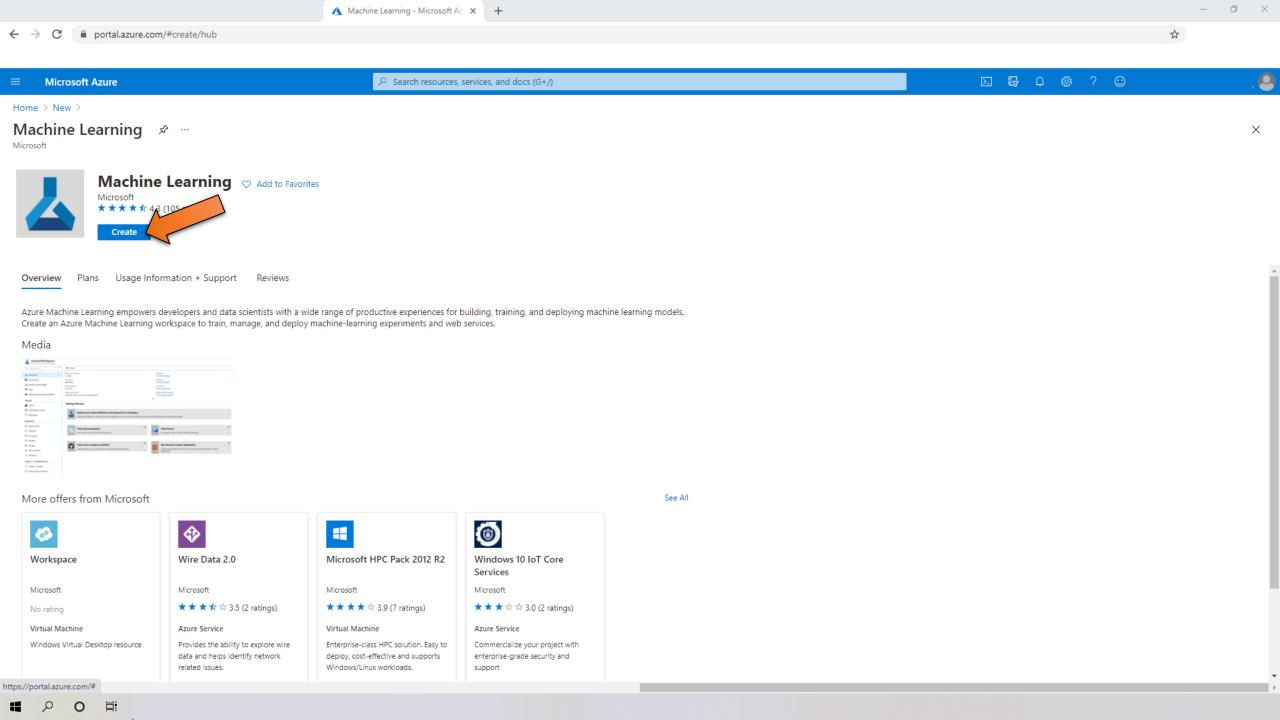


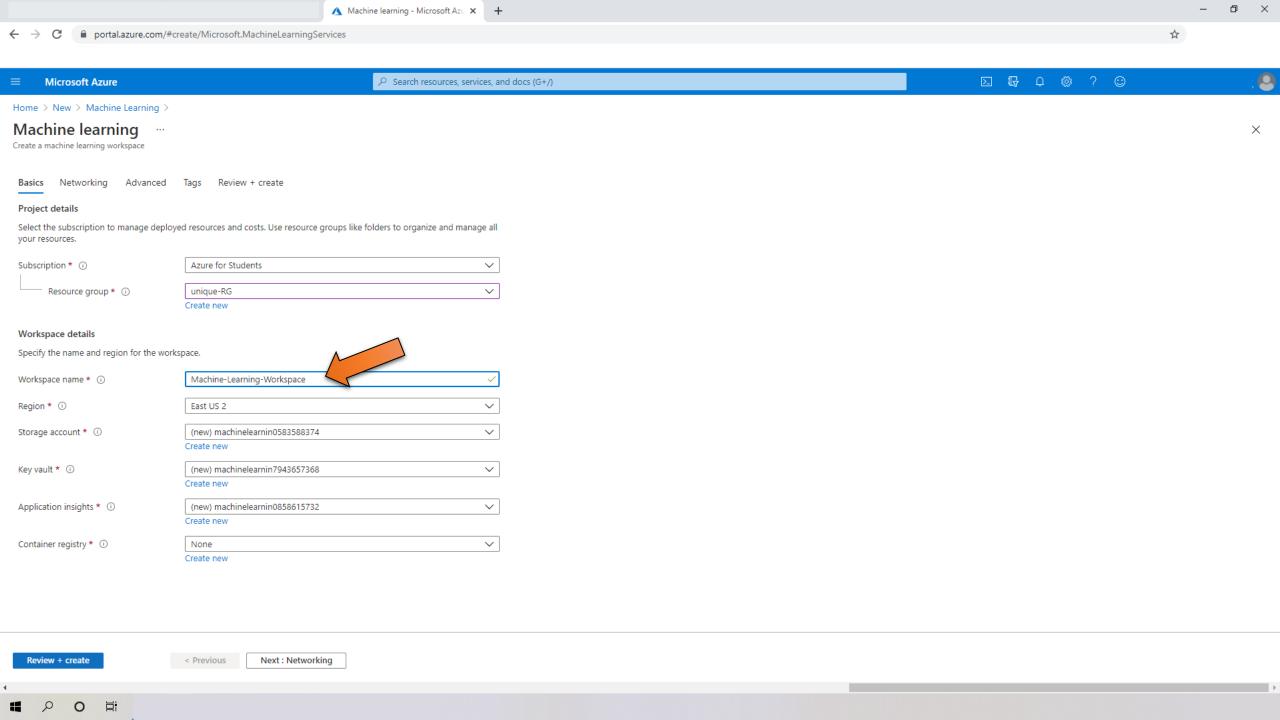


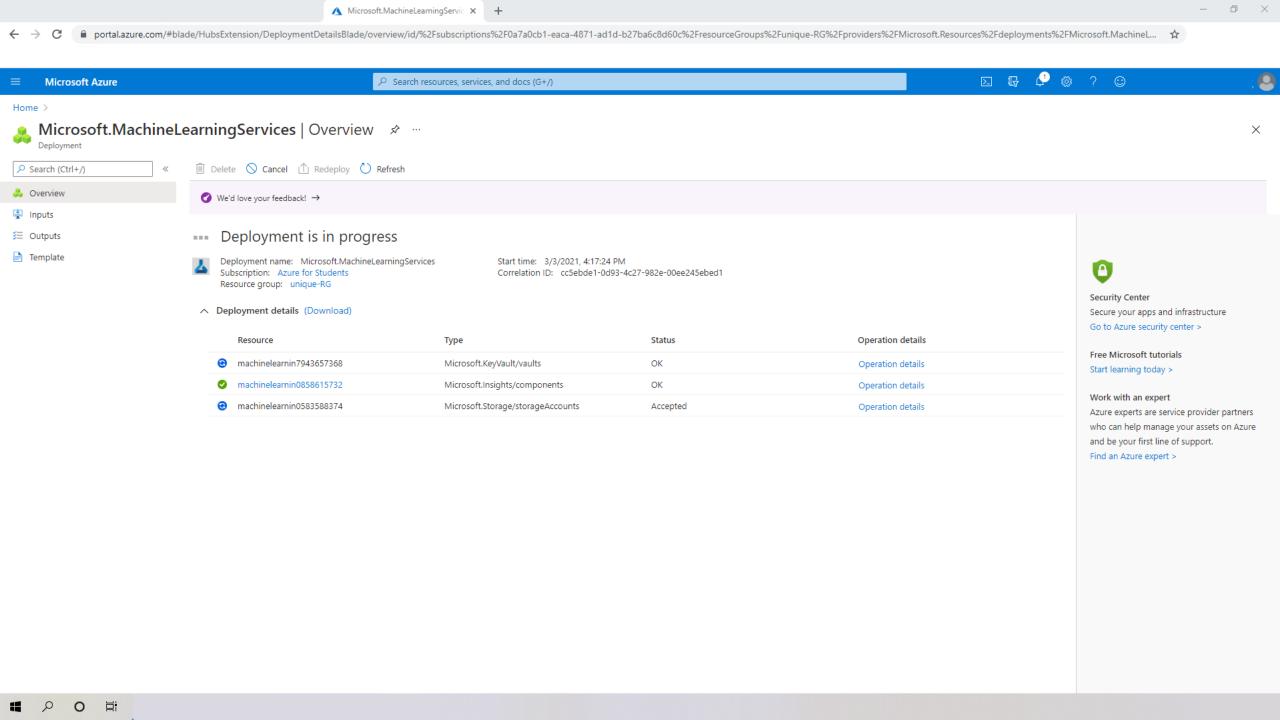


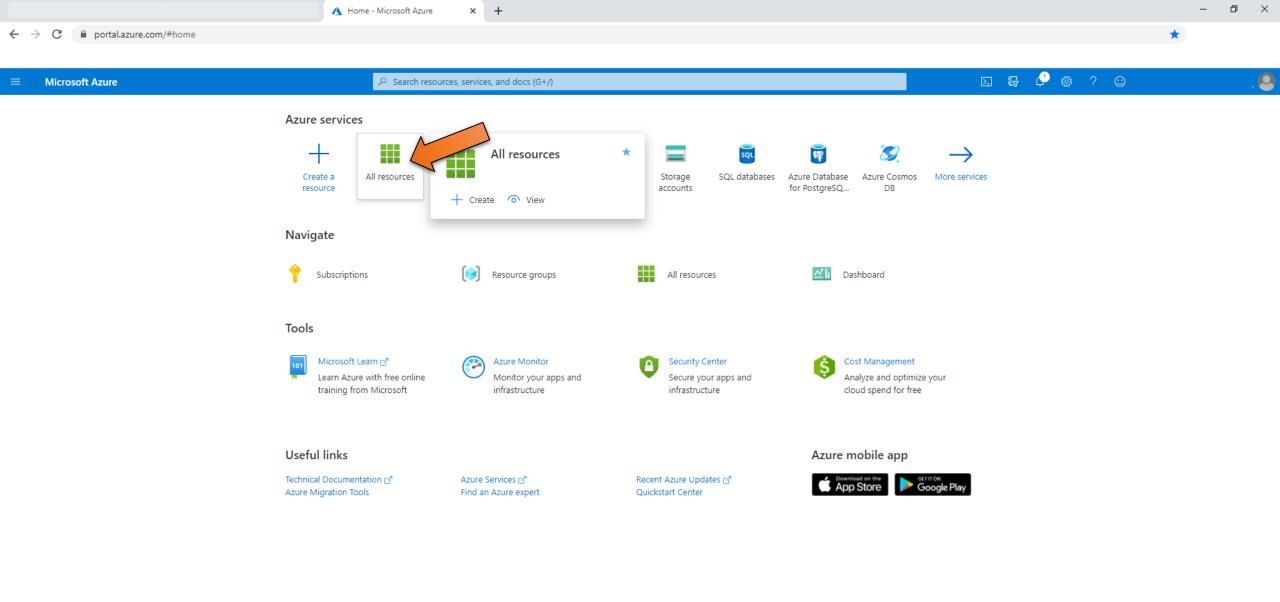






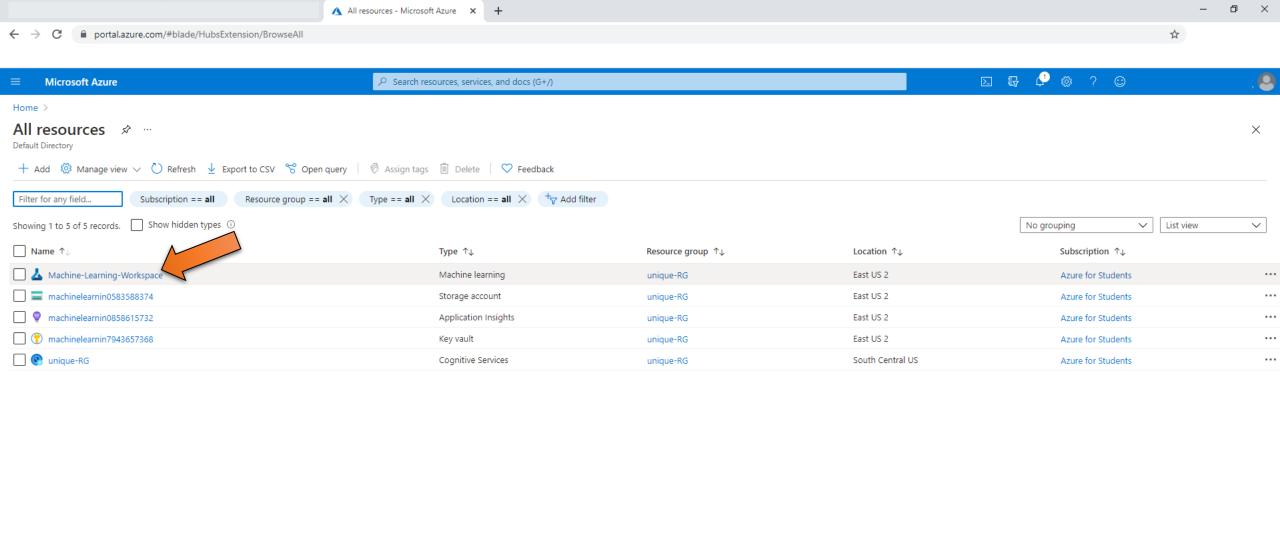




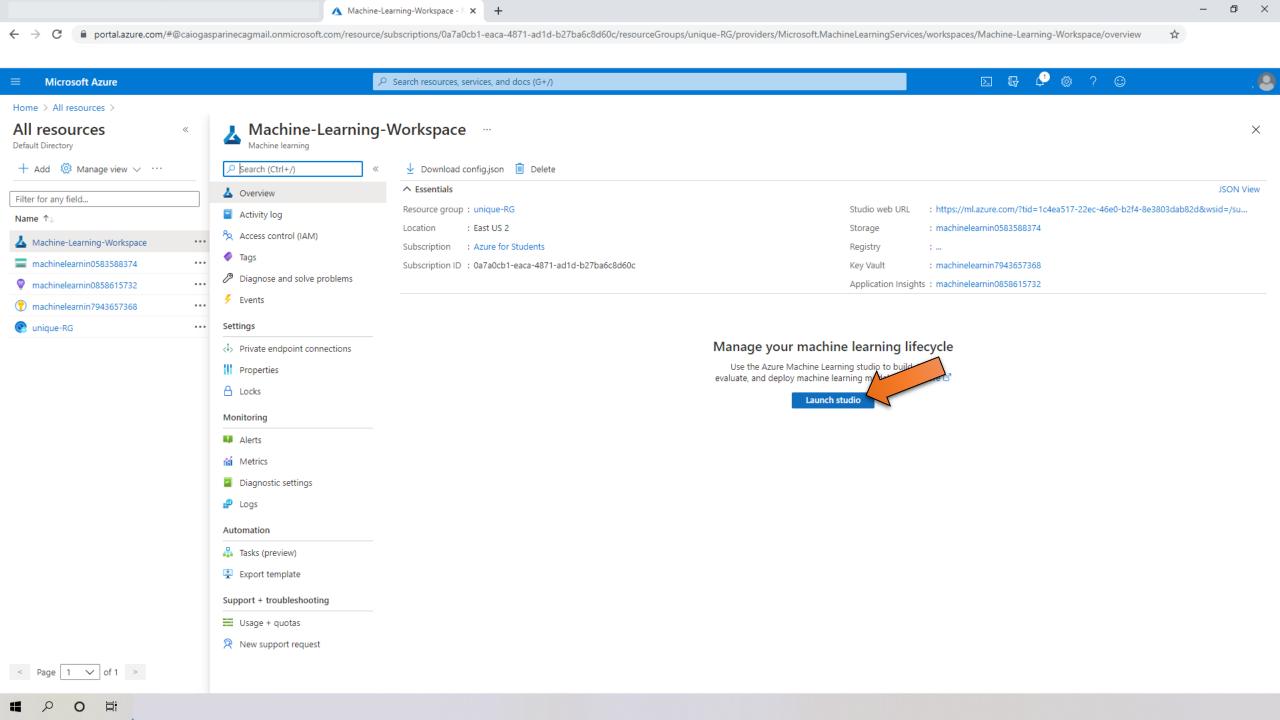


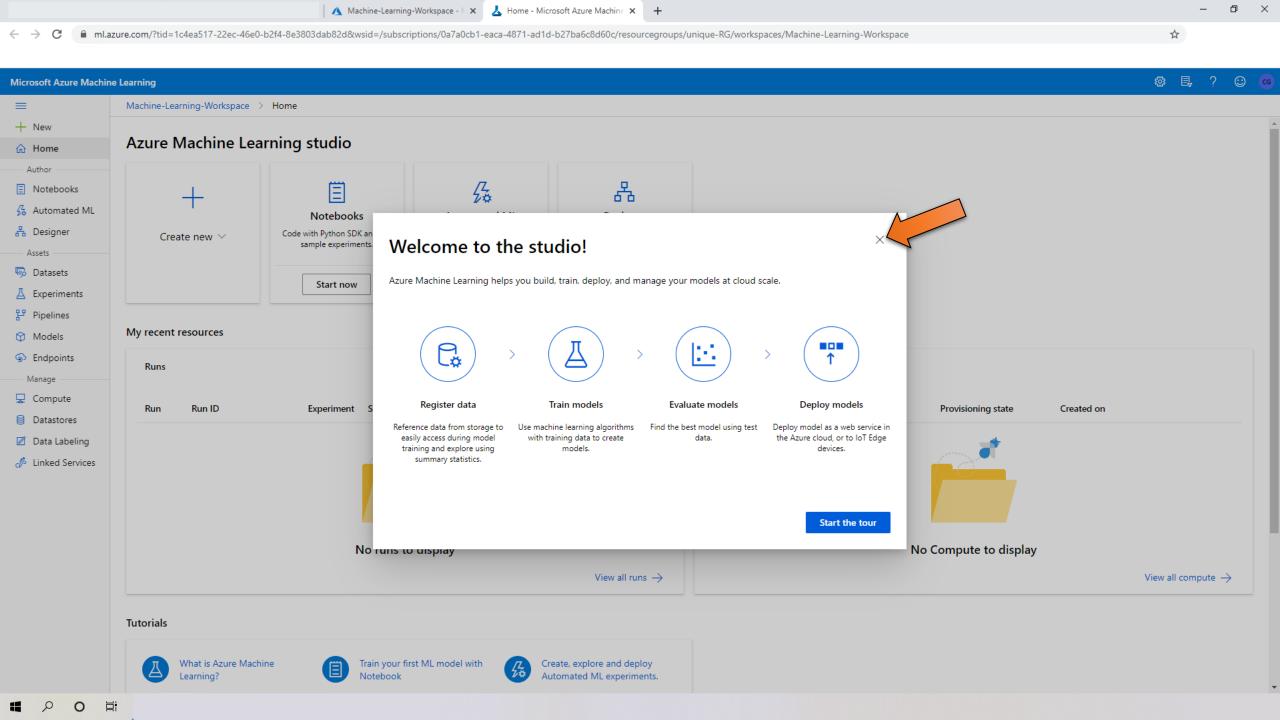
0

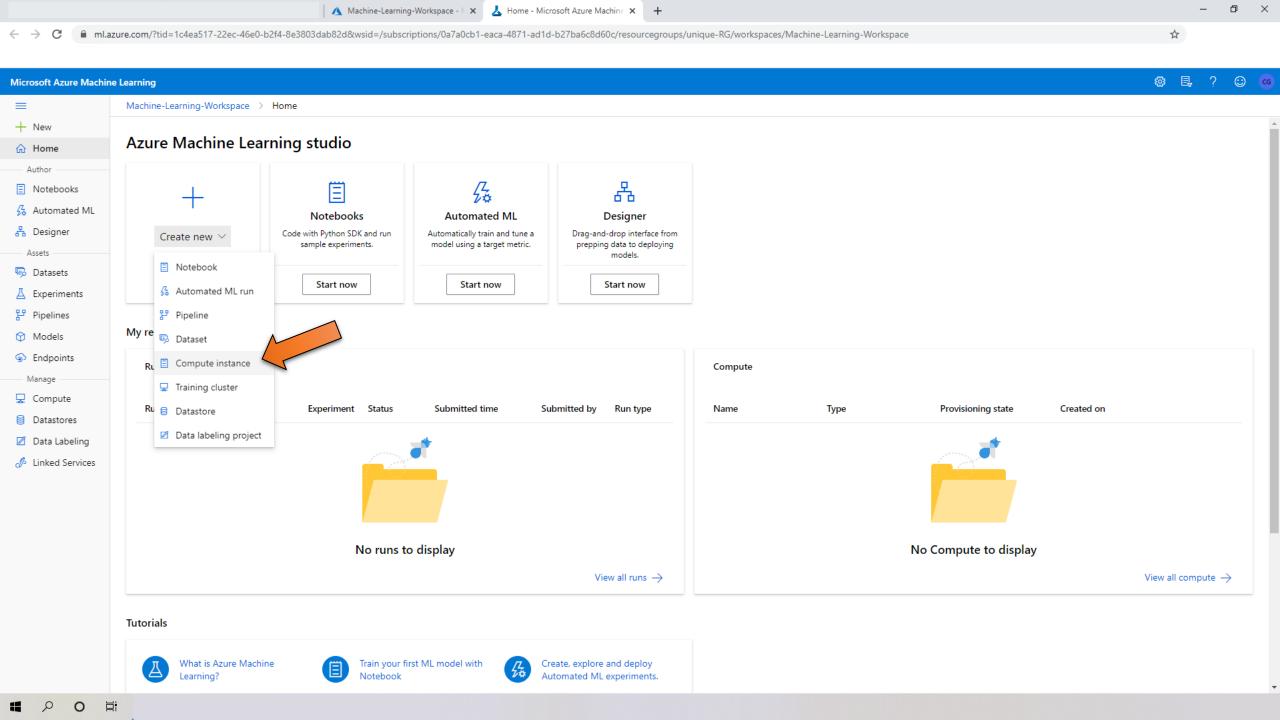
≓ŧ

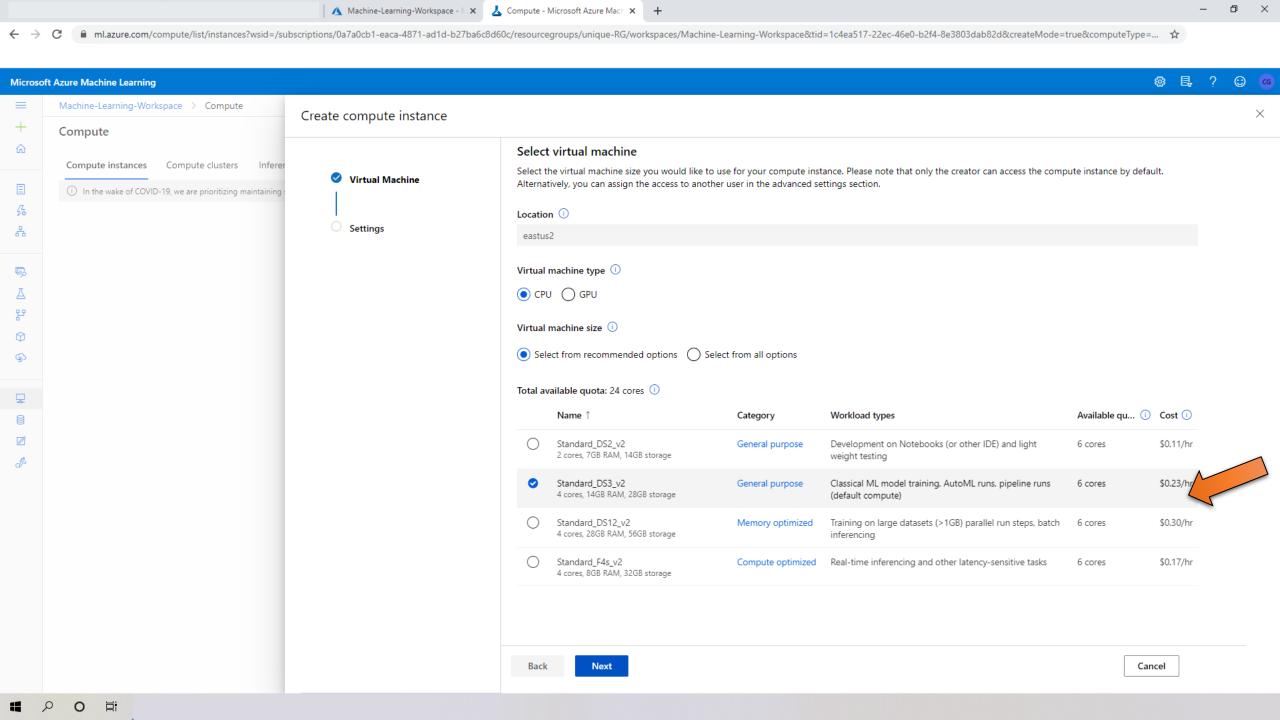


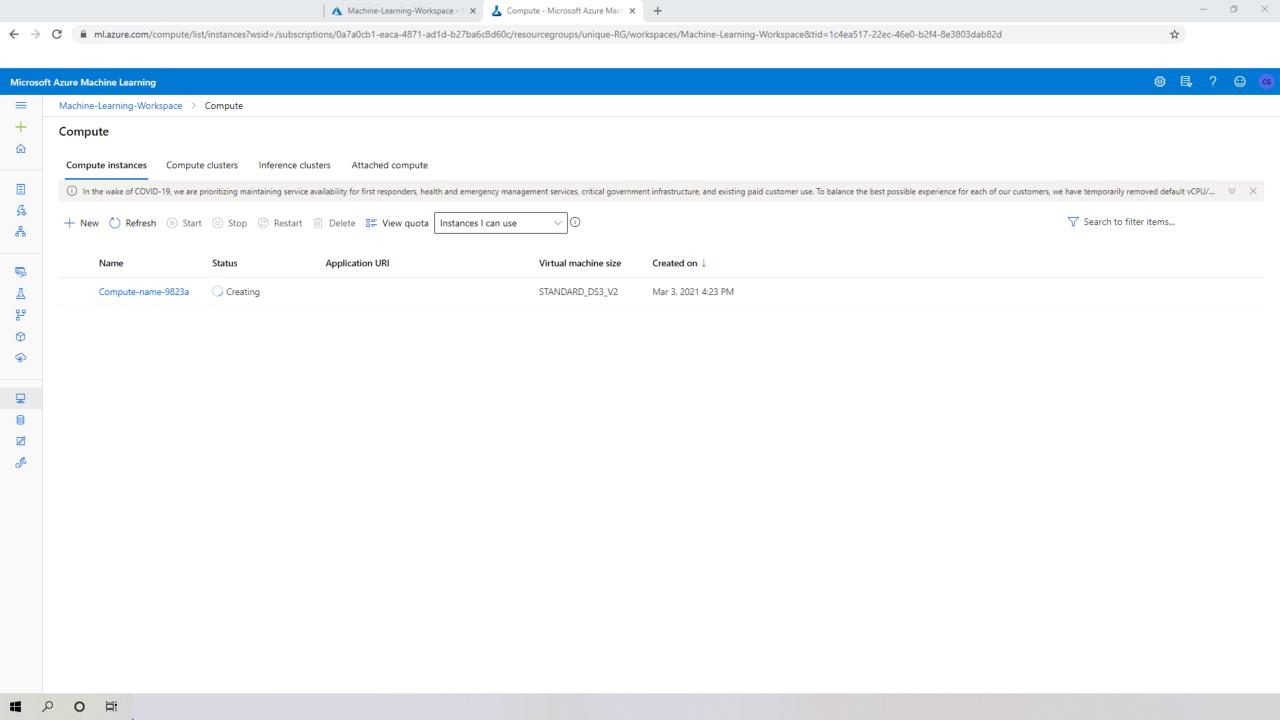


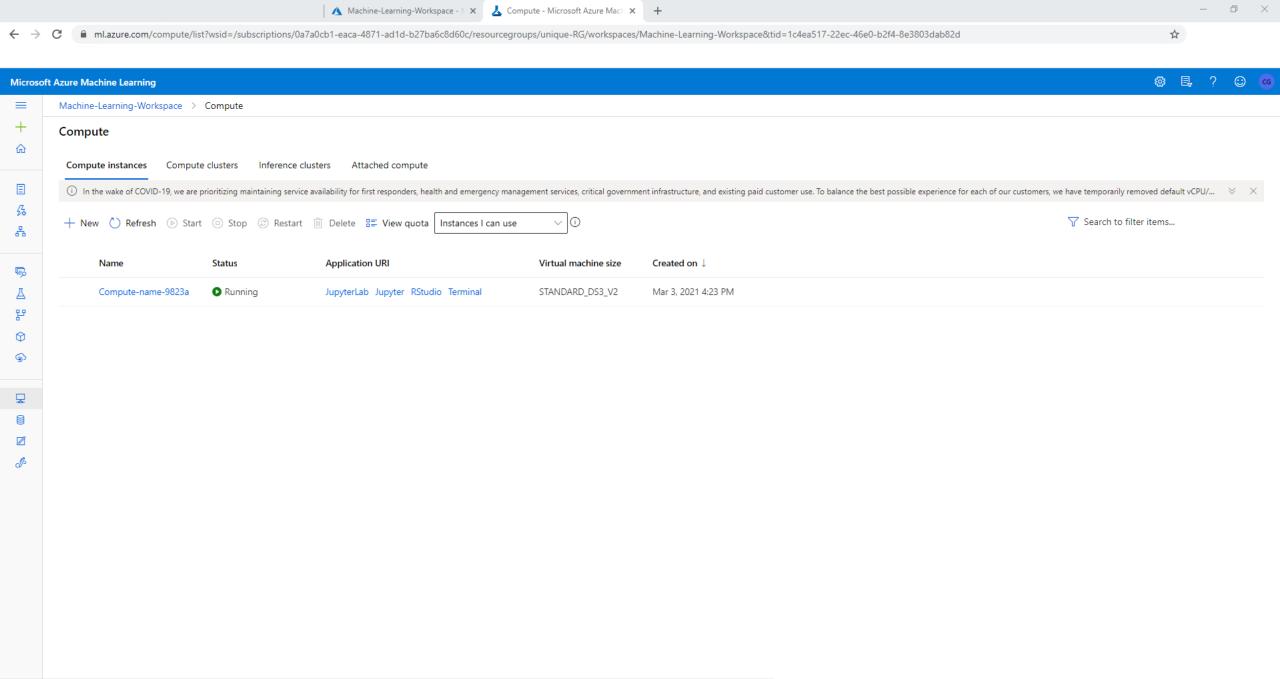






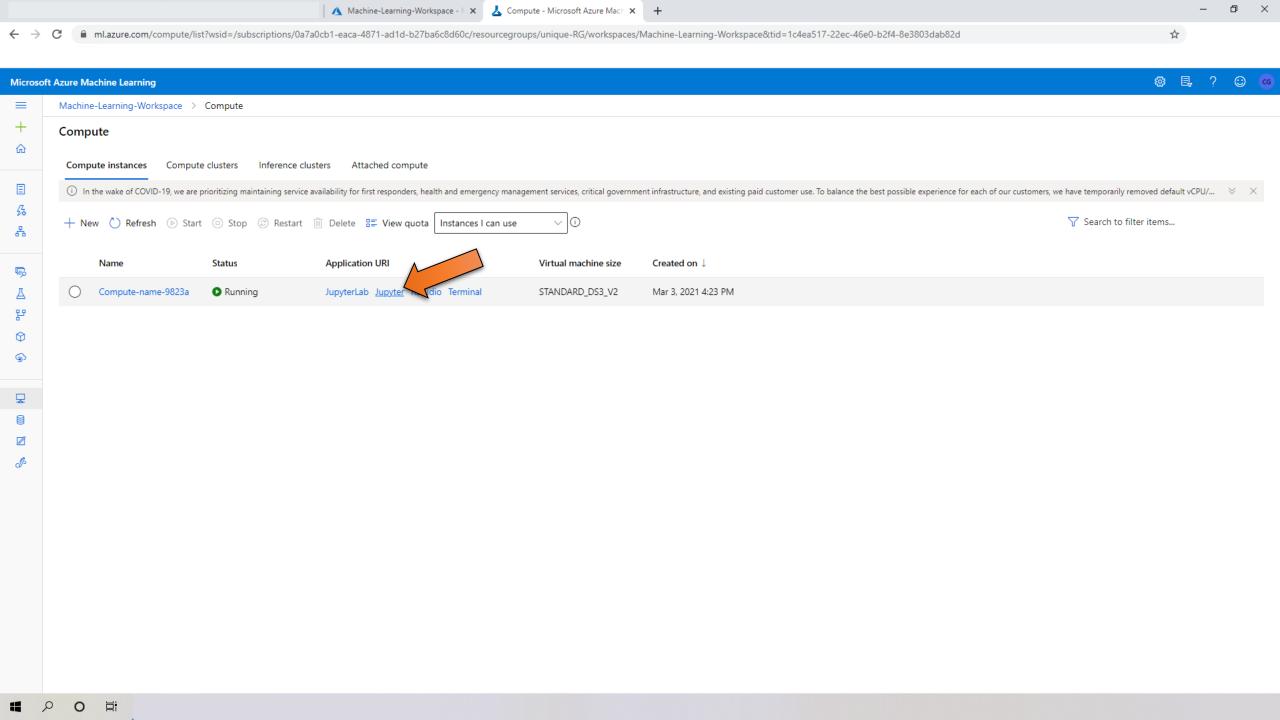


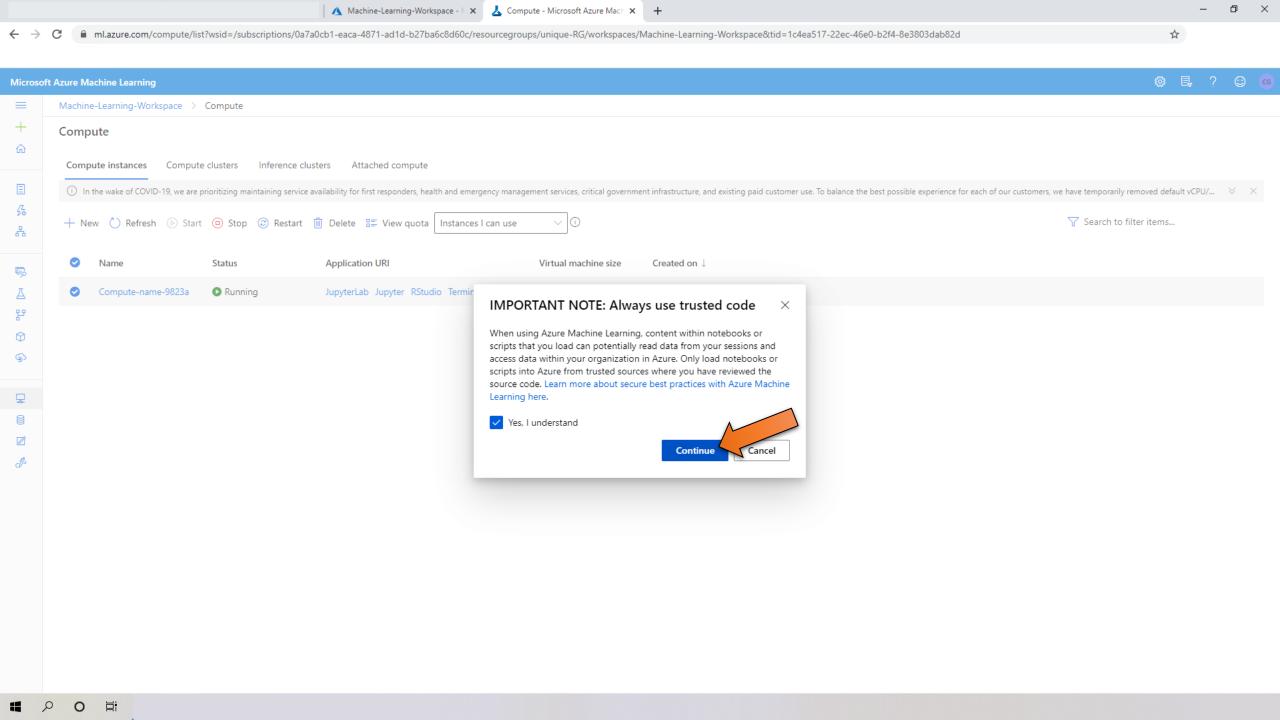


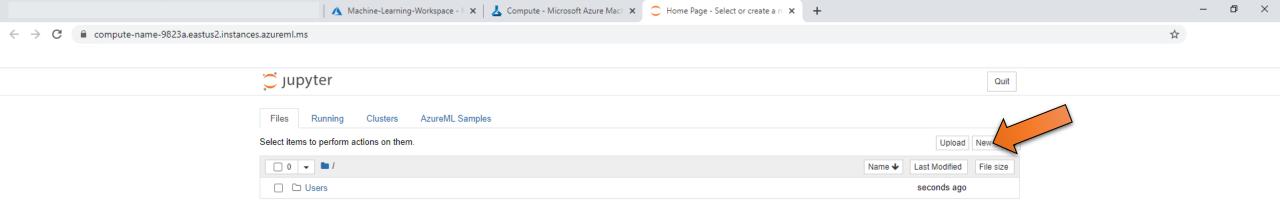


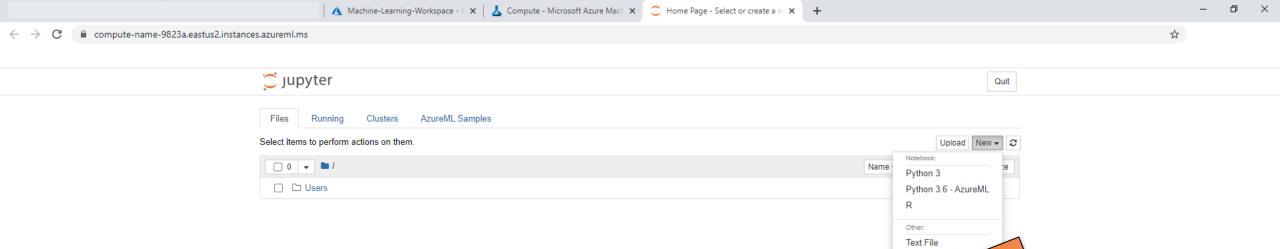
0

Ħ









Folder Terminal

O 声

💢 jupyter

compute-name-9823a.eastus2.instances.azureml.ms/terminals/1

To run a command as administrator (user "root"), use "sudo <command>". See "man sudo root" for details. azureuser@compute-name-9823a:/mnt/batch/tasks/shared/LS_root/mounts/clusters/compute-name-9823a/code\$ azureuser@compute-name-9823a:/mnt/batch/tasks/shared/LS_root/mounts/clusters/compute-name-9823a/code\$ azureuser@compute-name-9823a:/mnt/batch/tasks/shared/LS root/mounts/clusters/compute-name-9823a/code\$ azureuser@compute-name-9823a:/mnt/batch/tasks/shared/LS_root/mounts/clusters/compute-name-9823a/code\$ azureuser@compute-name-9823a:/mnt/batch/tasks/shared/LS root/mounts/clusters/compute-name-9823a/code\$ cd Users azureuser@compute-name-9823a:/mnt/batch/tasks/shared/LS root/mounts/clusters/compute-name-9823a/code/Users\$ qit clone https cd Users git clone https://github.com/caiogasparine/ml-basics



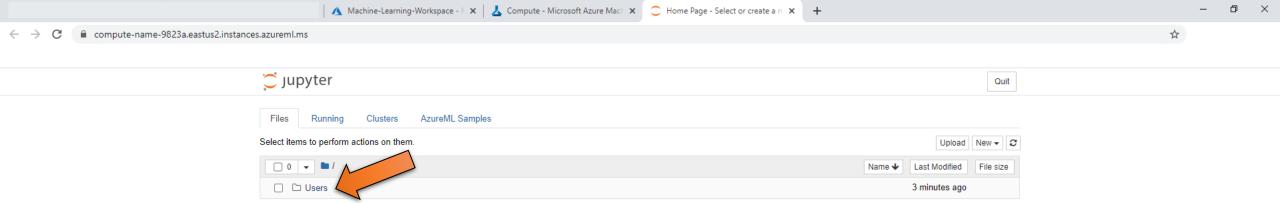
```
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo root" for details.
azureuser@compute-name-9823a:/mnt/batch/tasks/shared/LS_root/mounts/clusters/compute-name-9823a/code$
azureuser@compute-name-9823a:/mnt/batch/tasks/shared/LS_root/mounts/clusters/compute-name-9823a/code$
azureuser@compute-name-9823a:/mnt/batch/tasks/shared/LS root/mounts/clusters/compute-name-9823a/code$
azureuser@compute-name-9823a:/mnt/batch/tasks/shared/LS_root/mounts/clusters/compute-name-9823a/code$
Cloning into 'ml-basics'...
remote: Enumerating objects: 57, done.
remote: Counting objects: 100% (57/57), done.
remote: Compressing objects: 100% (50/50), done.
remote: Total 1943 (delta 27), reused 16 (delta 7), pack-reused 1886
Receiving objects: 100% (1943/1943), 8.28 MiB | 4.33 MiB/s, done.
Resolving deltas: 100% (726/726), done.
Updating files: 100% (1641/1641), done.
azureuser@compute-name-9823a:/mnt/batch/tasks/shared/LS root/mounts/clusters/compute-name-9823a/code/Users$
```



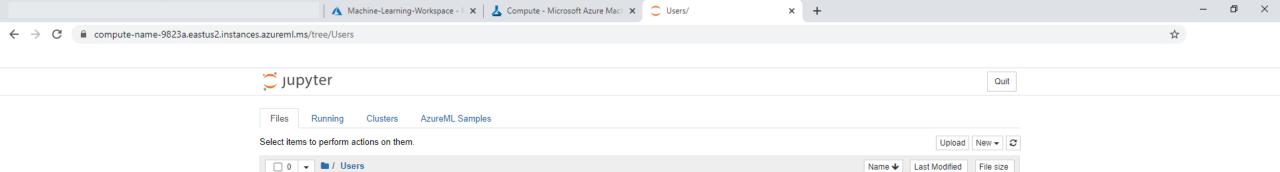








■ 夕 0 財



seconds ago

2 minutes ago

■ 夕 ○ 財

☐ ☐ ml-basics

