AZURE MACHINE LEARNING

Azure Machine Learning Track

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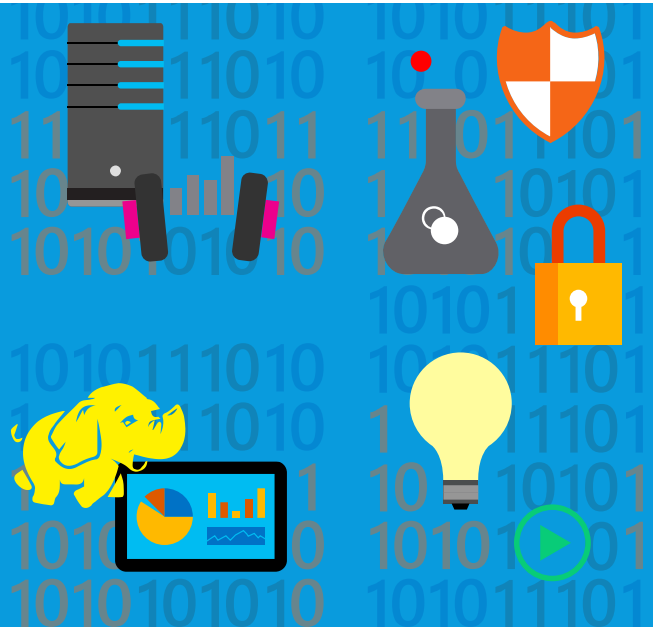
2017 Global Azure BOOTCAMP



SESSION AGENDA

- Azure Machine Learning Overview
- Understanding the ML Studio
- Experiment end-to-end

Fully managed

No software to install, no hardware to manage, and one portal to view and update

Connected

Simple drag, drop and connect interface for both data acquisition and modeling

Best in Class Algorithms + R + *Python*

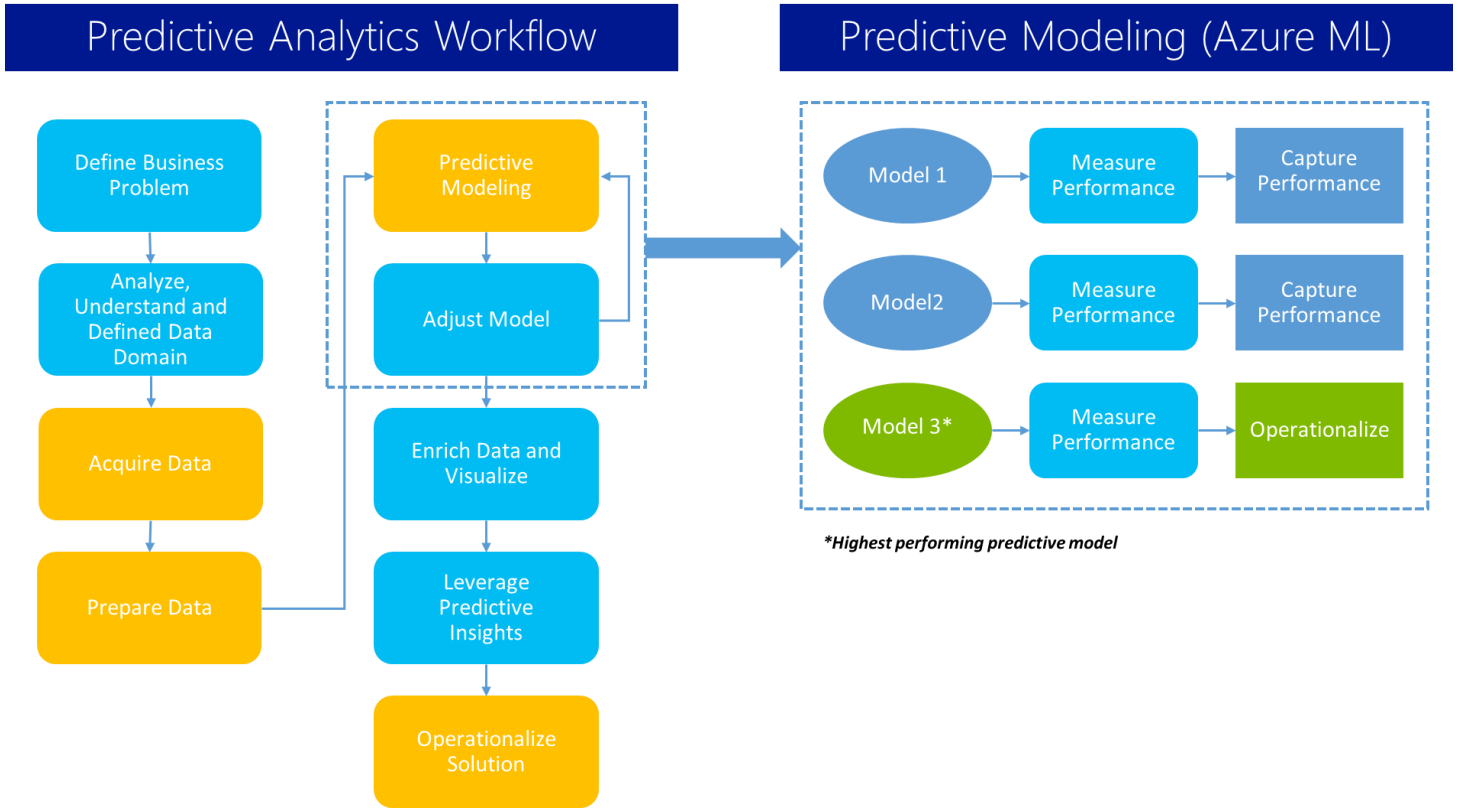
Access to sample experiments, tested algorithms, support for your custom R, and over 350 R packages

Deploy in minutes

Tooled for quick deployment, hand-off and updates – click "Publish Web Service"

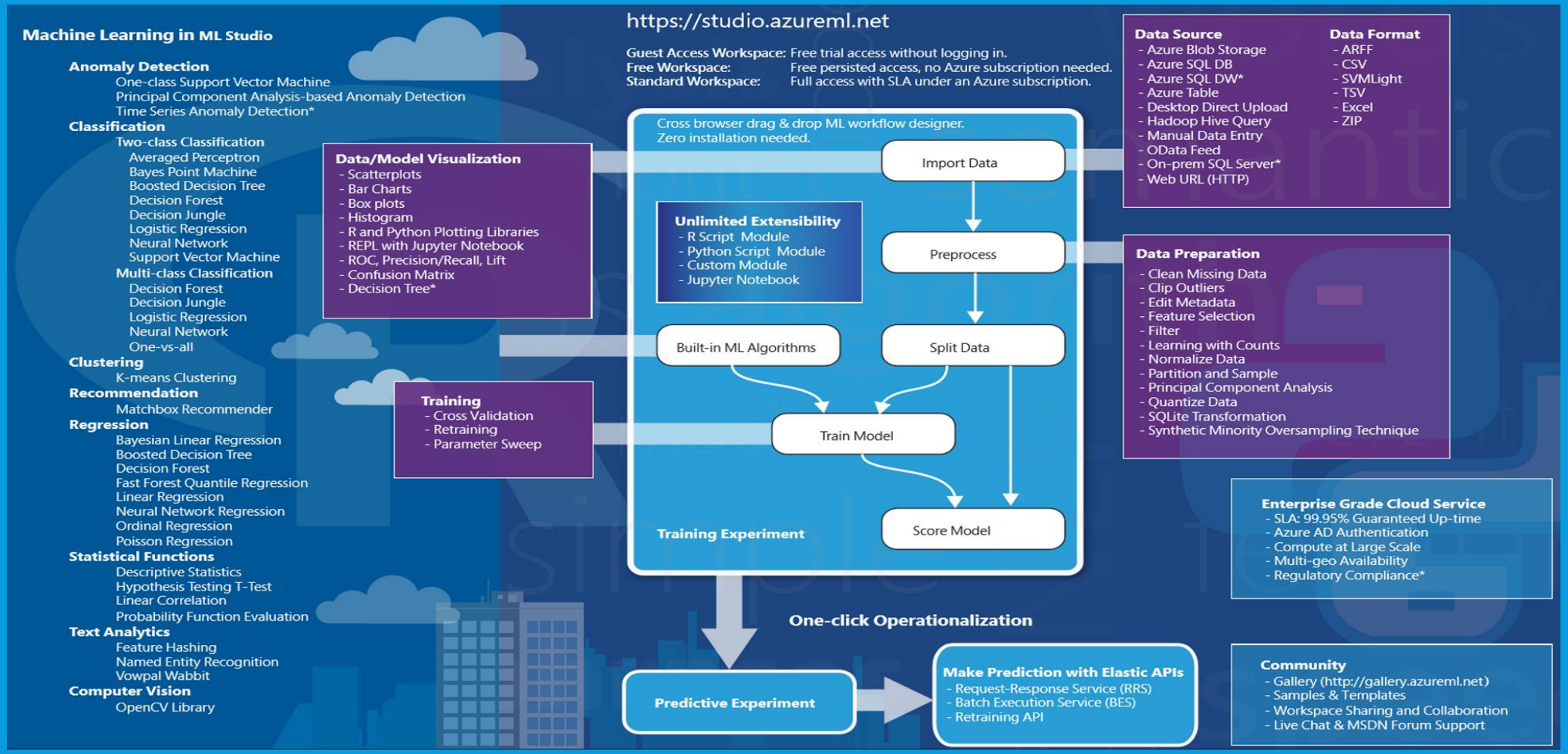
AZURE ML OVERVIEW

AZURE MACHINE LEARNING WORKFLOW



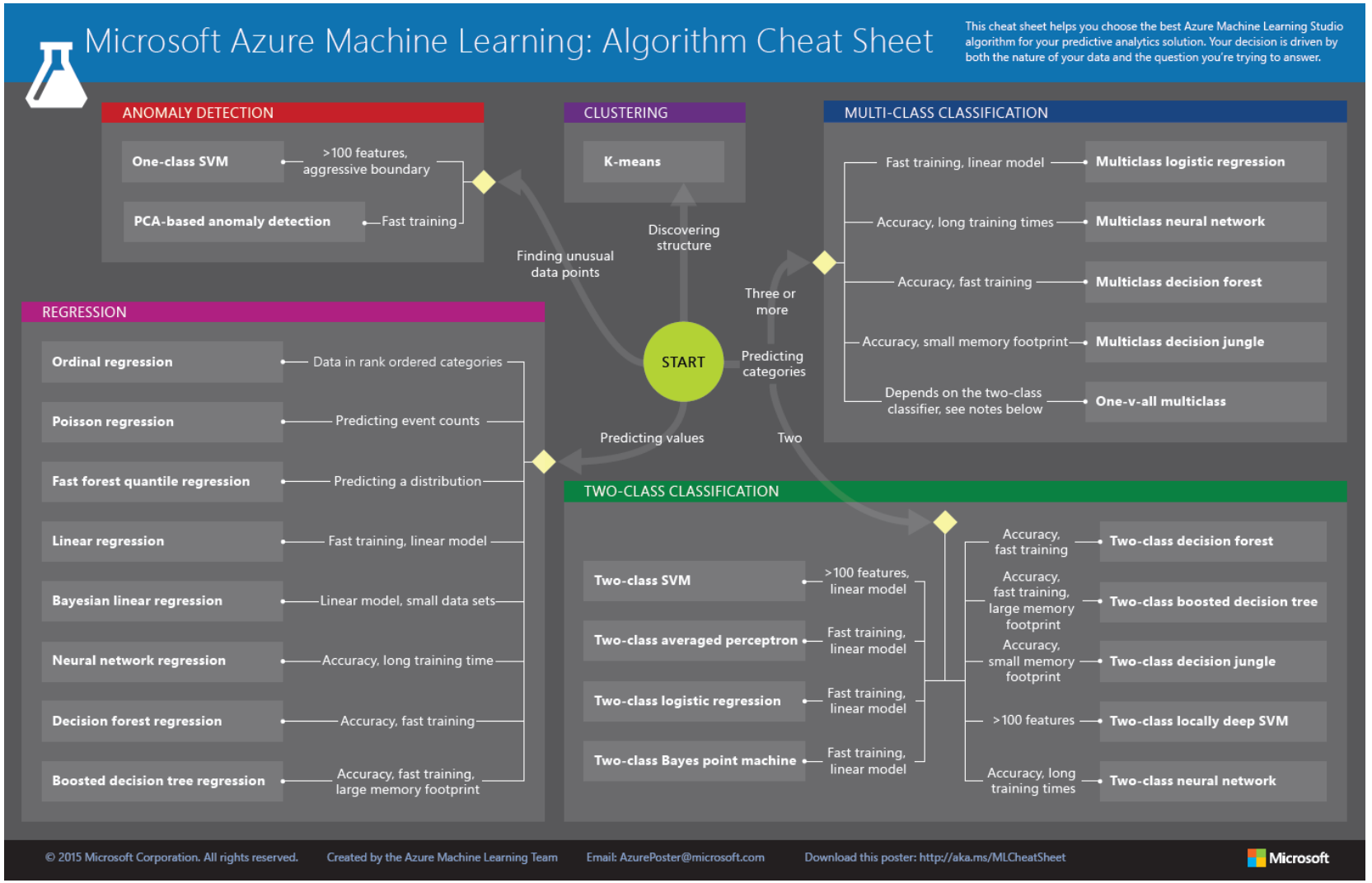
- Azure machine learning is a continuous process, which may require extensive amount of time to finish a proper model and model comparisons.

AZURE ML TASKS



AZURE ML ALGORITHMS

- You need to know what you're looking for with AzureML – and based on that choose proper algorithm for AzureML



LEARNING TYPES

- Supervised learning is a type of machine learning algorithm that uses known datasets to create a model that can then make predictions. The known data sets are called and include input data elements along with known response values.
- Unsupervised machine learning, the success of the new predictive model depends entirely on the ability to infer and identify patterns, structures, and relationships in the incoming data set. The goal of inferring these patterns and relationships is that the objects within a group be similar to one another—and also different from other objects in other groups.

TIME TO EXPERIMENT

Let’s create an experiment, live …

ADDITIONAL READING

- Free eBook
  - https://blogs.msdn.microsoft.com/microsoft_press/2015/04/15/free-ebook-microsoft-azure-essentials-azure-machine-learning/
- Free Azure trial offer at:
  - http://azure.microsoft.com/en-us/pricing/free-trial
- Free Azure Machine Learning Trial offer at:
  - https://studio.azureml.net/Home
- Azure Machine Learning:
  - http://azure.microsoft.com/en-us/services/machine-learning/
- Azure Machine Learning Data Market:
  - http://datamarket.azure.com/browse?query=machine%20learning
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  - http://blogs.technet.com/b/machinelearning
- Videos: PASS Data Science Virtual Chapter
  - https://www.youtube.com/channel/UCqB3xWdwjA9soFV6EOu7qfg