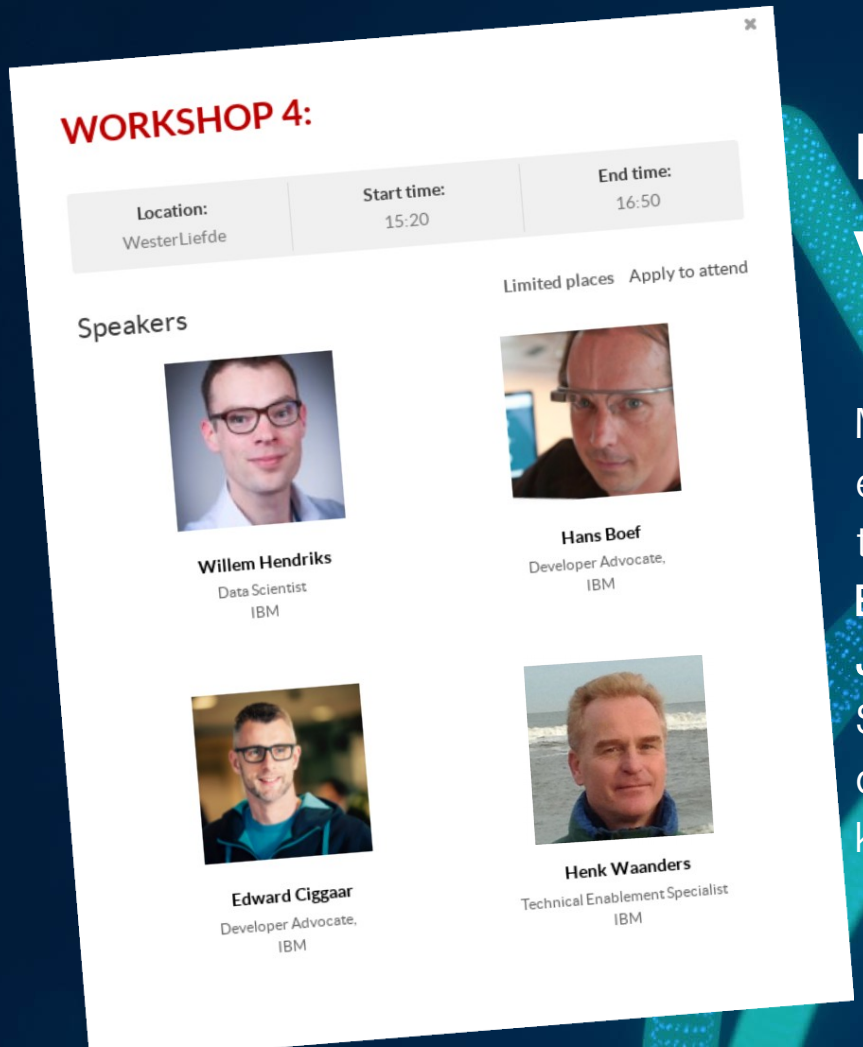


Deploy your models to gain value from insight

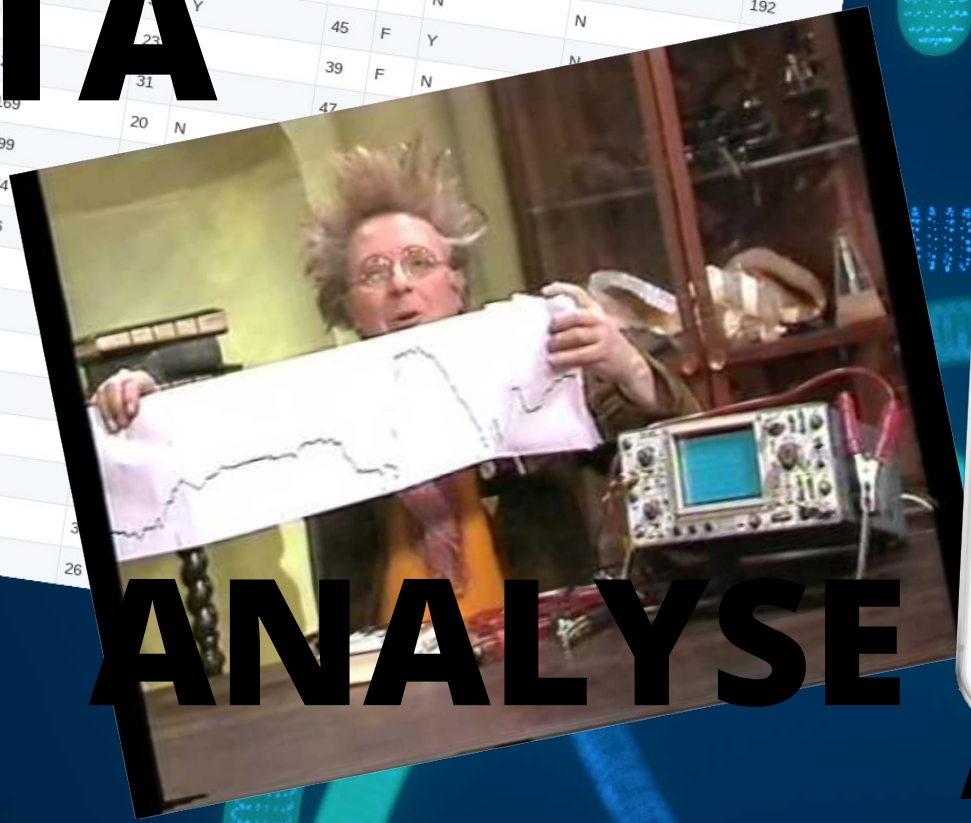
Model deployment is an often overlooked but essential part of your success as a data scientist. In this lab, you will use **IBM's Data Science Experience** to develop a predictive model in a **Jupyter notebook**. You will then deploy the resulting Spark pipeline as a cloud service where access is demonstrated through a simple web interface. Some knowledge of **Python** and **modelling** will help.

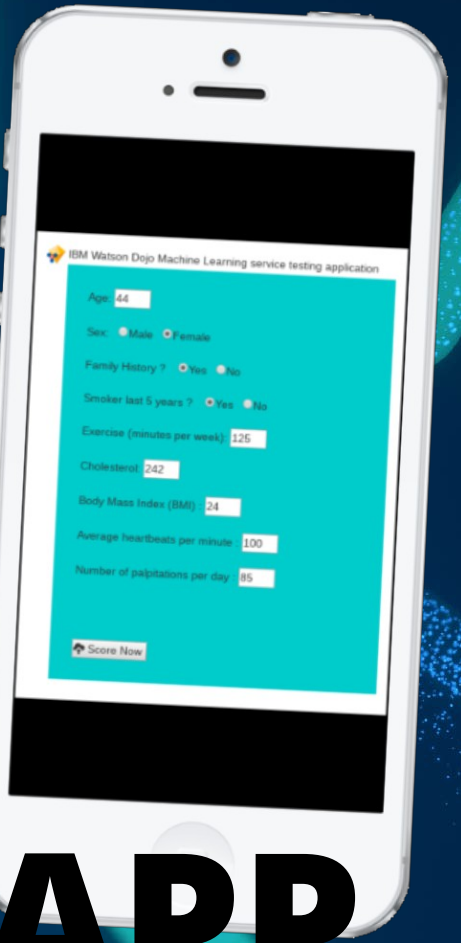
IBM


Your have a beautiful healthy heart!

DATA ANALYSE APP

	HEARTBEATSPERMIN	PALPITATIONSPERDAY	CHOLESTEROL	BMI	HEARTFAILURE	AGE	SEX	FAMILYHISTORY	SMOKERLAST5YRS	EXERCISEM
2	93	22	163	25	N	49	F	N	N	110
3	108	22	181	24	N	32	F	N	N	192
4	86	0	239	20	N	60	F	N	N	
5	80	36			Y	45	F	Y		
6	66	36				39	F	N		
7	125	7								
8	83	27		31						
9	107	31	169	20	N					
	92	28	199							
	84	12	174							
	60	1	206							
	134	7	194							
	103	0	228							
	01	39	237							
		2	157							
		27	169							
		14	234							
		9	155							
			204							





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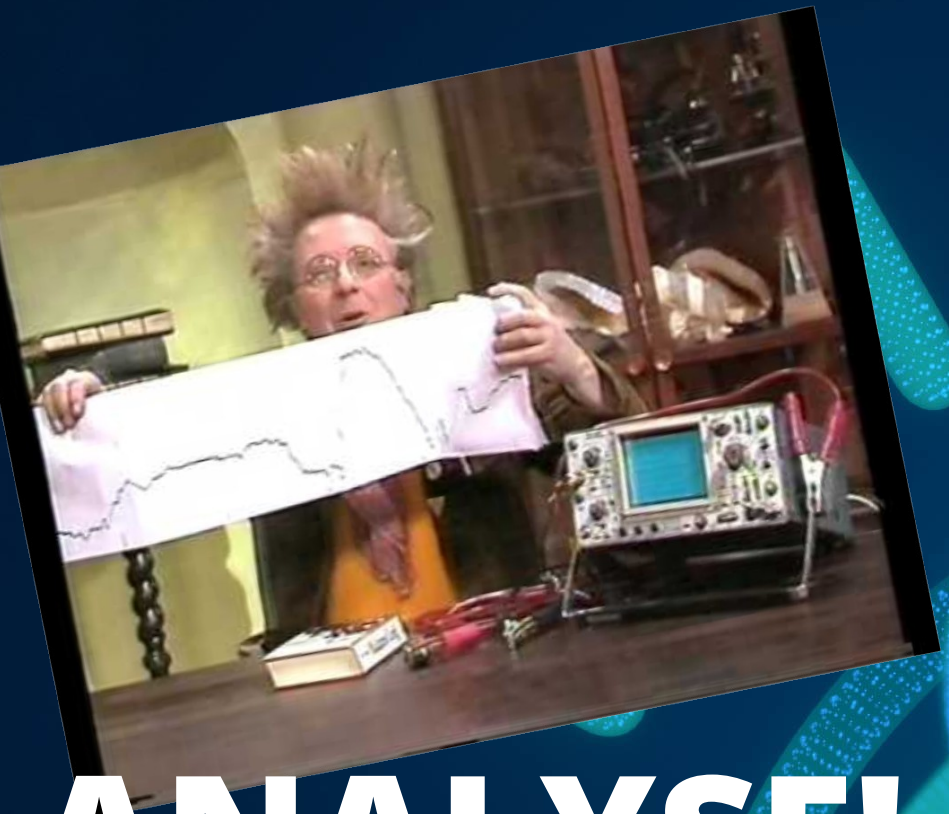


ANALYSE!

DEPLOYMENT...

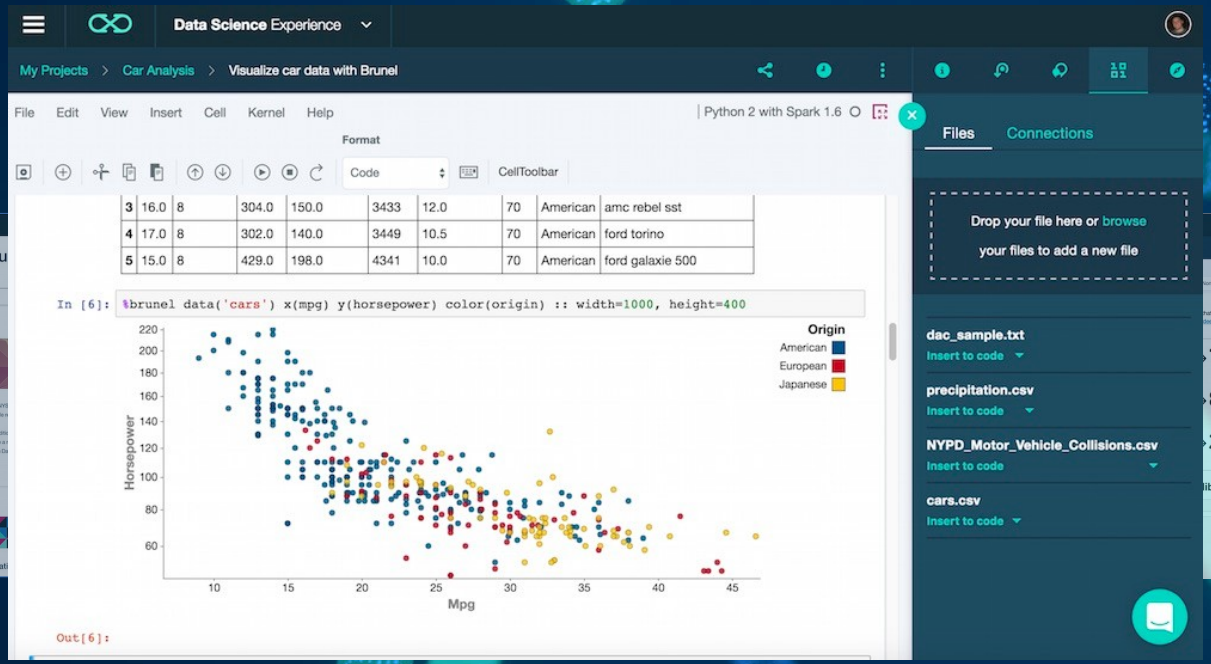
& open-source...

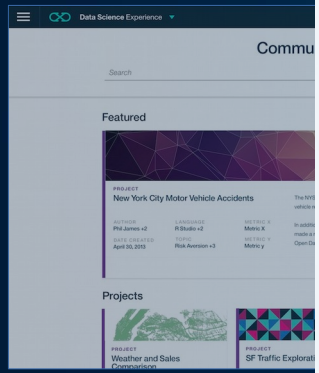
IBM

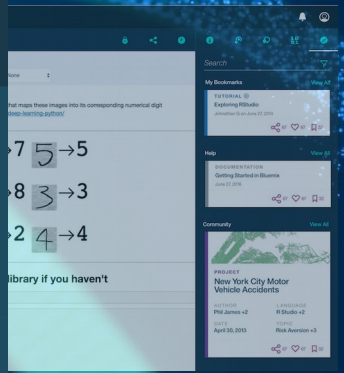
DSX - DEPLOYMENT!

Wrap a Model in a REST API with a single click

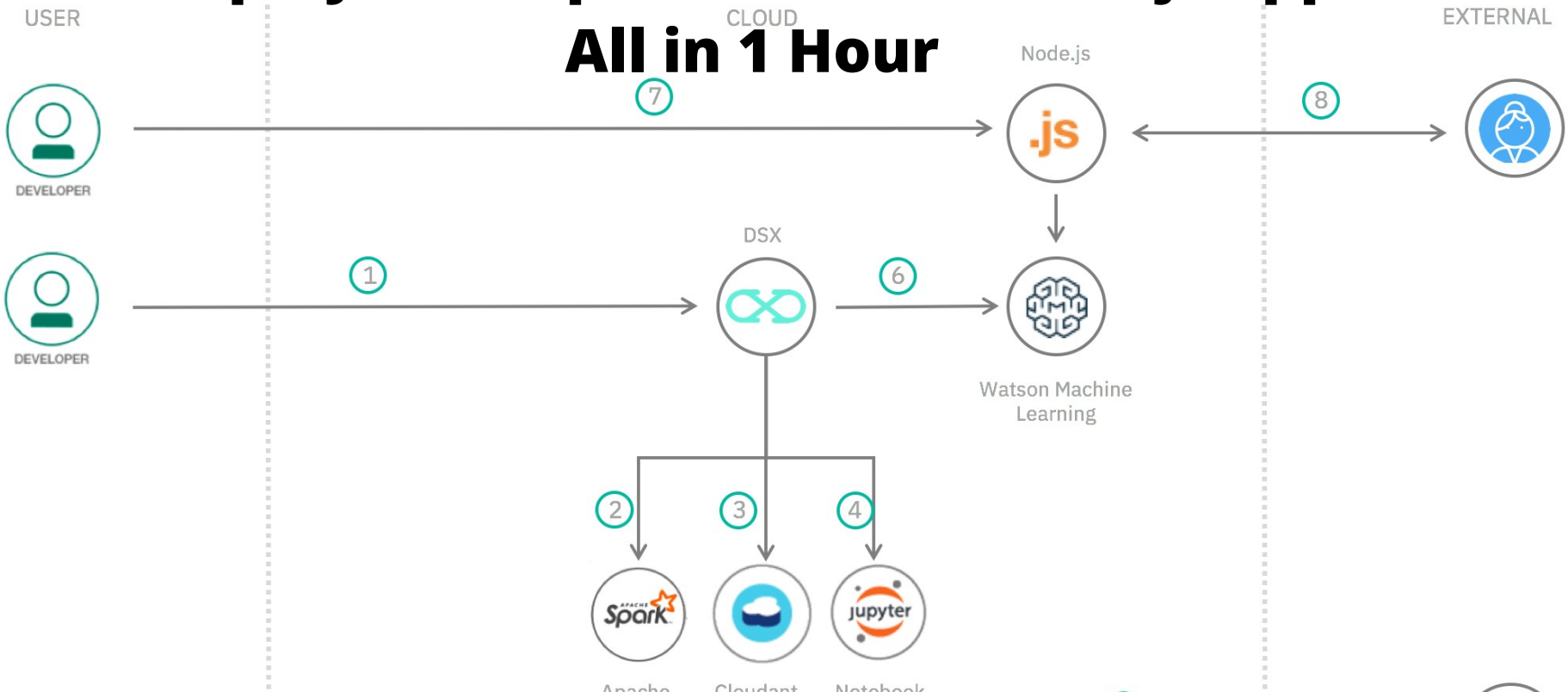
Spark / Python (SKlearn) / SPSS ...

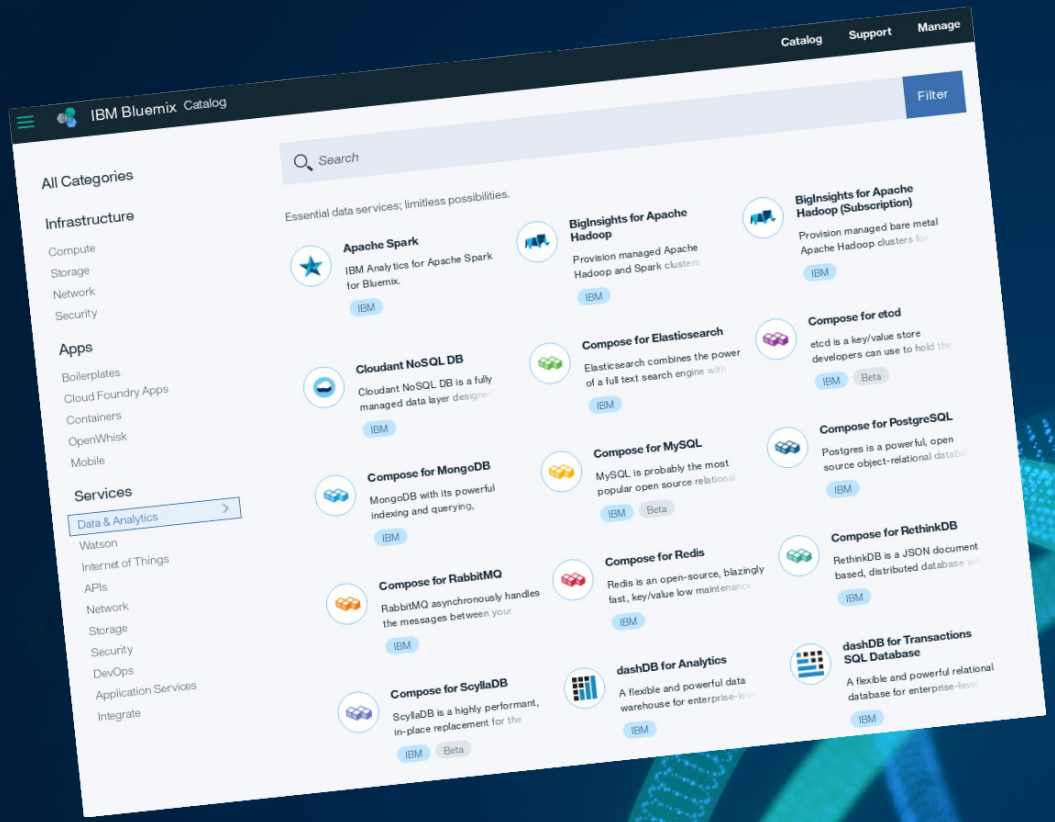






Spawn Clusters & Services
Load Data, Analyse, Create model in Spark
Deploy & Wrap in REST, for Node.js app.
All in 1 Hour





Bluemix

You are a System Administrator

Deploy Services. Leave for a year, and use the next minute. We update it for you!

Today we Create & Connect Services

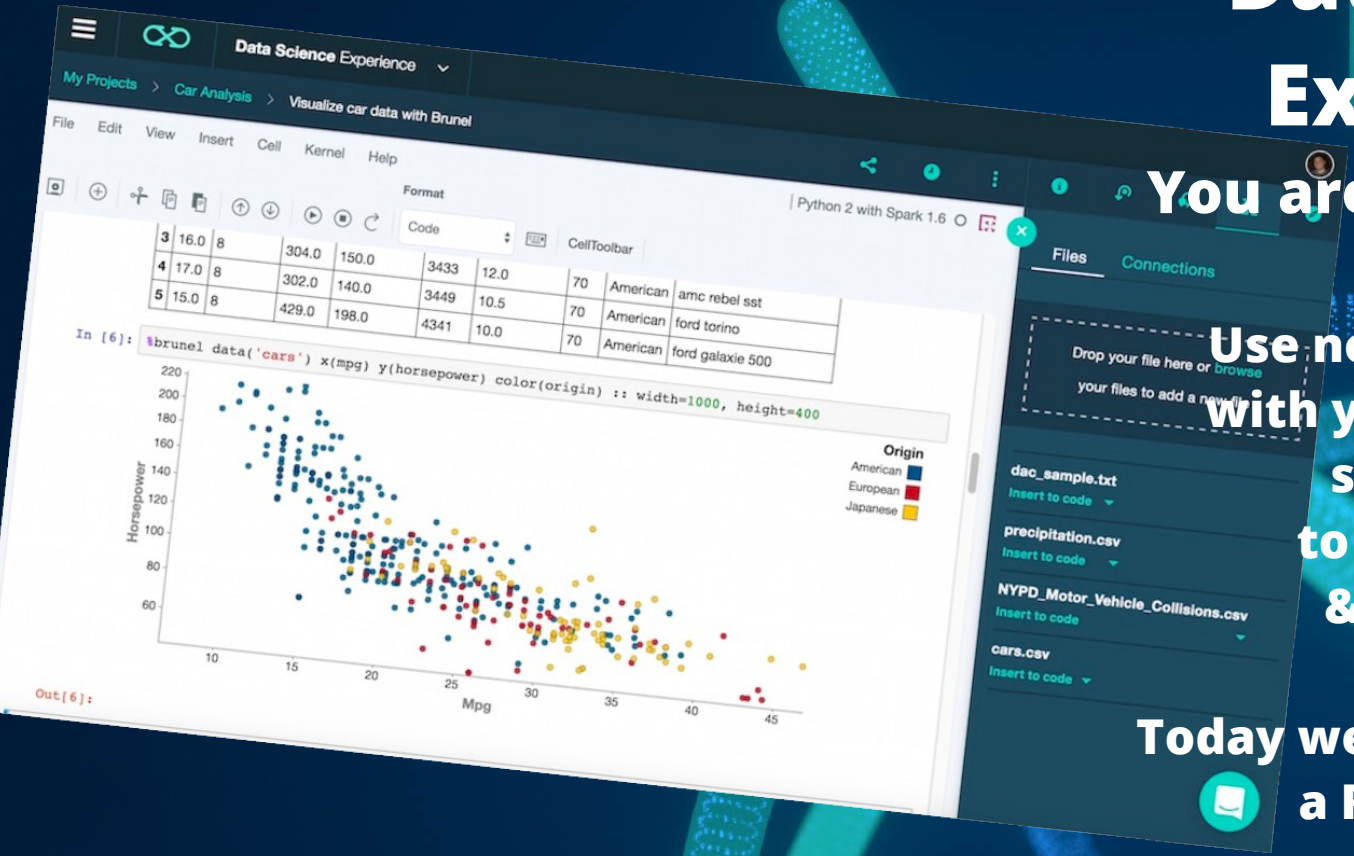
IBM

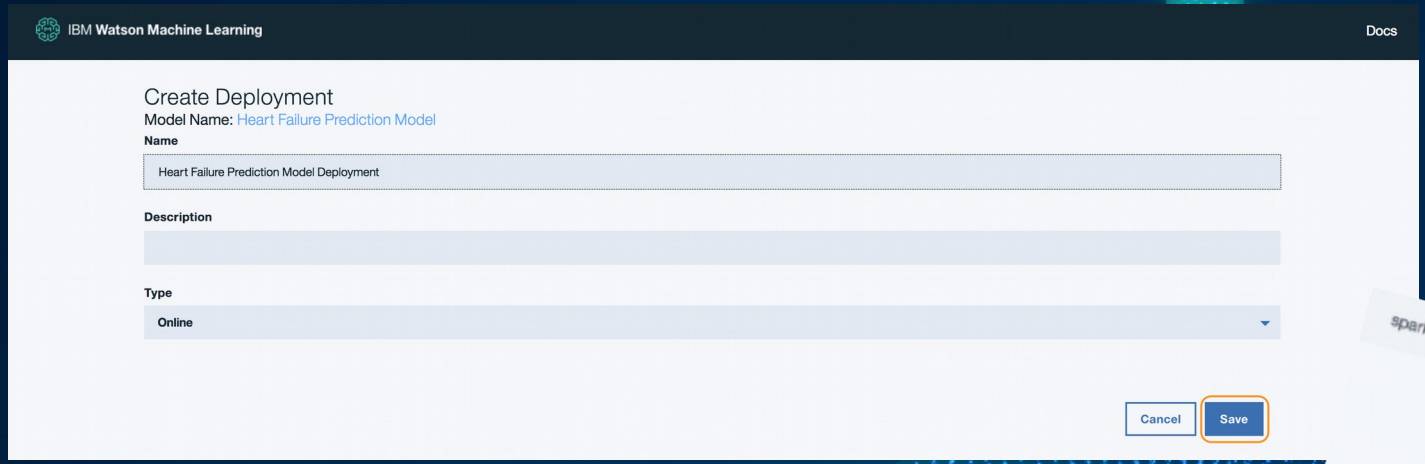
Data Science Experience

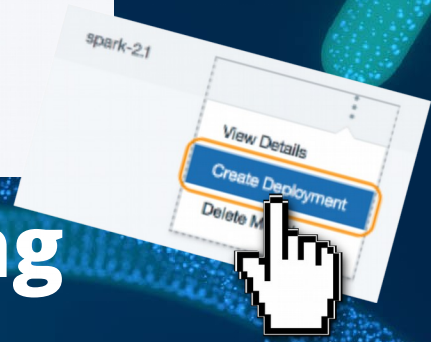
You are a Data Scientist

Use notebooks (Jupyter) with your favorite open-source tooling to Create Models & Deploy them

Today we use Spark, to create a Random-Forest







Watson Machine Learning

The magic button to make your freshly baked model available to any App or Website, through a REST API

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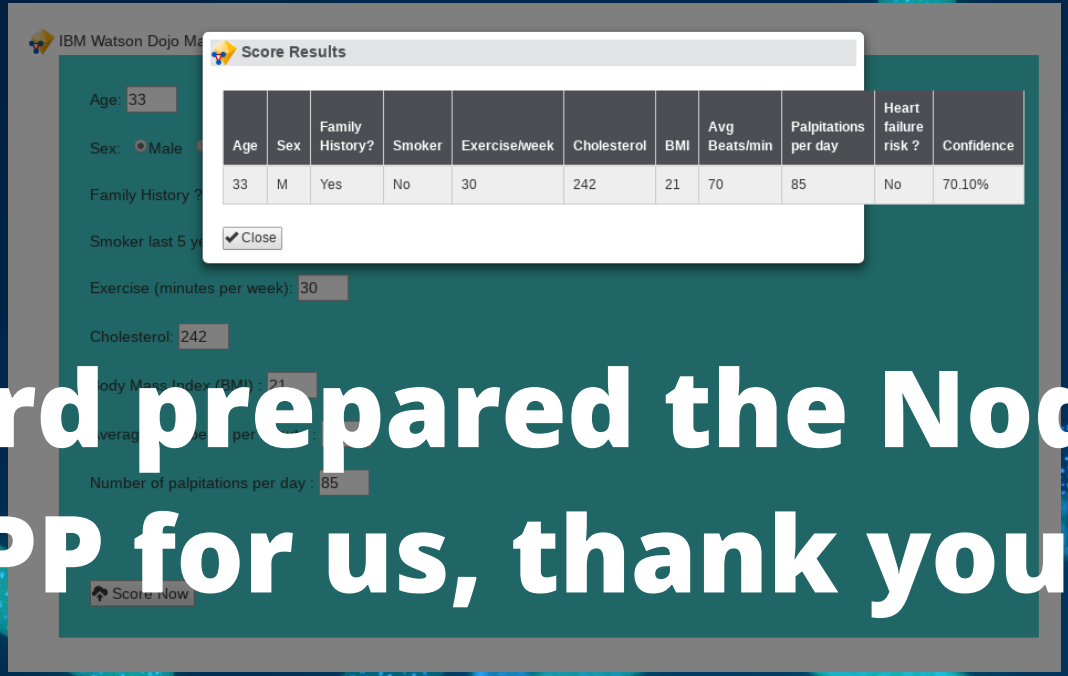
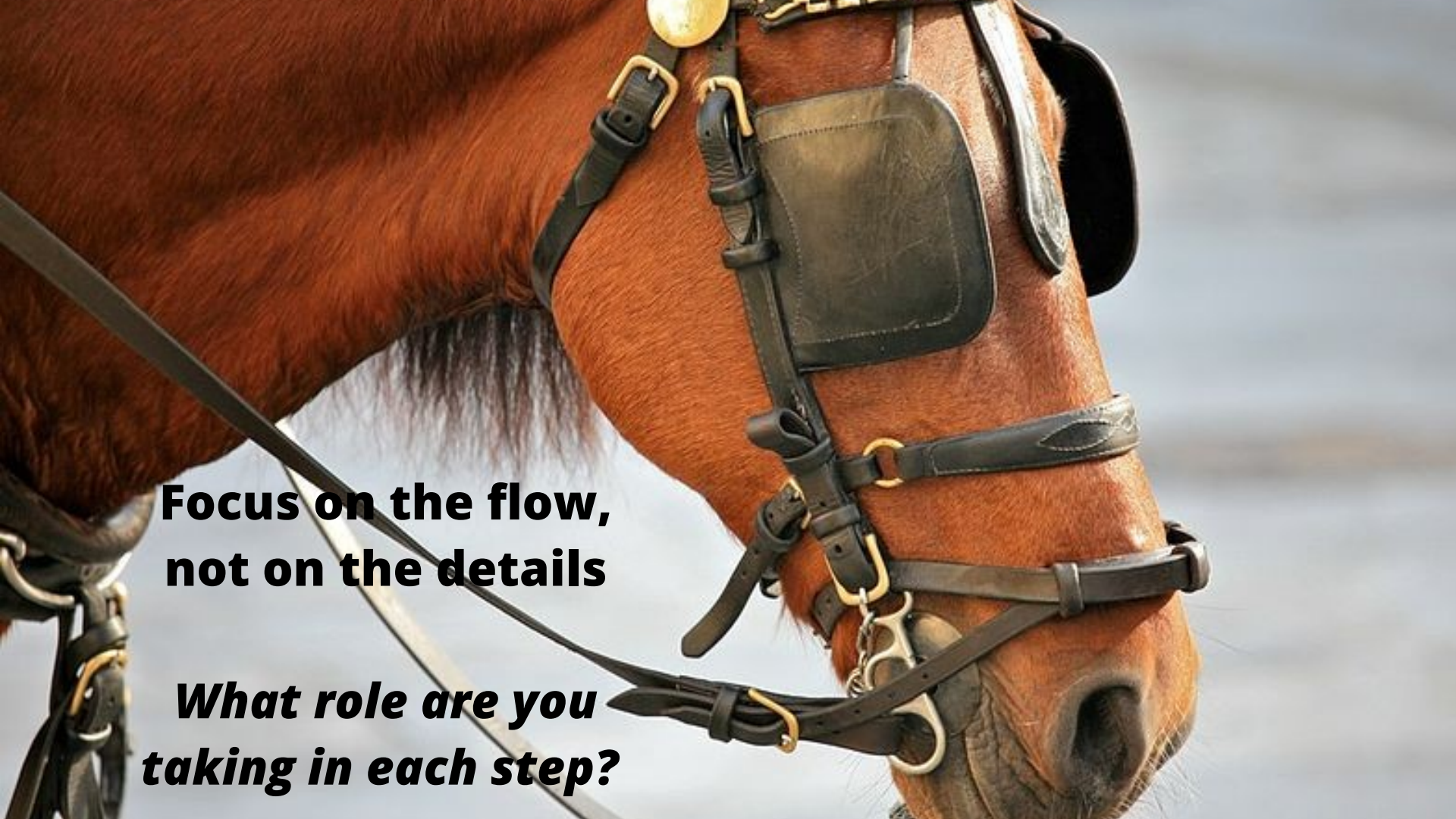


Edward prepared the Node.JS APP for us, thank you!

I have No Heart failure, with 70% Confidence...

IBM


Focus on the flow,
not on the details
What role are you
taking in each step?

Flow

http://ibm.biz/summitai