

Cloud Workshop « La Data Science avec les technologies Microsoft »

Exercices Azure ML Studio



Vos interlocuteurs Microsoft

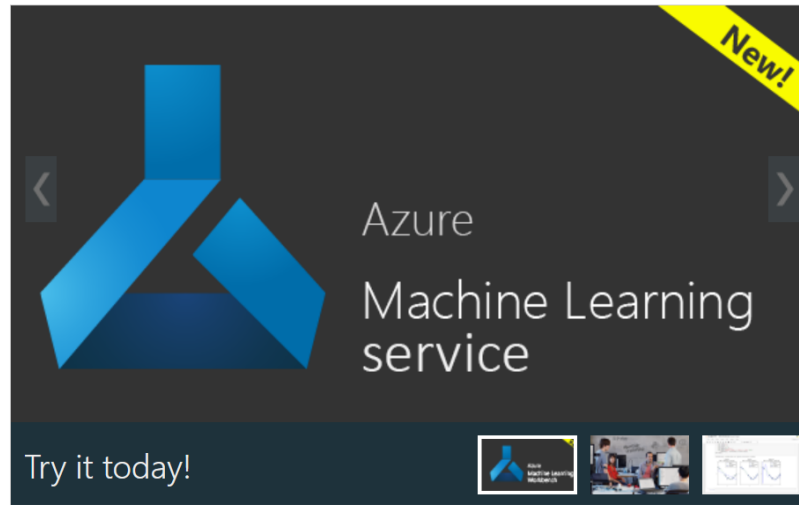
Serge Retkowsky

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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

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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

Microsoft Azure Machine Learning Studio

AzureMLWorkspace

Training experiment Predictive experiment

TITANIC

In draft
Draft saved at 12:02:46

```
graph TD; A[train.csv] --> B[Select Columns in Dataset]; B --> C[Split Data]; C --> D[Two-Class Decision Forest]; C --> E[Two-Class Neural Network]; D --> F[Train Model]; E --> G[Train Model]; F --> H[Score Model]; G --> I[Score Model]; H --> J[Evaluate Model]; I --> J;
```

Search experiment items

- ▶ Saved Datasets
- ▶ Trained Models
- ▶ Transforms
- ▶ Data Format Conversions
- ▶ Data Input and Output
- ▶ Data Transformation
- ▶ Feature Selection
- ▶ Machine Learning
 - ▶ Evaluate
 - Cross Validate Model
 - Evaluate Model
 - Evaluate Recommen...
 - ▶ Initialize Model
 - ▶ Anomaly Detection
 - ▶ Classification
 - Multiclass Decisio...
 - Multiclass Decisio...
 - Multiclass Logistic...
 - Multiclass Neural ...

Properties Project

Evaluate Model

START TIME	4/8/2019 1...
END TIME	4/8/2019 1...
ELAPSED TIME	0:00:02.501
STATUS CODE	Finished
STATUS DETAILS	None

[View output log](#)


Quick Help




Evaluates a scored classification or regression model with standard metrics
[\(more help...\)](#)








NEW


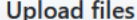


RUN HISTORY SAVE SAVE AS DISCARD CHANGES RUN SET UP WEB SERVICE PUBLISH TO GALLERY


Contenu du Workshop

 retkowsky / Cloud-Workshop-Azure-ML


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 retkowsky Delete test.csv Latest commit dc917a9 33 seconds ago

..

 images Add files via upload 7 minutes ago

 Exercice Azure ML Studio TITANIC.md Add files via upload 3 minutes ago

 train.csv Add files via upload 2 months ago

<https://aka.ms/SergeAMLS>

Contenu du Workshop

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retkowsky Add files via upload 15fc595 19 minutes ago

1 contributor

92 lines (47 sloc) 4.98 KB Raw Blame History

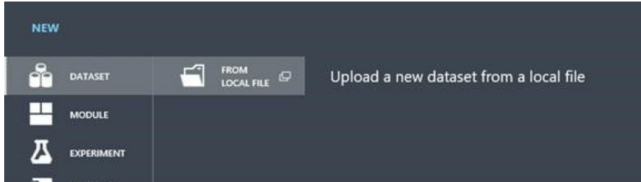
Azure Machine Learning

Titanic Survival

Today, we're going to create a model to predict who would have lived (and died) during the sinking of the titanic.

Modeling

1. We're now going to upload your saved CSV file as a dataset in Azure Machine Learning.
2. Navigate to the [Azure Machine Learning Studio](#) and log in. (If you run into any issues, try opening an inprivate browser session.)
3. On the bottom left, click the plus sign, and choose **DATASET** -> **FROM LOCAL FILE**.



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