**Topic Outline**

Getting a Jumpstart with an Azure Data Science Virtual Machine

* How to Create an Azure Data Science VM
* Why create a DSVM in Azure?
* Review of the Data Science Tools (Jupyter Notebooks, Python PyCharm IDE, Anaconda, RStudio, R Language, SQL Server/ML Server, Power BI, ML Workbench)

Jupyter Notebooks

Data Science & Predictive Analytics

* Basic Concepts
* R Language
  + Why Start with R and Not Python?  A discussion of R vs. Python
  + Concepts
  + Review of Syntax and Key Constructs like data types, date frames, data wrangling, model training and use
* Creating a Predictive Model

SQL Server/ML Server Integration

Power BI and Extending Power BI with R Scripts

Scaling Up with Spark

Azure Databricks – One Stop Shopping for Data Science