Data AI: Azure Machine Learning

Overview

Azure Machine Learning is a cloud predictive analytics service that makes it possible to quickly create and deploy predictive models as analytics solutions. It is a three-day WorkshopPLUS course that provides you with the knowledge and tools necessary to understand the capabilities and usage of Azure Machine Learning. This workshop will also help you to learn how to create a Machine Learning solution utilizing Azure Machine Learning. This workshop is targeted at Business Intelligence Engineers, Data Scientists, SQL Server Architects, Database Administrators, IT professionals, SQL Server support staff and DevOps Engineers.

Objectives

After completing this training, students will be able to:

- Gain a comprehensive understanding of the features and capabilities of creating a machine learning experiment.
- Learn reliable methods of creating and deploying models using Azure machine Learning.
- Take what you've learned in the classroom and apply it to your environment at your organization.

Key Takeaways

Course Material

- Azure Notebooks
- Azure Machine Learning Studio
- Azure Machine Learning service
- Azure Machine Learning Pipelines

Hands-on Labs

- All of the concepts covered above will be supported by hands-on labs and/or demos.
- Attendees have access to resources and labs for up to 6 months after workshop completion.

Agenda

Day 1

- Introduction to Azure Machine Learning

Day 2

- Data Cleaning and Model Improvement
- Site Collection Administration

Day 3

- Azure Machine Learning Service

Plan for three full days. Early departure on any day is not recommended.

Course Details

Module 1: Introduction to Azure Machine Learning

- Introduction to Machine Learning
- Regression
- Classification
- Time Series Analysis
- Clustering

Module 2: Data Cleaning and Model Improvement

- Initial Data Analysis
- Data Cleaning
- Model Improvement

Module 3: Azure Machine Learning Service

- Azure Machine Learning Service Fundamentals
- Azure Machine Learning Service Model Training
- Azure Machine Learning Service Model Deployment
- Pipelines in Azure Machine Learning Service

Recommended Qualifications

- General experience with data
- Basic knowledge of statistics

Hardware Requirements

- An Intel Core-i5-based PC
- 4 GB RAM
- 128 GB HDD
- Windows 7 SP1 or later
- Office 2013 Professional Plus
- Microsoft/Windows Live ID to connect to the virtual environment
- Internet access with at least 1 Mbps bandwidth per student.

For more information

Contact your Henson Group representative for further details.