Azure Machine Learning et Titanic: plutôt #TeamJack ou #TeamRose?

2019 Global Azure BOOTCAMP



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Faisons connaissance

Joël CREST Référent Data & Business Intelligence









www.linkedin.com/in/joelcrest



www.clubpowerbi.com https://www.meetup.com/fr-FR/Club-Power-BI/



Solutions Expert

Data Management and Analytics

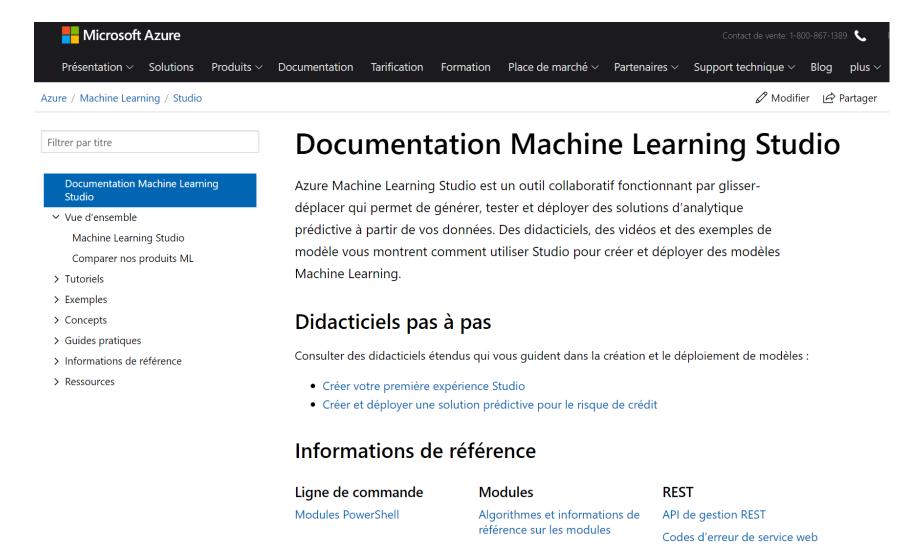


Solutions Expert

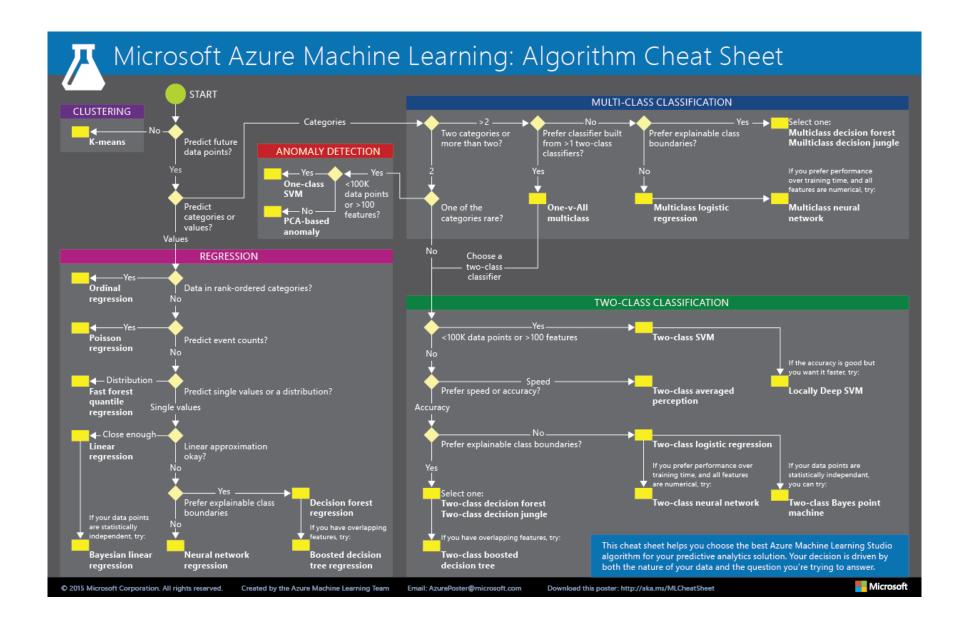
Business Intelligence

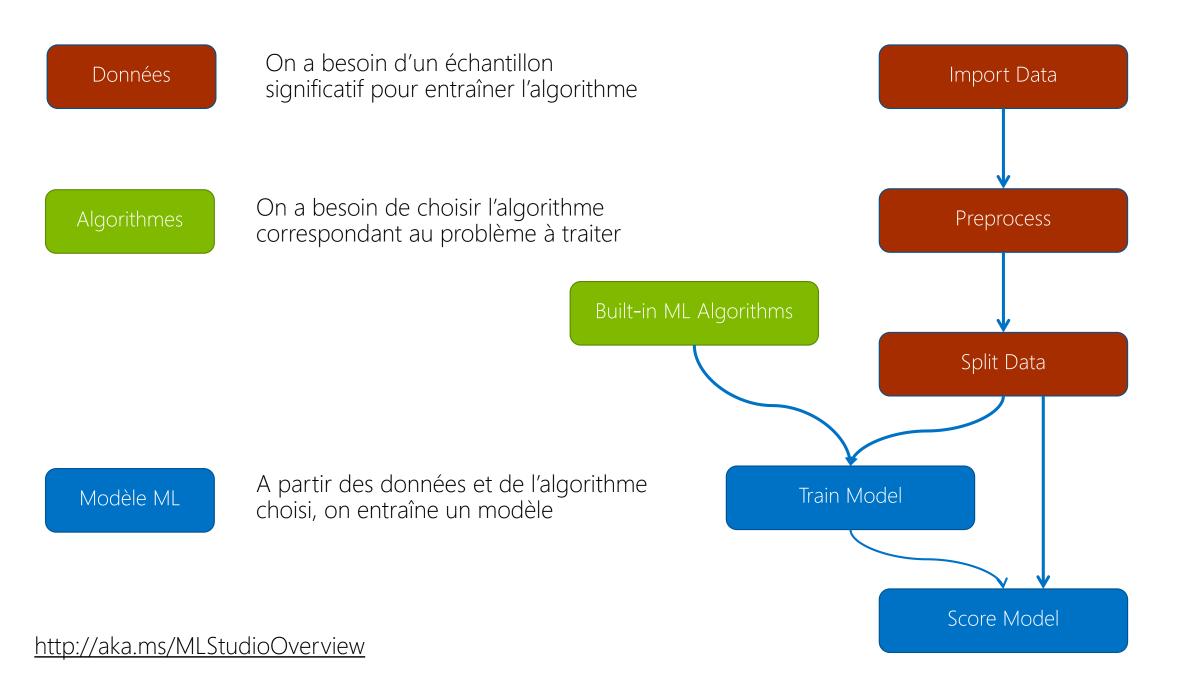


https://docs.microsoft.com/fr-fr/azure/machine-learning/studio/



http://aka.ms/MLCheatSheet





http://web.stanford.edu/class/archive/cs/cs109/cs109.1166/problem12.html

CS109

Lecture Notes ▼

Problem Sets

Resources -

Demos ▼

Office Hours

Overview

A Titanic Probability

Thanks to Kaggle and encyclopedia-titanica for the dataset.

This is the last question of Problem set 5. In this problem you will use real data from the Titanic to calculate conditional probabilities and expectations.





tldr: the ship sinks

On April 15, 1912, the largest passenger liner ever made collided with an iceberg during her maiden voyage. When the Titanic sank it killed 1502 out of 2224 passengers and crew. This sensational tragedy shocked the international community and led to better safety regulations for ships. One of the reasons that the shipwreck resulted in such loss of life was that there were not enough lifeboats for the passengers and crew. Although there was some element of luck involved in surviving the sinking, some groups of people were more likely to survive than others.

The titanic.csv file contains data for 887 of the real Titanic passengers. Each row represents one person. The columns describe different attributes about the person including whether they survived (S), their age (A), their passenger-class (C), their sex (G) and the fare they paid (X).

[Quetion12] Write a program in C, C++, Java or Python that **reads the data file** and finds the answers to the following questions:

Update (May/12): We removed commas from the name field in the dataset to make parsing easier.

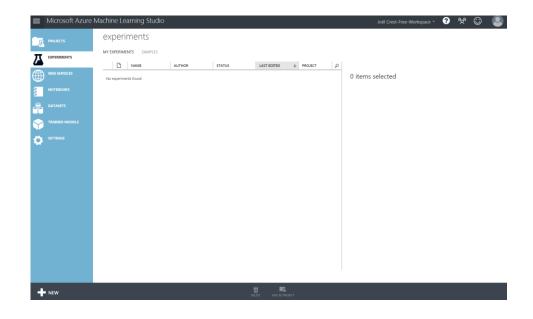
Titanic Dataset





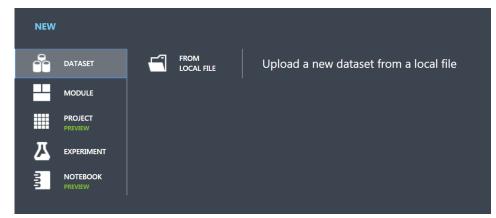
Téléchargez le fichier

https://studio.azureml.net/



New + Dataset

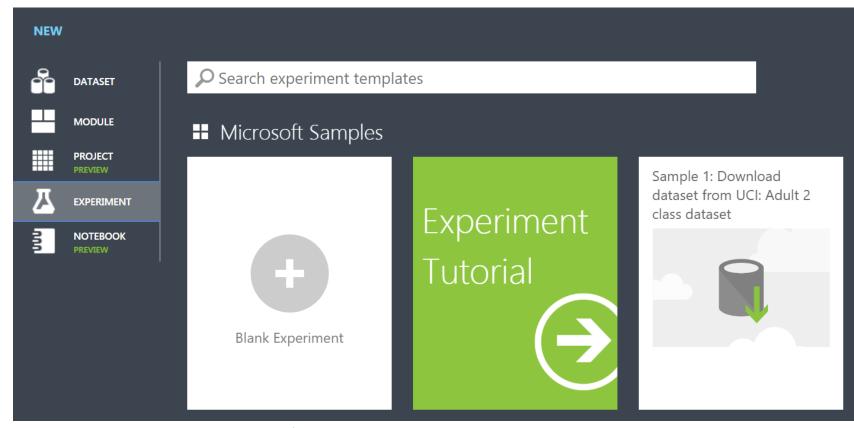




✓ Upload of the dataset 'titanic.csv' has completed.





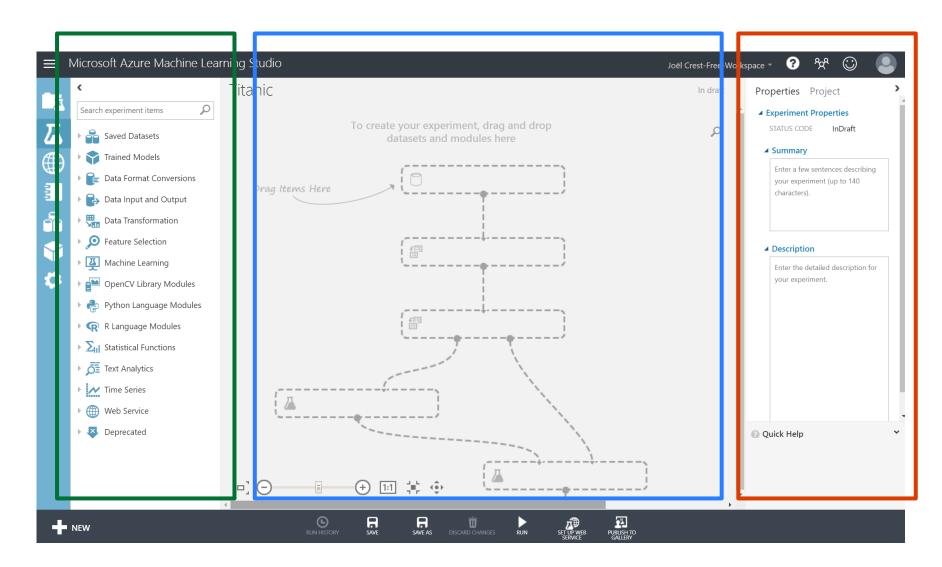


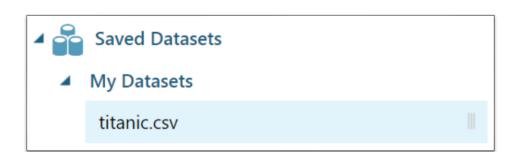


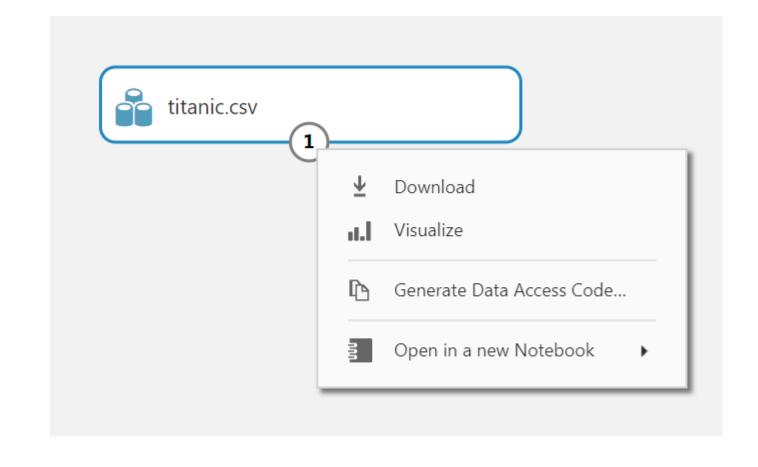
Blank Experiment

Propriétés

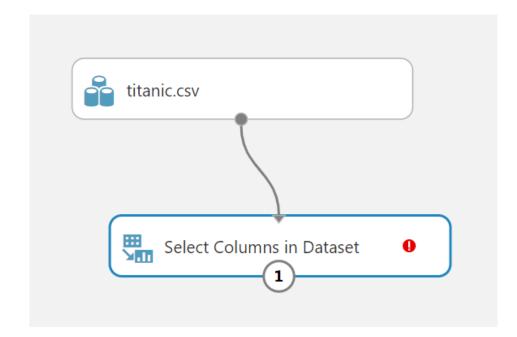
Menu items











Filtrez les colonnes

Properties Project

■ Select Columns in Dataset

Select columns

Selected columns:

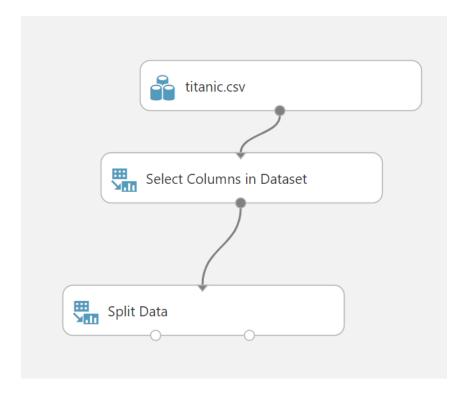
Launch the selector tool to make a selection

Launch column selector

Select columns







Splittez le jeu de données

Properties Project

■ Split Data Splitting mode Split Rows Fraction of rows in the firs... 8.0 Randomized split Random seed 0 Stratified split False





Sélectionnez l'algorithme et entrainez le modèle

▲ Train Model

Label column

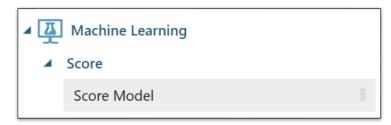
Selected columns:

Launch the selector tool to make a selection

Launch column selector

Select a single column

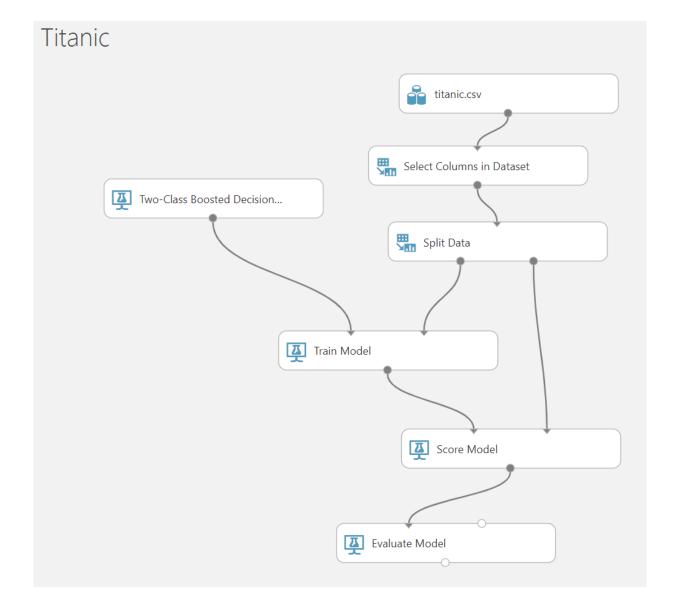




▲ Machine Learning
 Evaluate

Evaluate Model

Scorez puis évaluez votre modèle



Configurez le web service

Predictive Web Service [Recommended]

Retraining Web Service

RUN HISTORY

SAVE

SAVE AS DISCARD CHANGES

RUN

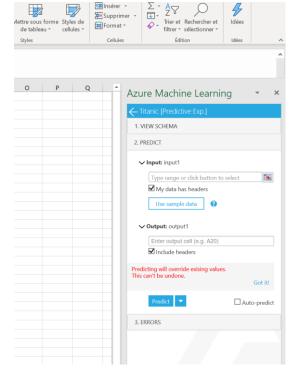
SET UP WEB SET UP WEB

Déployez le web service



Testez le web service dans Excel





Moins de slides, plus de code!

Apportez votre propre laptop. Nous fournissons les **pass AZURE**

> Plusieurs lots à gagne











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9h	Accueil – café, viennoiseries
9h30	Présentation des Communautés aOS, CMD et Club Power BI
10h05	Monitorer efficacement vos ressources Azure et On Prem – Hands On Lab Jean-François BERENGUER
10h50	Pause
11h10	Infrastructure as Code (IAC) : simplifiez vous la vie (et l'IT) Rémy BOVI
12h00	Azure Advanced Threat Protection : sécurisez votre environnement Azure et On Prem Seyfallah TAGREROUT
12h45	Déjeuner
13h30	Azure Machine Learning et Titanic : plutôt #TeamJack ou #TeamRose ? Joël CREST
14h20	Le voyage d'une application en mode DevOps du pipeline d'intégration vers un cluster Kubernetes – Hands On Lab Thomas HIDROT
15h10	Pause
15h30	Stockage hybride dans Azure : étendez vos serveurs de fichiers Windows avec Azure File Sync! Jean-François APREA
16h15	Tirage au sort et remise des lots