# Import azureml-sdk Helping you from Scripting to Production







# "Azure ML can help me track my ML projects progress"

# "Azure ML makes it simpler to leverage cloud compute resources"

"I don't have to be a containers expert to deploy my models using Azure ML"

#### Import azureml-sdk

The Platform that can help you from Scripting to Production



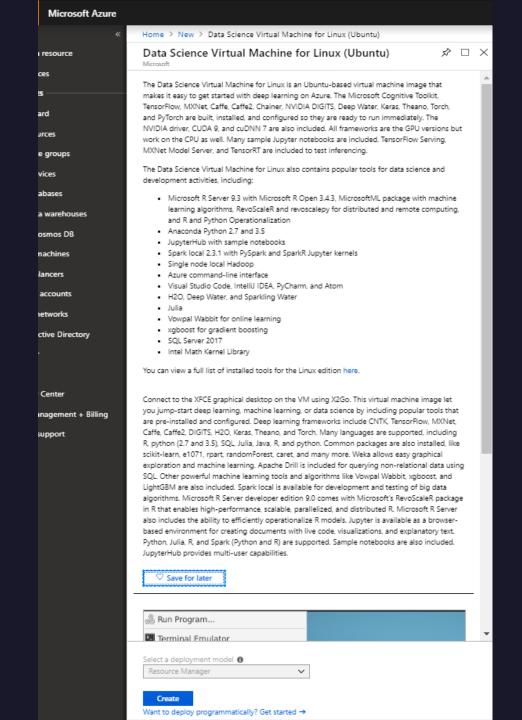
**Build it Yourself** 

https://aka.ms/azureml-sdk-fashion

# Azure Passes: visit the site below



### Create: Data Science Virtual Machine for Linux(Ubuntu)



### Azure Al

Al apps & agents



Azure Bot Service
Azure Cognitive Services

**Machine learning** 



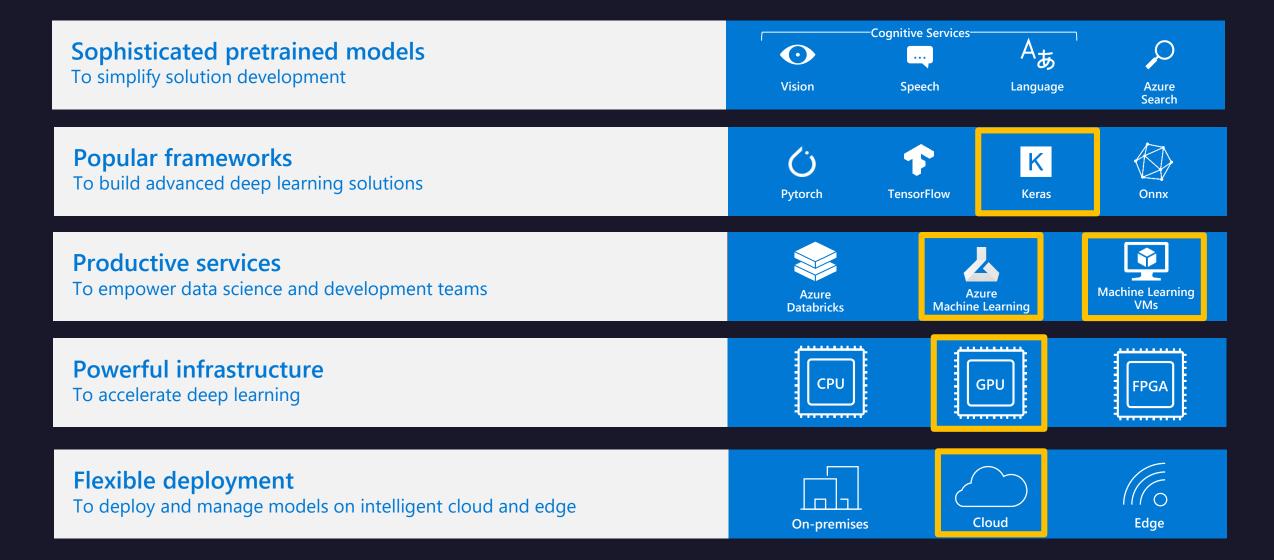
Azure Databricks
Azure Machine Learning

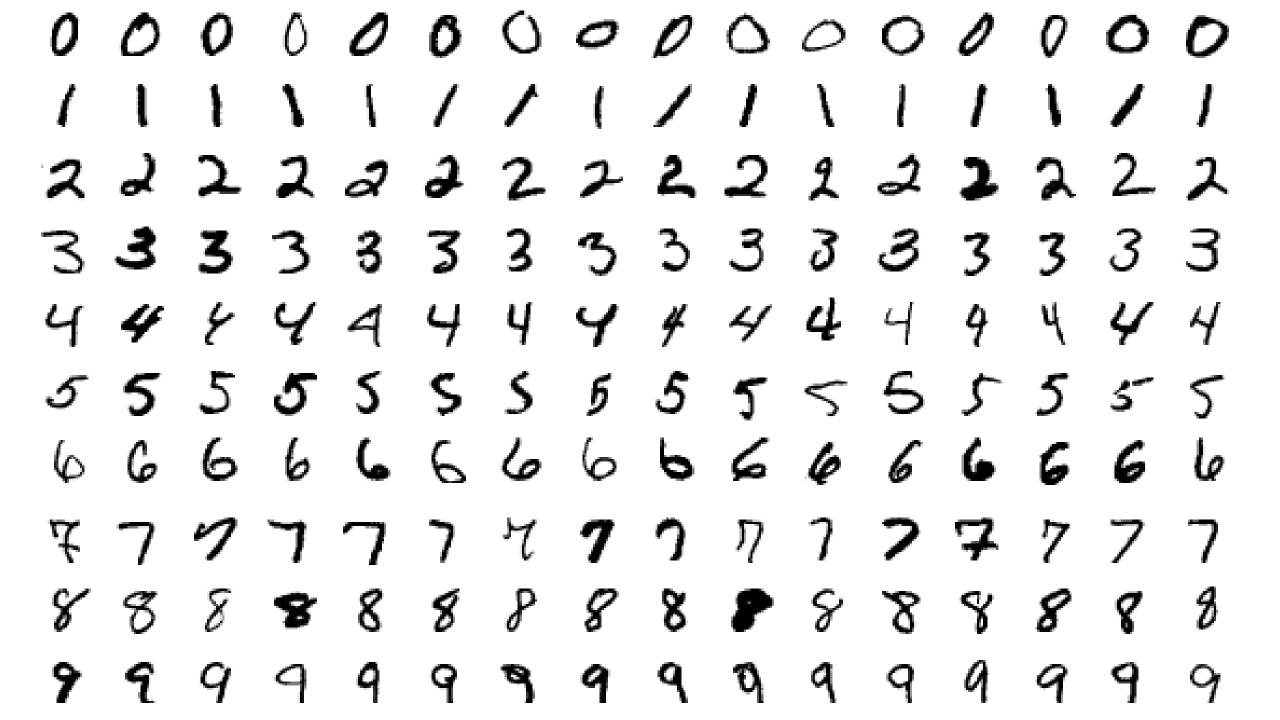
Knowledge mining



Azure Cognitive Search

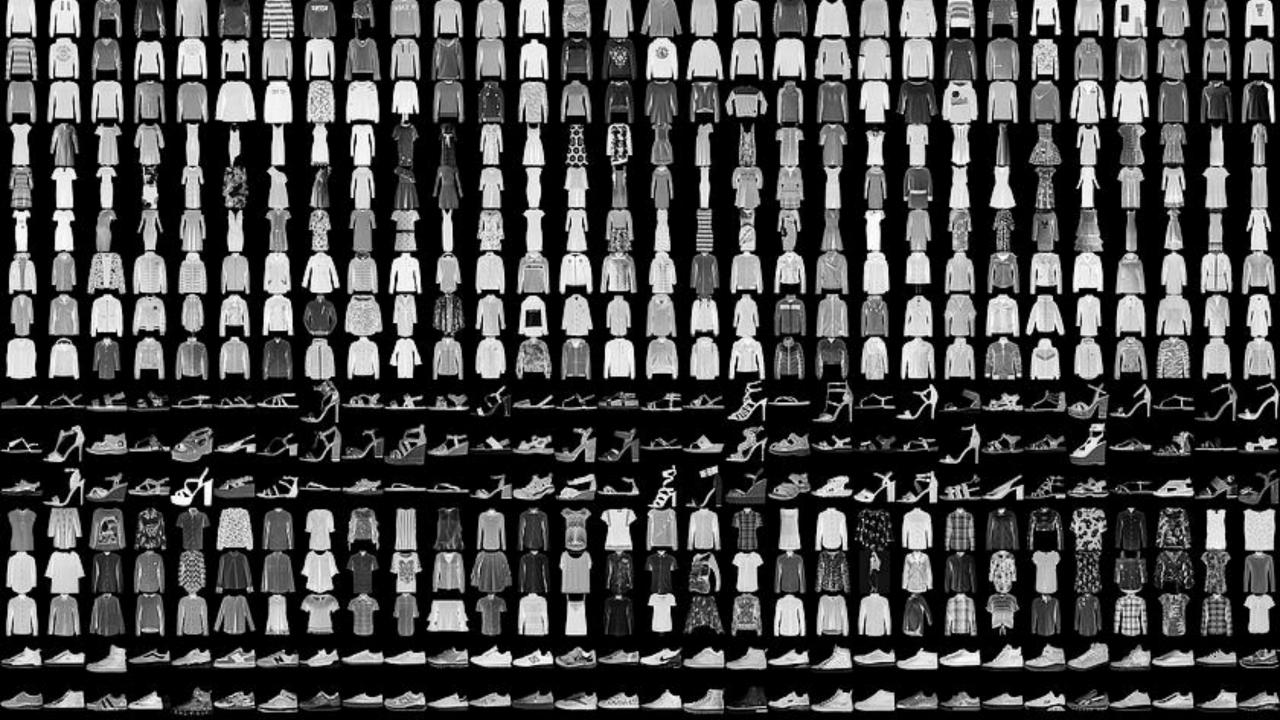
### Machine Learning on Azure



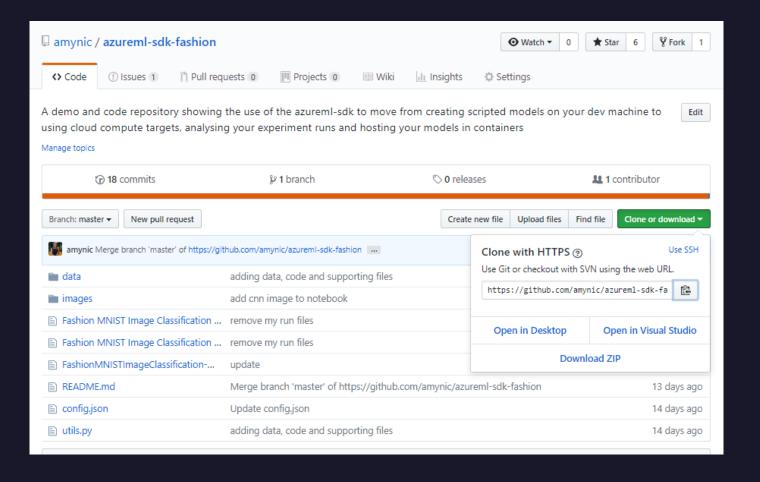


### Zalando Fashion-MNIST Dataset

https://github.com/zalandoresearch/fashion-mnist

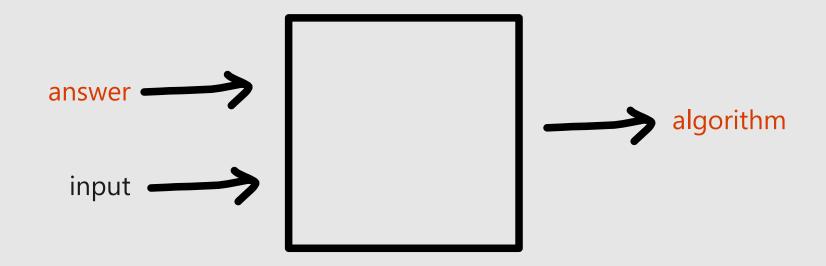


## Git Clone Azure ML workshop repo



https://aka.ms/azureml-sdk-fashion

### Machine Learning ...



### Machine Learning ...

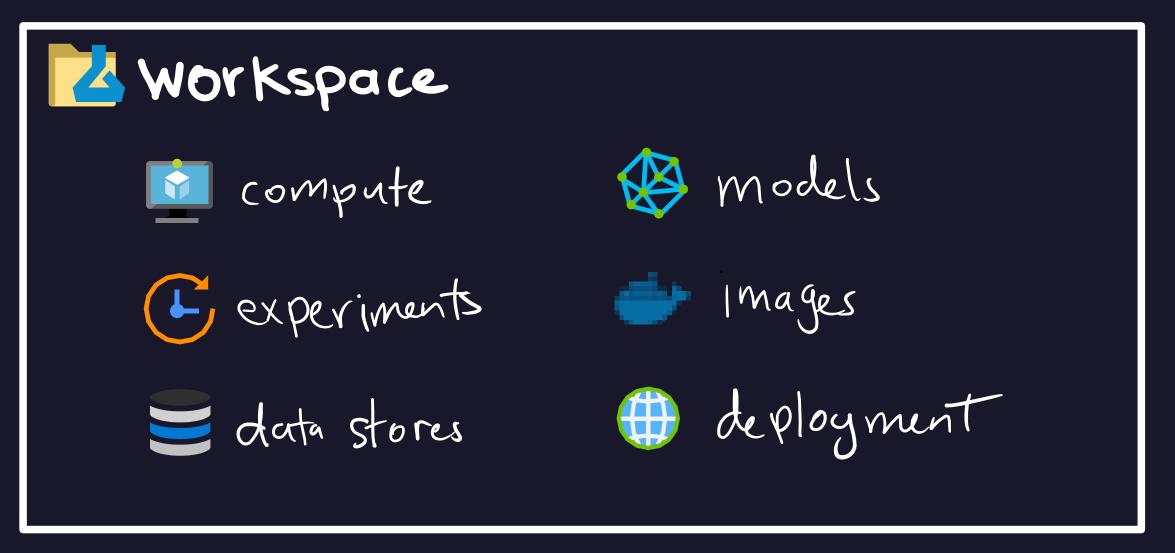


### Science ...

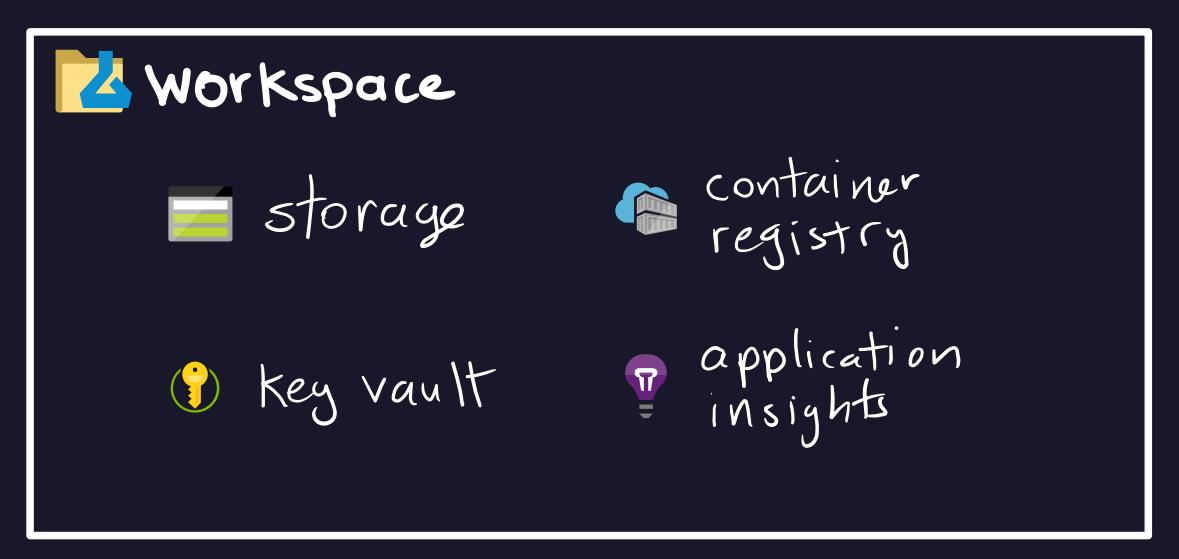
```
question
             Test
research
             analy re
              report
hypothesis
```

## Science ... question research analy re hypothesis

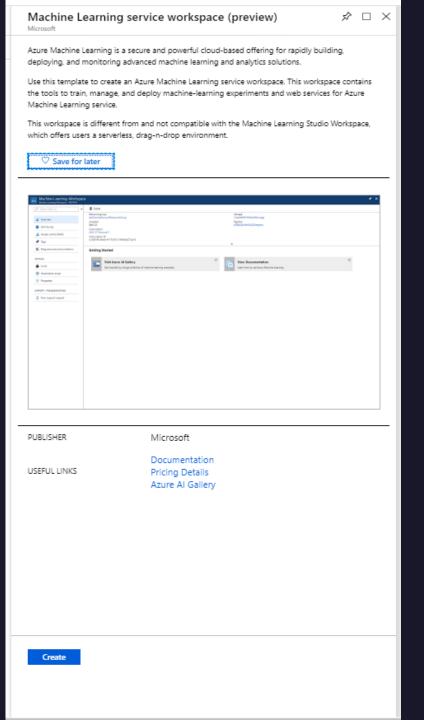
### The Workspace - Logical



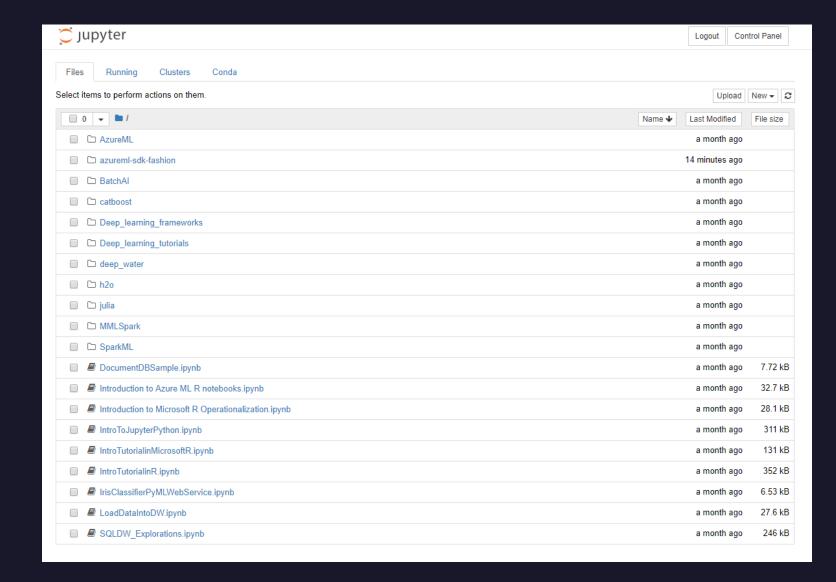
### The Workspace - Physical



# Create: Azure ML workspace



# Login: Jupyter Notebooks



# Update: Config.json

```
    Jupyter config.json
    14 minutes ago

 File
        Edit
               View
                       Language
         "subscription_id": "<subscriptionidhere>",
         "resource group": "deeplearning",
         "workspace name": "amyboyd ws"
```



# Demo Workspaces and Compute

https://aka.ms/azureml-sdk-fashion



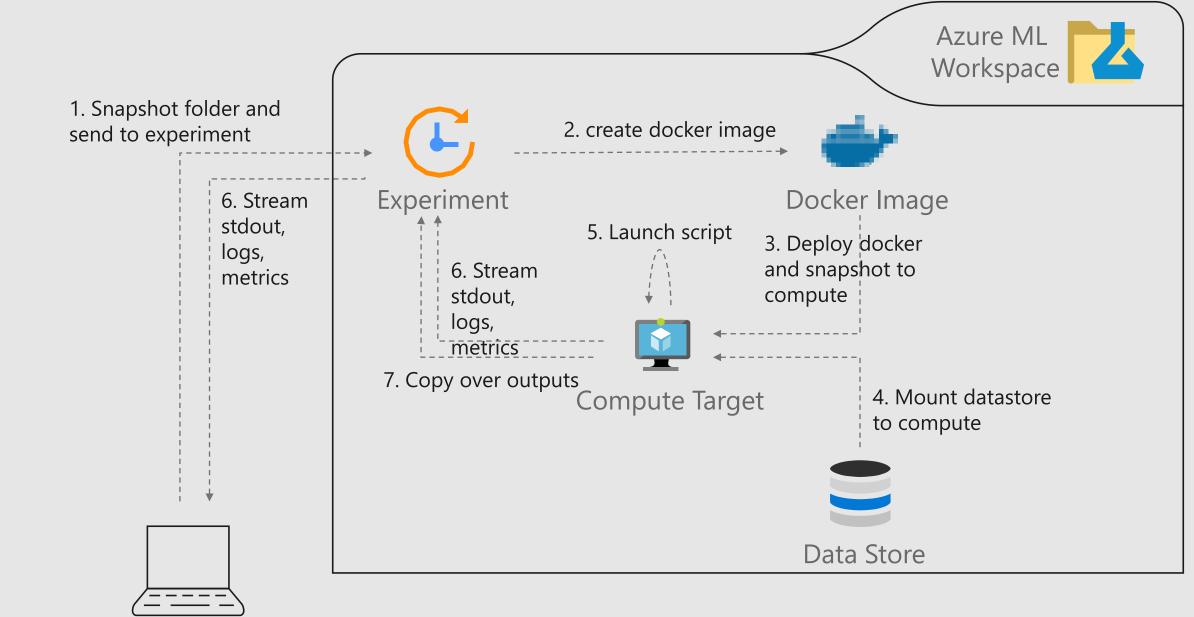












My Computer

### Demo Datastore

https://aka.ms/azureml-sdk-fashion

#### Prepare



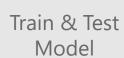


Prepare Data

#### **Experiment**



Build model (your favorite IDE)















Register and Manage Model

Build Image

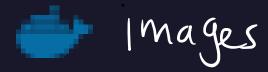
Deploy Service Monitor Model











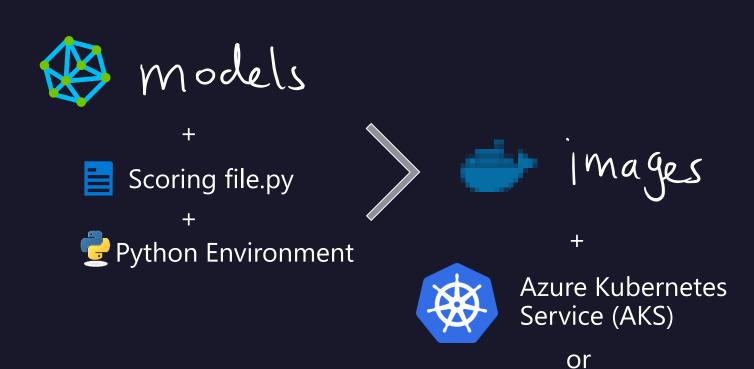




#### Create an Image



#### Deploy an Image



**Azure Container** 

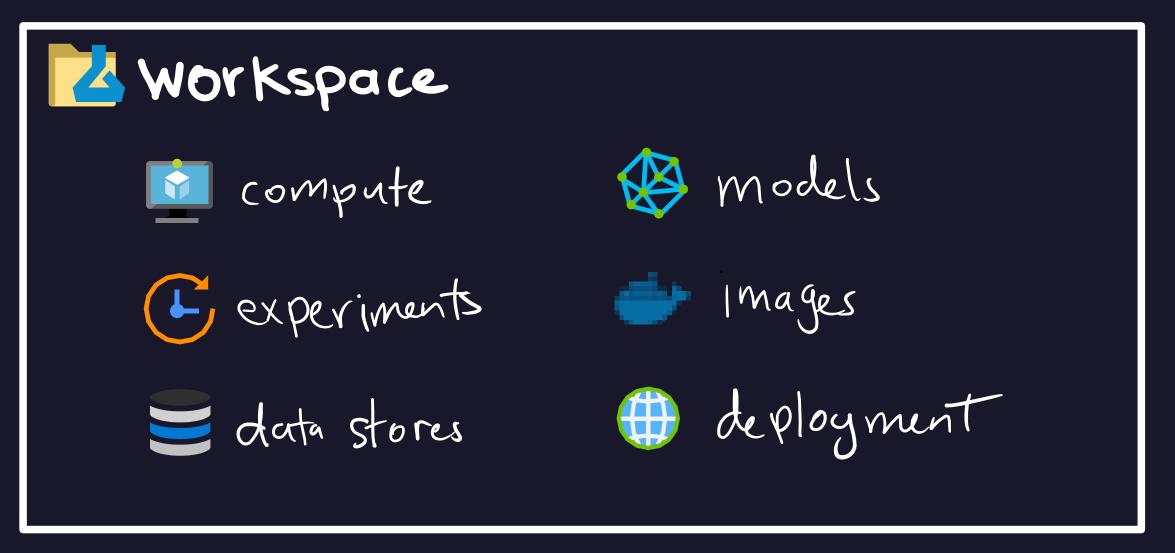
Instance



### Demo Deploy your model

https://aka.ms/azureml-sdk-fashion

### The Workspace - Logical



#### Azure ML SDK: Key Takeaways

Azure ML can help you track your ML projects progress

Azure ML makes it simpler to leverage cloud compute resources

I don't have to be a containers expert to deploy my models using Azure ML

#### Azure ML SDK

- Azure ML SDK Fashion Sample: https://aka.ms/azureml-sdk-fashion/
  - Azure ML Documentation:
- https://docs.microsoft.com/en-us/azure/machinelearning/service/overview-what-is-azure-ml
  - **Visual Studio Code Tools for Al:**
- https://marketplace.visualstudio.com/items?itemNam e=ms-toolsai.vscode-ai

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