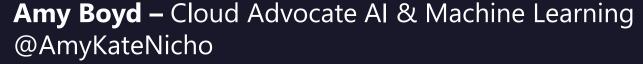
Machine Learning Helping you from Scripting to Production









THE DAWN OF ARTIFICIAL INTELLIGENCE





THE IMPORTANCE OF BUILDING



Azure Al

Al apps & agents



Azure Rot Service
Azure Cognitive Services

Machine learning



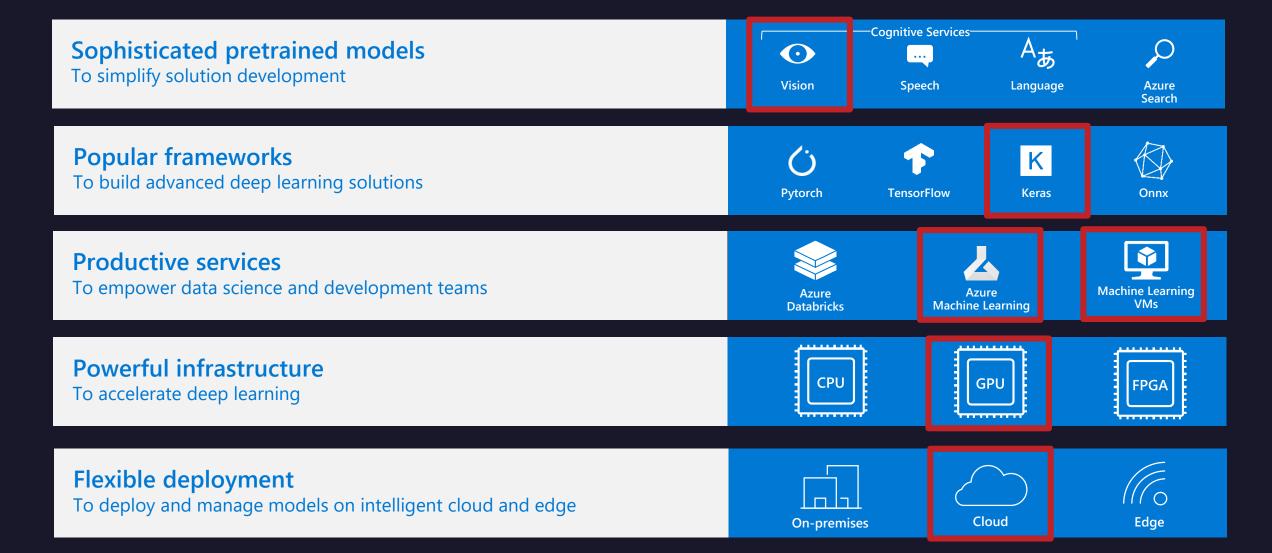
Azure Databricks
Azure Machine Learning

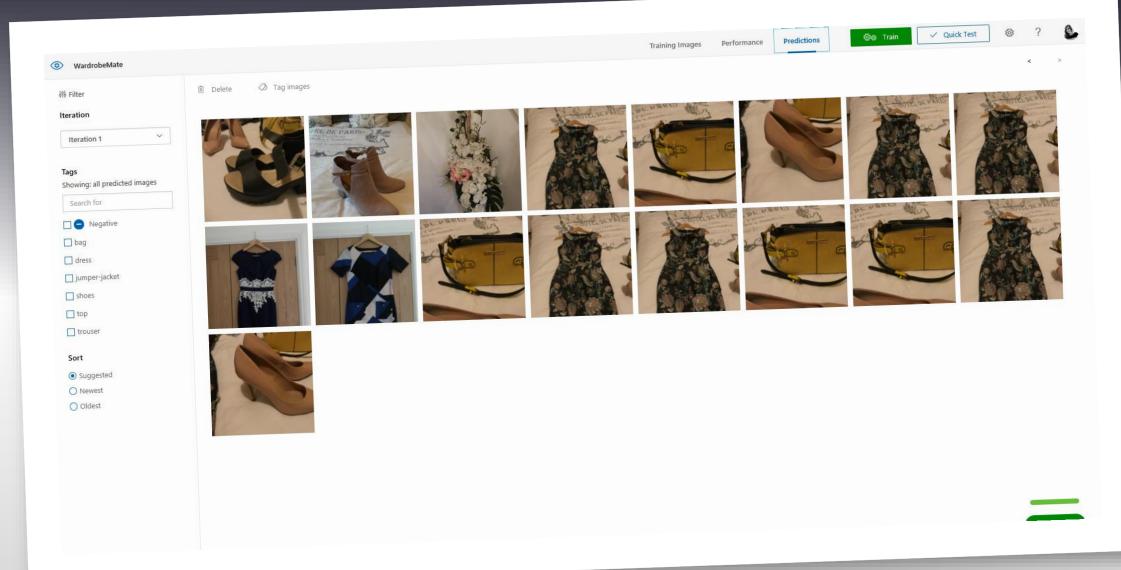
Knowledge mining



Azure Cognitive Searc

Machine Learning on Azure





AZURE CUSTOM VISION

Cognitive Services: Key Takeaways

Dataset needed:

 Only test data or small amount of training data (30 images per category)

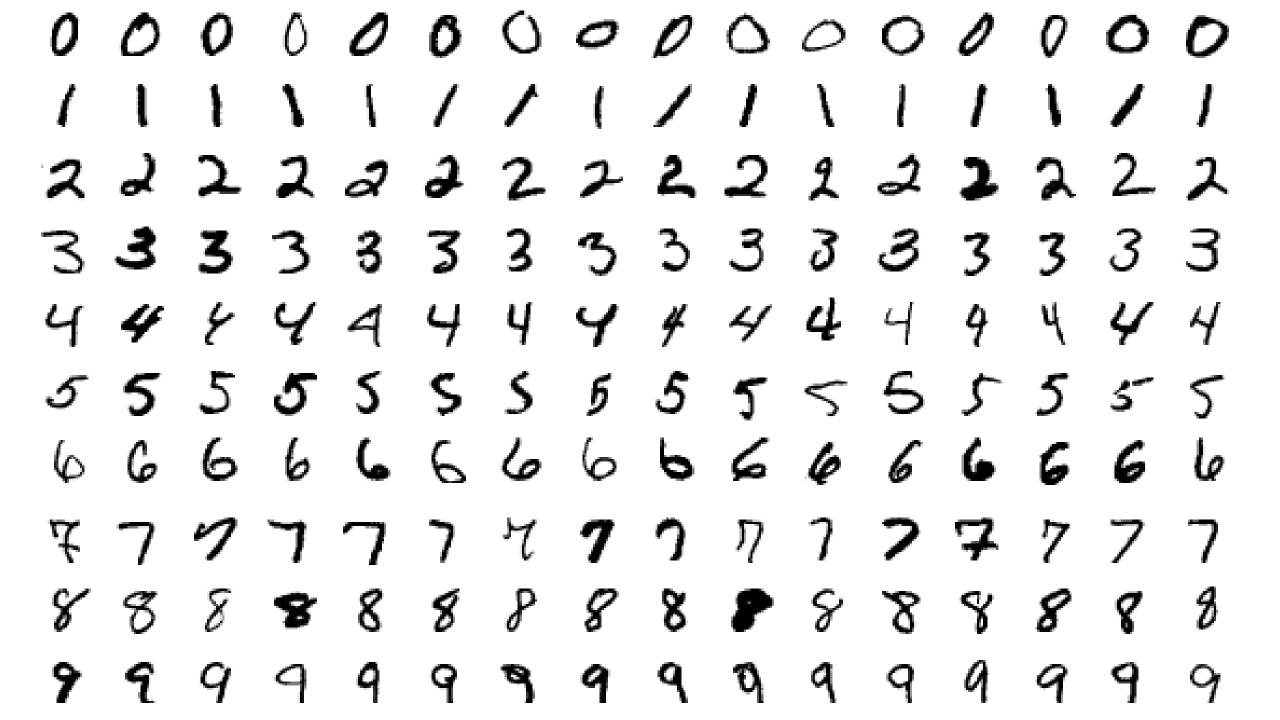
Compute needed:

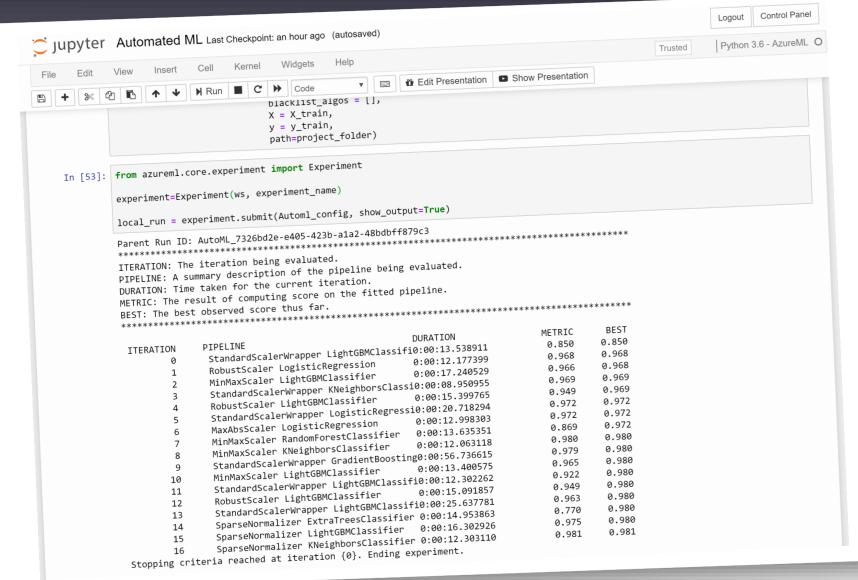
 This is a platform-as-a-service (PaaS) offering, so training is taken care of as part of the service



Machine Learning Knowledge:

None to basic understanding or learning





AUTOMATED ML

Automated ML: Key Takeaways

Dataset needed:

 More training samples needed to train a classification or regression algorithm (1000's to 10,000's)

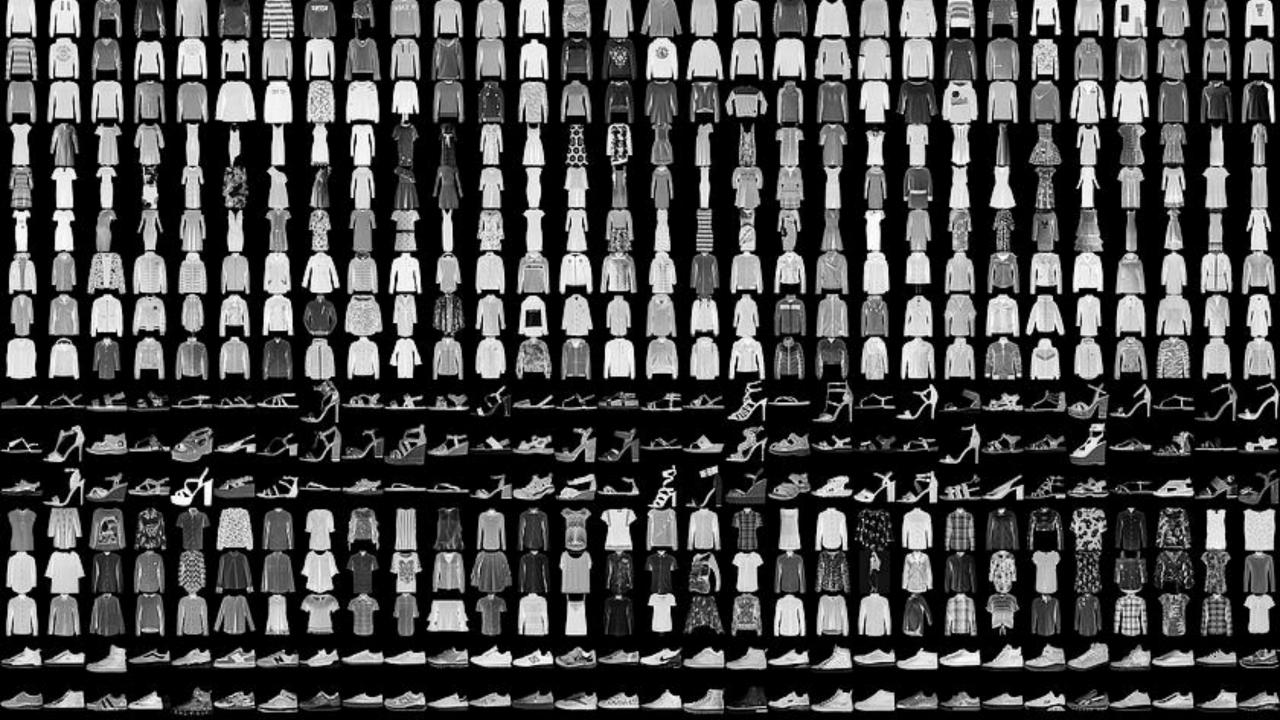
Compute needed:

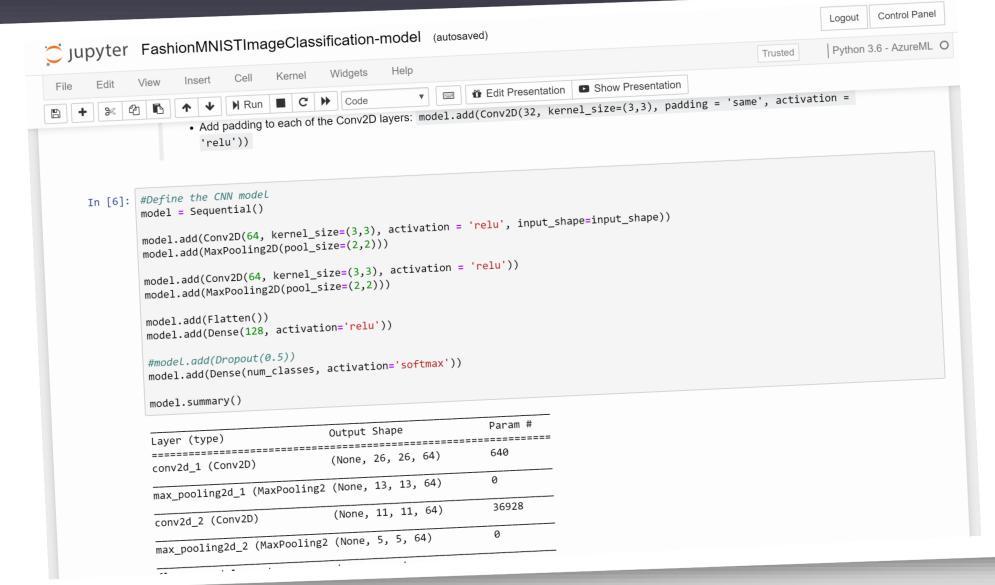
Ran in a Data Science VM (NC6) GPU series within a jupyter notebook

Machine Learning Knowledge:

 Python coding skills, and understanding data preparation and panadas dataframe and numpy arrays







AZURE ML SDK – DEEP LEARNING

Deep Learning: Key Takeaways

Dataset needed:

Large image dataset and preprocessing needed.
 Split between training, test and validation

Compute needed:

 Run larger algorithms on a Batch Al cluster of GPU machines in the cloud and remove compute after

Machine Learning Knowledge:

 A deeper understanding of both traditional and deep learning methods as well as frameworks such as Keras



"There are many levels of machine learning available using the cloud"

"I can start simple and progress to more complex models/datasets/scenarios"

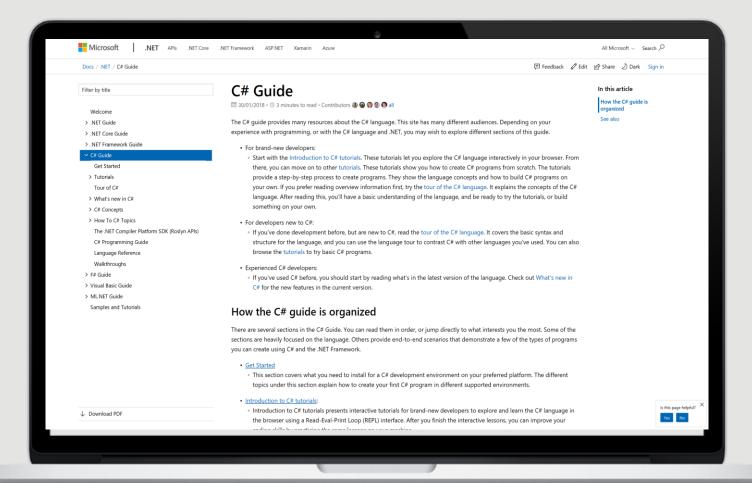
"Start building and build Proof of Concepts to test your ideas and scenarios"

ML: helping from scripting to production

- Azure Custom Vision Service: https://aka.ms/gaib-customvision
- Automated ML: https://aka.ms/gaib-automatedml
- Azure ML SDK: https://aka.ms/gaib-azureml

Docs.microsoft.com

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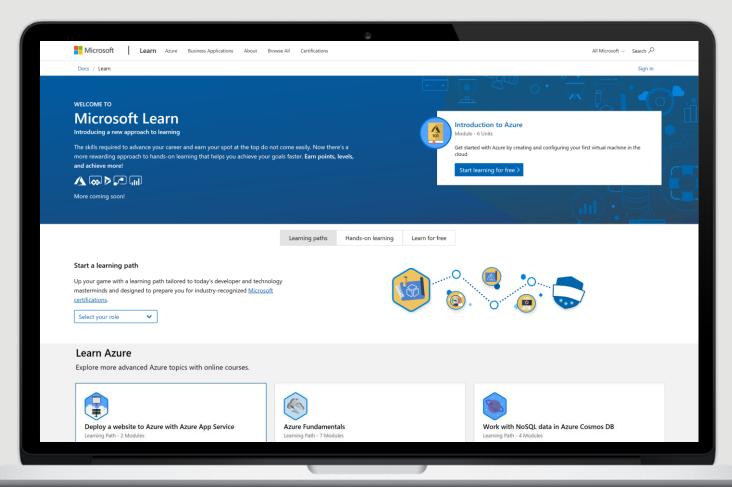


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Machine Learning Helping you from Scripting to Production



