

Azure Machine Learning

#AzureGlobalBootcamp 2017

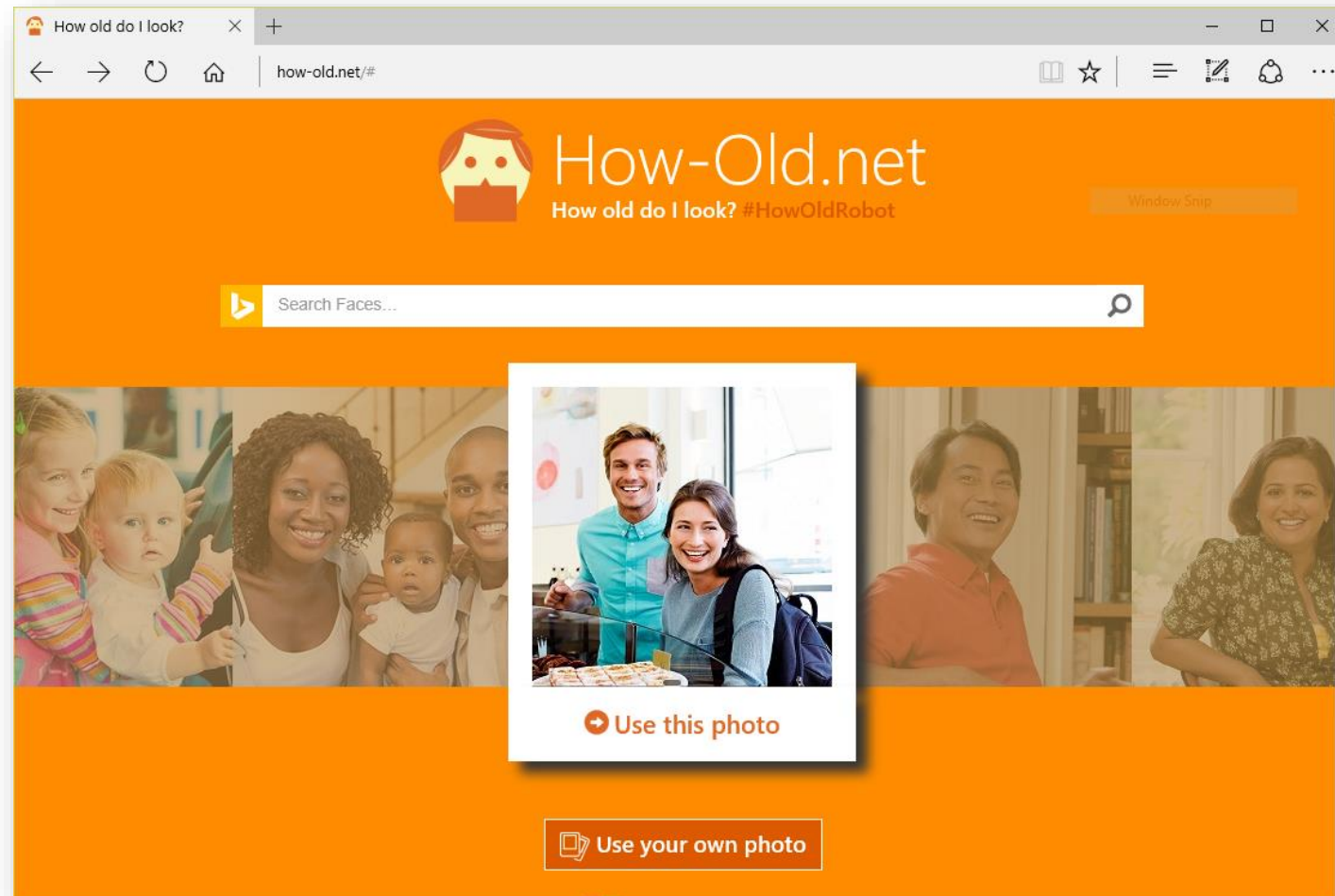
Toddy Mladenov

toddysm@agitaretech.com

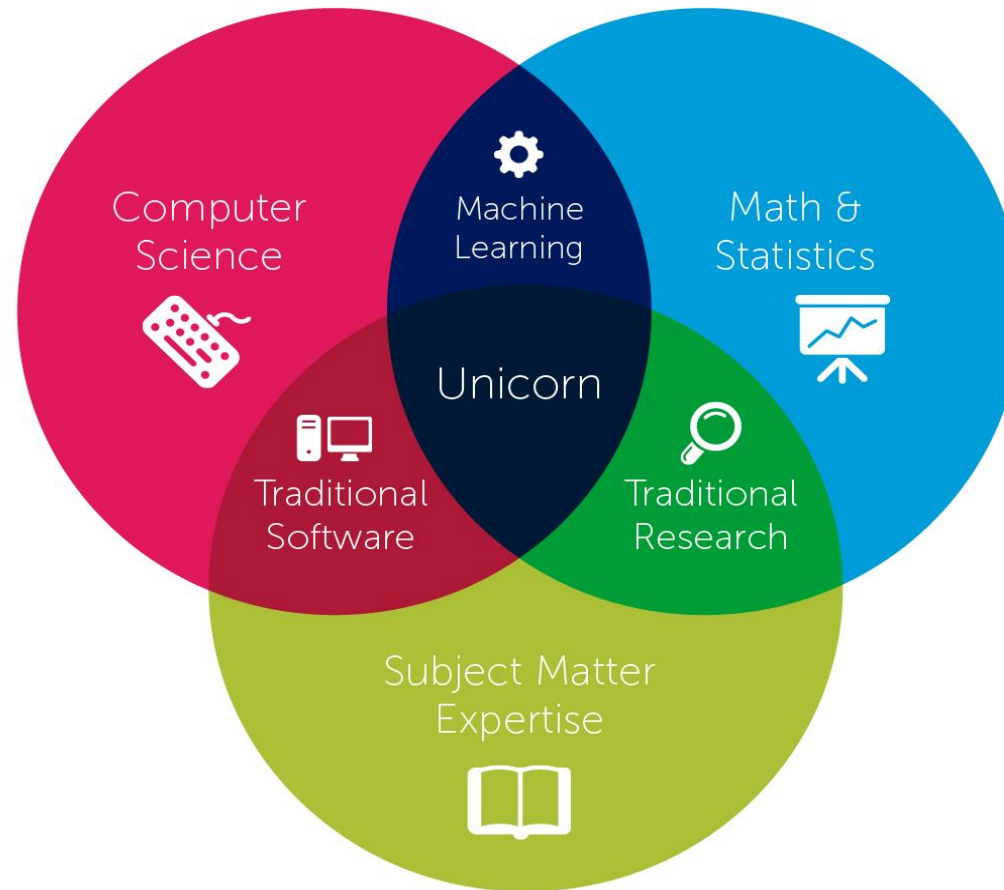
 @toddysm

Quick Survey

Machine Learning in Action



What is Data Scientist?



Lambda Architecture for Data Processing

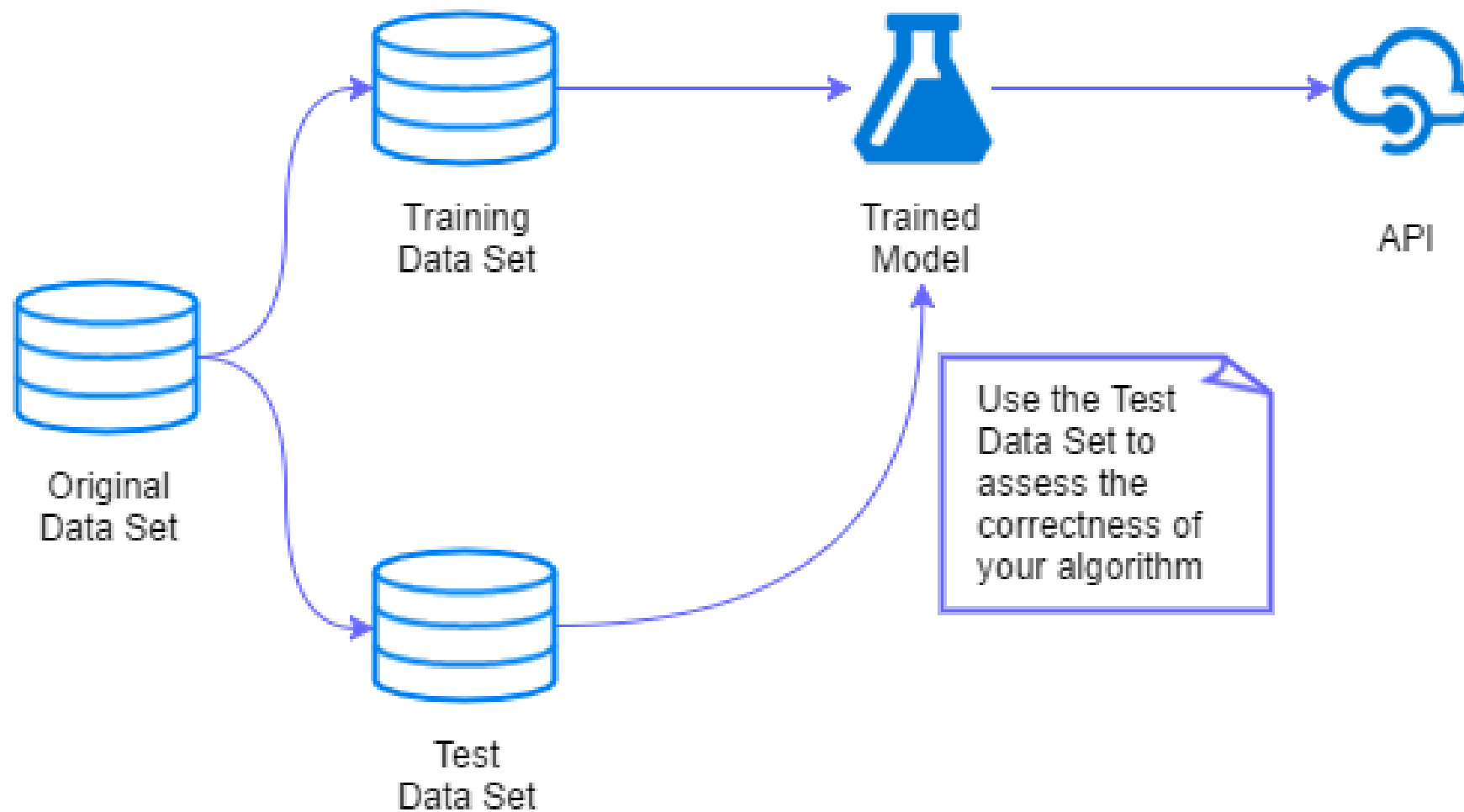


What is Machine Learning?

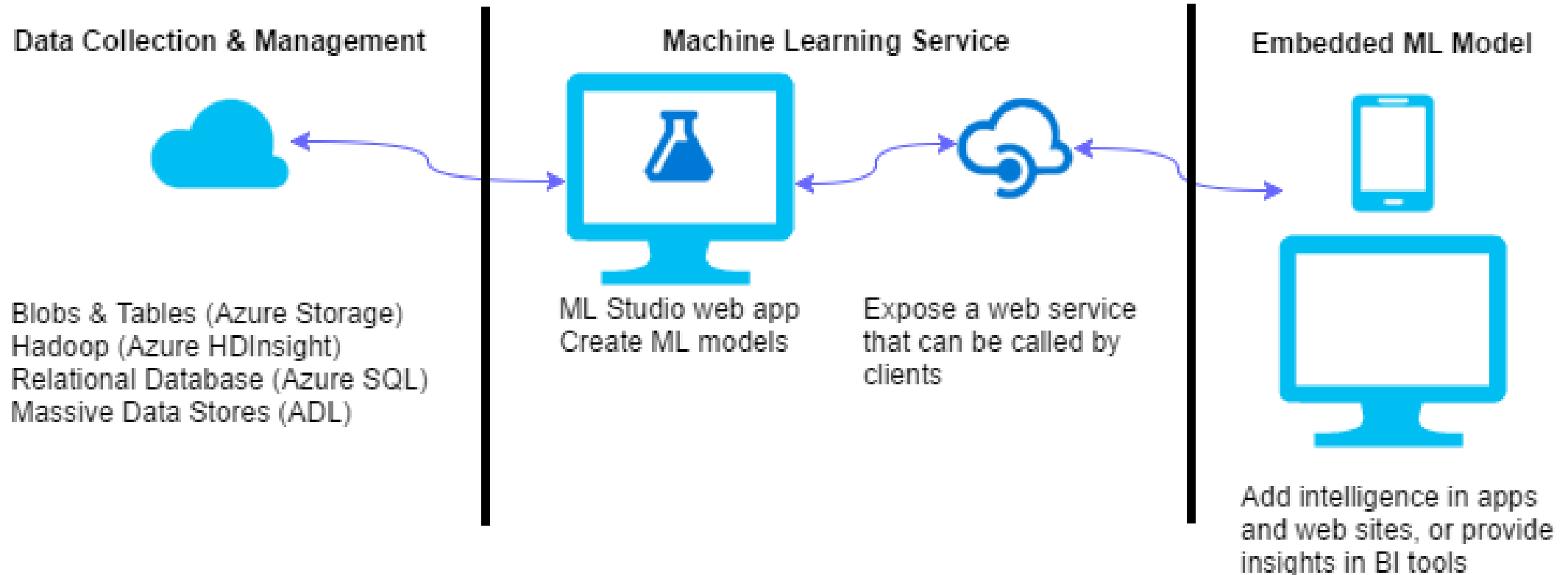
- Machine learning is a subfield of **computer science** that evolved from the study of **pattern recognition** and **computational learning theory** in artificial intelligence. Machine learning explores the study and construction of algorithms that can **learn from and make predictions on data***
- Models
 - Supervised
 - Unsupervised

* Definition: Wikipedia

Machine Learning Workflow



Machine Learning Workflow (cont.)

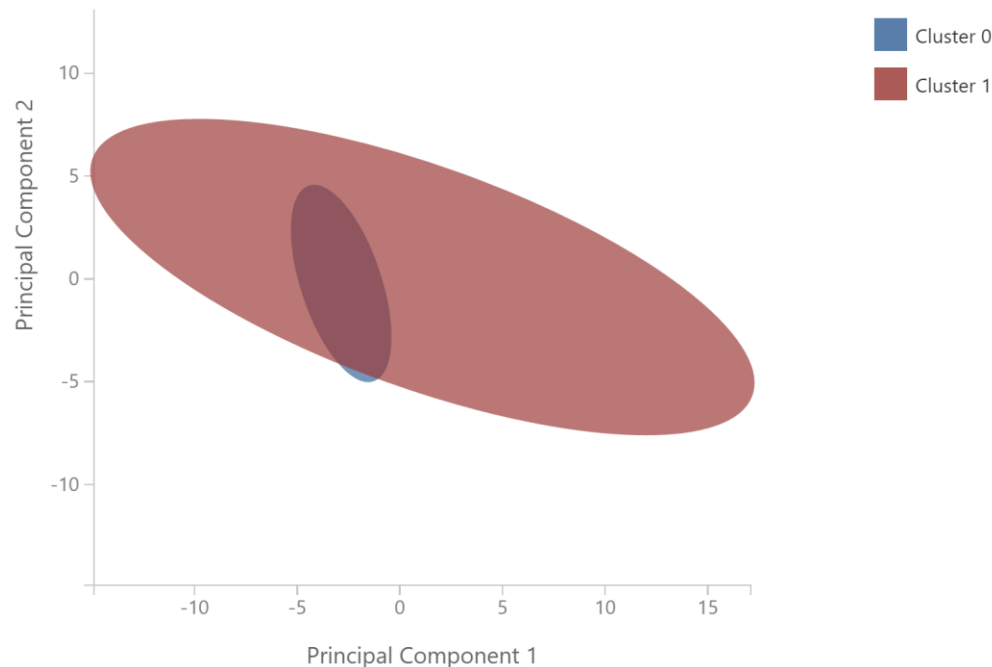


Azure Machine Learning

- Fully Managed
 - No software to install, no hardware to manage, and one portal to view and update
- Integrated
 - Simple drag, drop and connect interface for Data Science. No need for programming for common tasks
- Best in Class Algorithms + R (and Python)
 - Built-in collection of best of breed algorithms. Support for R and popular CRAN packages
- Deploy in Minutes
 - Operationalize models with a single click. Monetize in Machine Learning Marketplace

K-Means Clustering

- K-means clustering aims to partition n observations into k clusters in which each observation belongs to the cluster with the nearest mean, serving as a prototype of the cluster.



Demo

Resources

- Azure ML Cheat Sheet
<http://aka.ms/MLCheatSheet>
- Azure ML eBook (Free)
<http://bit.ly/a4r-mlbook>
- DataCamp
<https://www.datacamp.com/>
- DataQuest
<https://www.dataquest.io>
- Kaggle (data sets)
<http://www.kaggle.com>
- Cortana Intelligence Gallery
<https://gallery.cortanaintelligence.com>
- Azure Global Boot Camp Community Content
<https://github.com/Microsoft/TechnicalCommunityContent/tree/master/Big%20Data%20and%20Analytics/Azure%20Machine%20Learning>

Thank you!