

# Cloud Workshop « La Data Science avec les technologies Microsoft »

## **Exercices Azure ML Studio**



# Vos interlocuteurs Microsoft

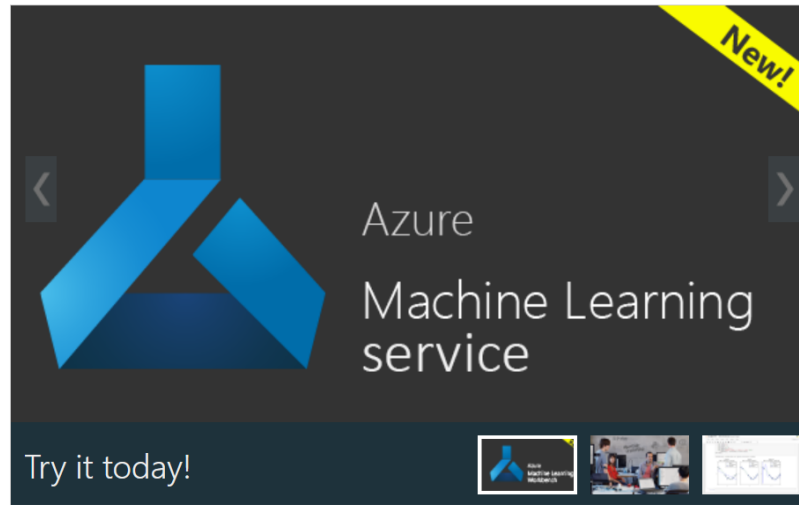
Serge Retkowsky

[serge.retkowsky@microsoft.com](mailto:serge.retkowsky@microsoft.com)

# Agenda Cloud Workshop

Agenda	Contenu
09h00 - 09h30	Accueil et Introduction
09h30 - 11h00	Présentation de la plateforme Azure pour les analyses de Machine Learning
11h00 - 12h30	Hands on Lab « Réalisation et déploiement de modèles prédictifs avec Azure ML Studio »
12h30 - 13h30	Déjeuner
13h30 - 15h00	Hands on lab « Réalisation et déploiement de modèles prédictifs avec le SDK Azure ML Service »
15h00 - 16h30	Hands On Lab « Réalisation et déploiement de modèles prédictifs avec Azure Databricks et Azure ML Services »
16h30 - 17h00	Questions & réponses, conclusion

# Azure ML Studio



## Welcome to Azure Machine Learning

### Try it for free

No [Azure subscription](#)? No credit card? No problem! Choose anonymous Guest Access, or sign in with your work or school account, or a Microsoft account.

[Sign In](#) 

Not an Azure ML user?

[Sign up here](#)

[Pricing & FAQ](#)

By using this free version, you agree to be bound by the Microsoft Azure Website Terms of Use.

## Announcements **NEW!**

### Azure Machine Learning Studio R Runtime Upgrade

Aired on October 31, 2018

The R language engine in the Execute R Script module of Azure Machine Learning Studio has added a new R runtime version -- Microsoft R Open (MRO) 3.4.4. MRO 3.4.4 is based on open-source CRAN R 3.4.4 and is therefore compatible with packages that works with that version of R.

[> Learn More](#)

### Mining Campaign Funds

Aired on August 03, 2017

Play with 2016 Presidential Campaign finance data while learning how to prepare a large dataset for machine learning by processing and engineering features. This sample experiment works on a 2.5 GB dataset and will take about 20 minutes to run in its entirety.

[> Learn More](#)

### Inside the Data Science VM

Aired on June 21, 2016

DSVM is a custom Azure Virtual Machine image that is published on the Azure marketplace and available on both Windows and Linux. It contains several popular data science and development tools both from Microsoft and from the open source community all pre-installed and pre-configured and ready to use. We will cover best practices that would show how you can use the DSVM effectively to run your next data science or analytics project.

<https://studio.azureml.net>

# Azure ML Studio

Machine Learning

Quick Evaluation

Guest Workspace

8-hour trial

No sign-in required.

Enter

- No hassle instant access
- Stock sample datasets
- ML models built in minutes
- Full range of ML algorithms

Most Popular

Free Workspace

\$0/month

Don't already have a Microsoft account?  
Simply [sign up here](#).

Sign In

- Free access that never expires
- 10 GB storage on us
- R and Python scripts support
- Predictive web services

Enterprise Grade

Standard Workspace

\$9.99/month

[Azure subscription](#) required  
Other charges may apply. [Read more](#).

Create Workspace

- Full SLA Support
- Bring your own Azure storage
- Parallel graph execution
- Elastic Web Service endpoints

# Azure ML Studio

The screenshot displays the Microsoft Azure Machine Learning Studio interface. The top navigation bar includes the title "Microsoft Azure Machine Learning Studio", the workspace name "AzureMLWorkspace", and user icons. The left sidebar contains a search bar and a list of experiment items: Saved Datasets, Trained Models, Transforms, Data Format Conversions, Data Input and Output, Data Transformation, Feature Selection, Machine Learning, OpenCV Library Modules, Python Language Modules, R Language Modules, Statistical Functions, Text Analytics, Time Series, Web Service, and Deprecated.


The main workspace is titled "TITANIC" and is in "draft" status. It shows a workflow diagram for training a model. The steps are: "train.csv" (dataset) -> "Select Columns in Dataset" -> "Split Data" -> "Train Model" (using "Two-Class Decision Forest") -> "Score Model" -> "Evaluate Model". A "Mini Map" view is visible in the bottom left corner of the workspace, showing a smaller version of the workflow diagram.

The right sidebar contains the "Properties" and "Project" tabs. The "Properties" tab is active, showing "Experiment Properties" and "Summary". The "Experiment Properties" section includes fields for "START TIME", "END TIME", "STATUS CODE" (InDraft), and "STATUS DETAILS" (None). The "Summary" section has a text area for "Enter a few sentences describing your experiment (up to 140 characters)". The "Description" section has a text area for "Enter the detailed description for your experiment". A "Quick Help" section is also visible at the bottom of the sidebar.

The bottom toolbar contains icons for "NEW", "RUN HISTORY", "SAVE", "SAVE AS", "DISCARD CHANGES", "RUN", "SET UP WEB SERVICE", and "PUBLISH TO GALLERY".



# Contenu du Workshop

 retkowsky / Hands-on-Lab-Azure-ML

Unwatch 1

Star 0

Fork 0

<> Code

Issues 0

Pull requests 0

Projects 0

Wiki

Insights

Settings


Branch: master ▾ Hands-on-Lab-Azure-ML / 1 Lab Azure ML Studio /

Create new file

Upload files





Find file

History

 retkowsky Add files via upload

Latest commit ee86892 14 seconds ago

..

 Titanic.csv	Add files via upload	14 seconds ago
 Workshop Azure ML Studio.pdf	Add files via upload	14 seconds ago
 test.csv	Add files via upload	14 seconds ago
 train.csv	Add files via upload	14 seconds ago

<https://aka.ms/SergeAMLS>

