

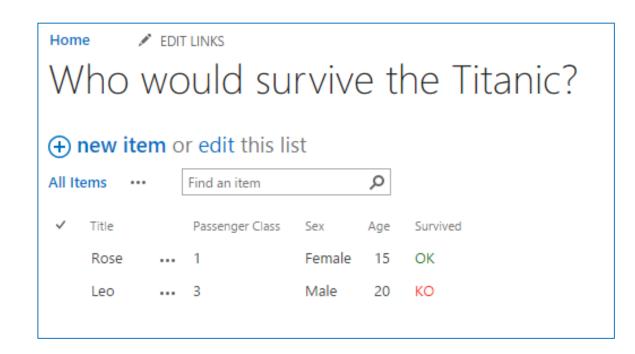


Today's session

 Create a Machine Learning Experiment that predicts who would survive the Titanic

Publish a Web Service

 Consume it using JSLink from SharePoint Online



Creating an AML Experiment

Start with a csv, end building a web service to get predictions

Only a few things before we start

 Azure Machine Learning Studio account <u>https://studio.azureml.net</u>

 Data in csv or another supported format <u>https://www.kaggle.com/c/titanic</u>



No data scientist knowledge required

Prepare the data

- Create the dataset
- · [Optional] Data cleaning
- · Identify and select only relevant columns for the experiment
- Set categorical columns
- Set labels to be predicted



Selecting the algorithm

· What machine learning algorithm should I use? is always "It depends"

 Online resources like the Cheat sheet <u>http://aka.ms/AzureMachineLearningCheatSheet</u>

· Allows also custom code with R or Python

Classification

· Make predictions for categorizable values

Two-Class or Multi-Class



Regression

Exact values predictions

· Sample: Income suggestion



Anomaly detection

· Serves to identify data points that are simply unusual

· Sample: Fraud Detection or Risk Analysis



Clustering

For data categorization

· No input and output data, it just get a data set and

categorize each of them.

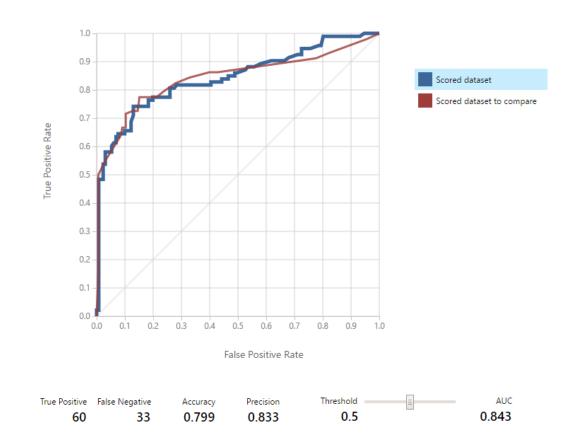


Train, Score & Evaluate

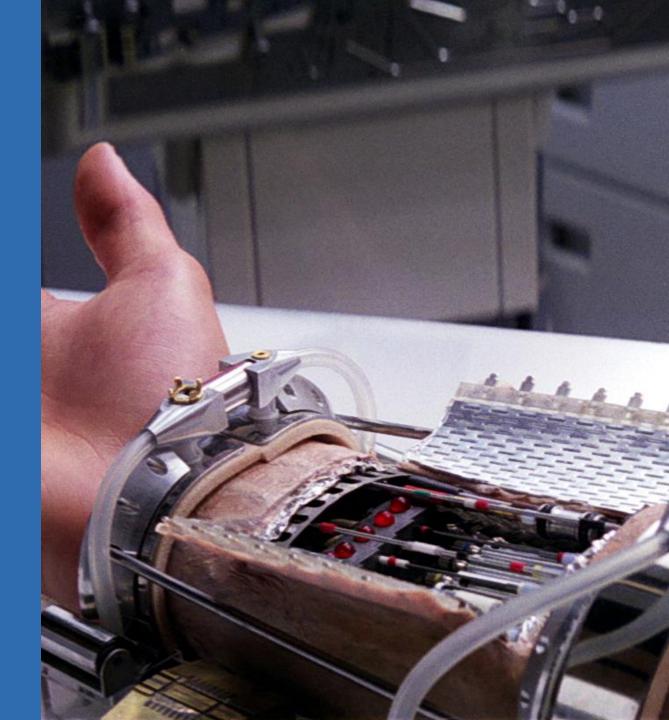
Train different algorithms

Score with splitted data

• Evaluate the scores and choose the best



HANDS ON LAB



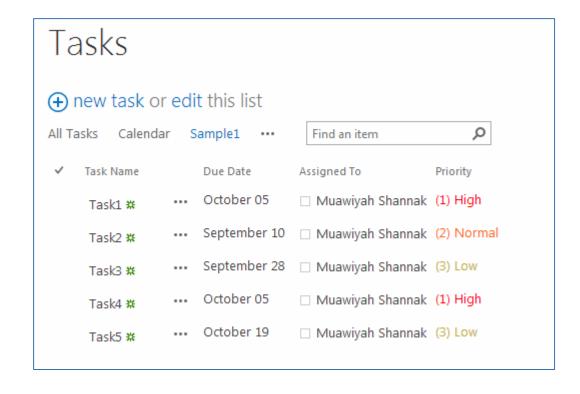
Using JSLink to query AML

JSLink

· Modify column rendering on sharepoint list

· Client Side Code

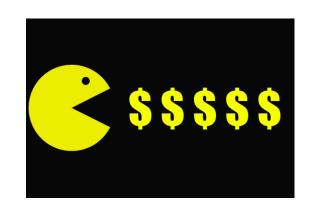
http://bit.ly/1AJVdZc



Calling AML Web Service from JSLink

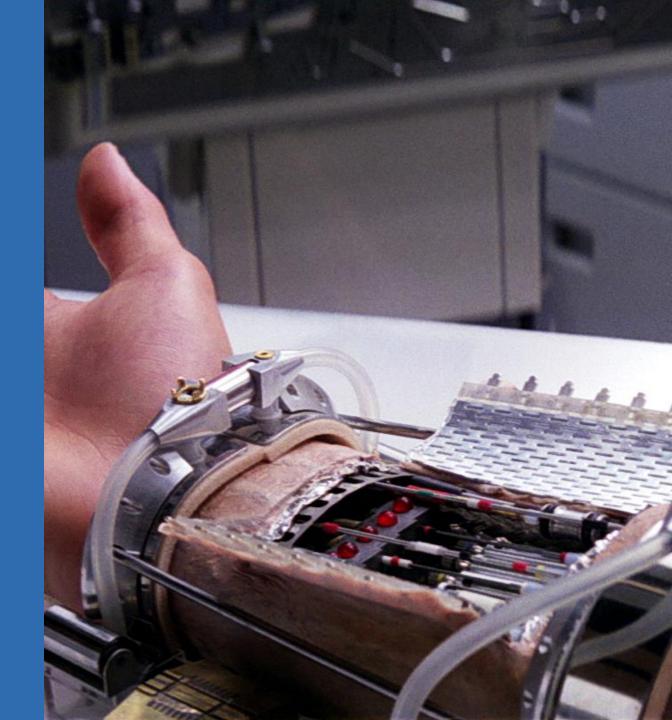


CORS Restricted



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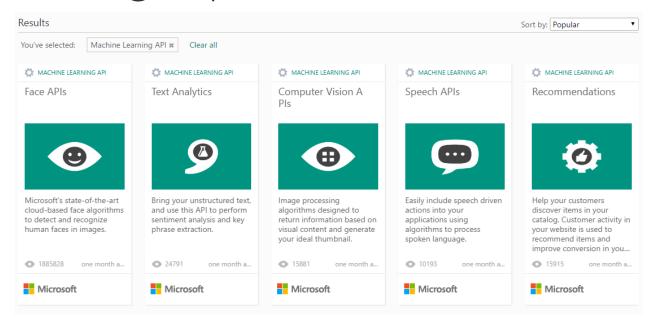
http://bit.ly/1VLwpci



Machine Learning APIs and Azure Marketplace

Machine Learning APIs

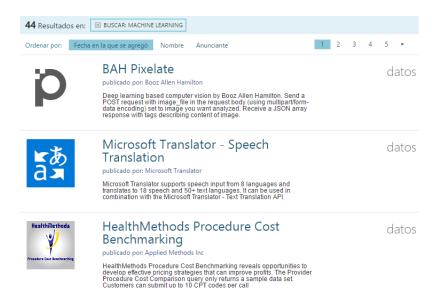
 A collection of consume ready webservices from Microsoft Machine Learning experiments



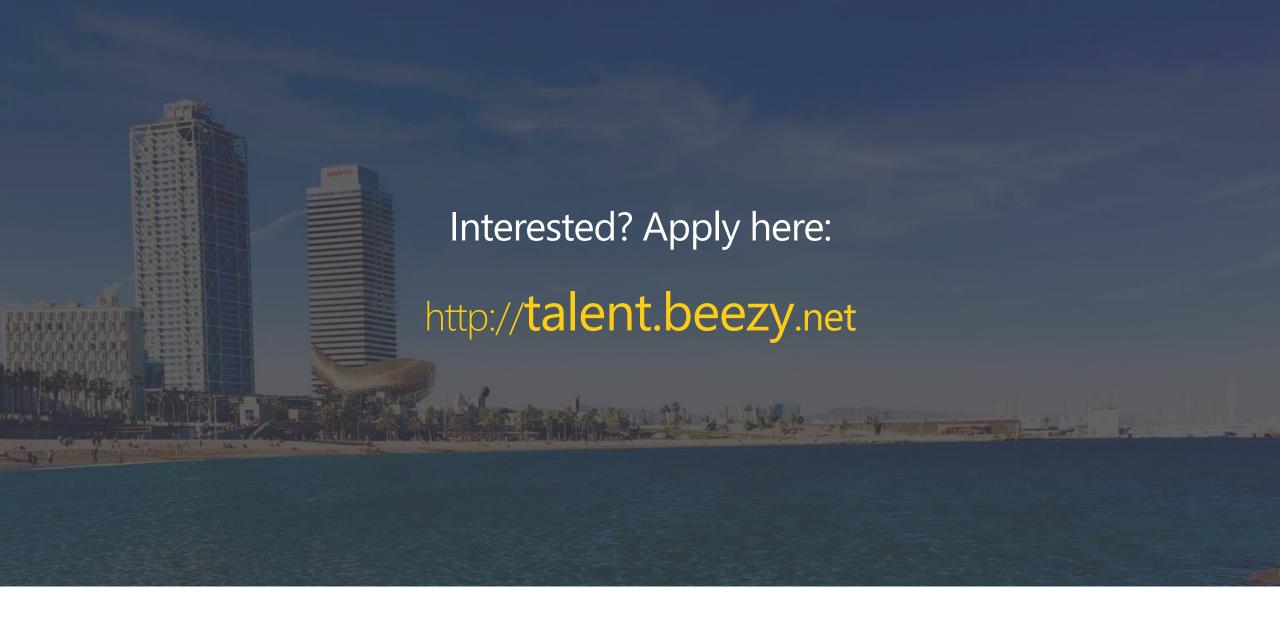
http://gallery.cortanaintelligence.com/machineLearningAPIs

Azure Marketplace

 A collection of consume ready webservices published by particulars or organizations



http://datamarket.azure.com/browse?query=machine%20learning

















Raffle

Please, fill your **SPS Madrid passport** if you want to participate.

You must get signature from sponsors and complete the poll.

Give us the passport at 6:00 PM in the Auditorium room.

You can win one Sphero BB-8 or a mini drone:





Pasaporte / Passport

Si deseas participar en **el sorteo final**, deberás conseguir la firma de nuestros patrocinadores Gold v Silver en sus stands. Una vez que tengas todas las firmas, rellena tu valoración de las sesiones y entrega esta hoja a las 18:00 en la sala Auditorio.

If you want to participate in **the final raffle**, you must get the signature of our Gold and Silver sponsors in their stand. Once you have all the signatures, complete the poll about the sessions and give us this sheet at 6:00 PM in the Auditorium room.



Por favor, puntúa las sesiones en el campo gris con números desde 1 (muy mal) a 10 (gran sesión). «Please, rate sessions in the greyed field with numbers from 1 (too bad) to 10 (great session).

9:30 AM - 10:30 AM	Aplicaciones de Negocio y Movilidad - Lleva tus procesos a tu dispositivo móvil en 5 clics		Office365 Administration with PowerShell and PnP Features		Un SharePoint en la mochila	9	Next Generation Sync Client – The last chance for Microsoft	
10:30 AM - 11:30 AM	Grupos de Office 365 & Planner: Colaboración y productividad empresarial end- to-end	10	A Deep Dive into SharePoint 2016 architecture and deployment		Working with a Supermodel for SharePoint Add- ins		'Unmanaged' Knowledge Management: The future of Intranets	
11:30 AM - 12:30 AM	Skype for Business Cloud PBX		Click here for Disaster! Configuring SharePoint standby farms	8	Desarrollando Add-Ins con Angular 2		Remote provisioning con PnP Framework	
12:30 AM -	Getting SQL		Going hybrid with		Introduction to		Modern	C

Gold sponsors





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Silver sponsors



Bronze sponsors



Collaborate





















