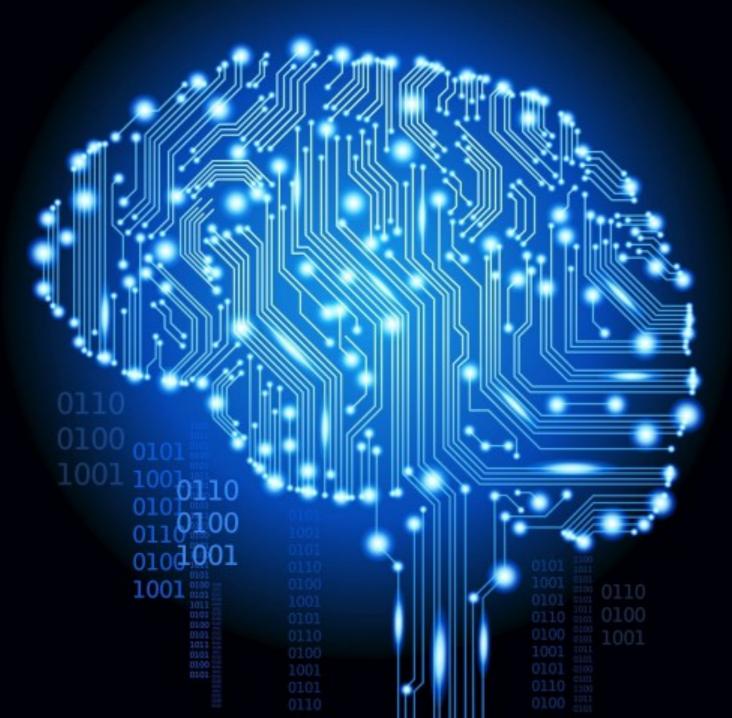
3 Strategies

for Business Innovation

with
Sentiment
Analysis (ML)

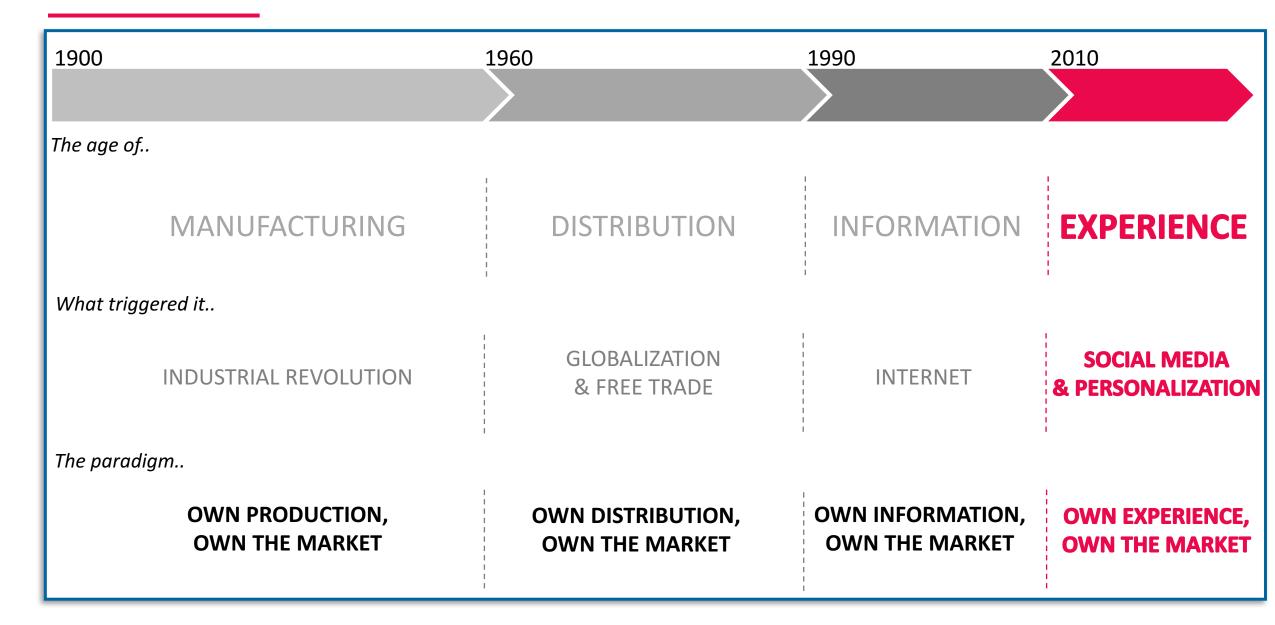
Cloud Days 2018, Luzern

Rahul Ramachandran, PMP®, MBA
Amancio Bouza, PhD, ipt, Innovation Process Technology AG

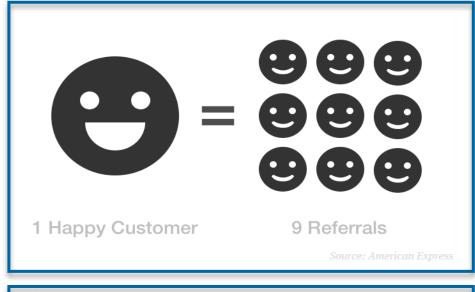


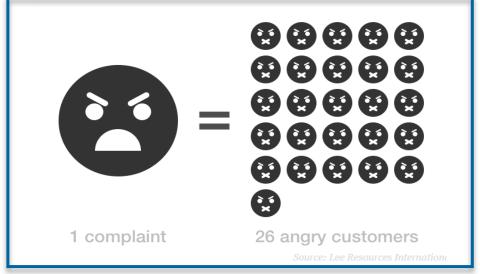
The Challenge..

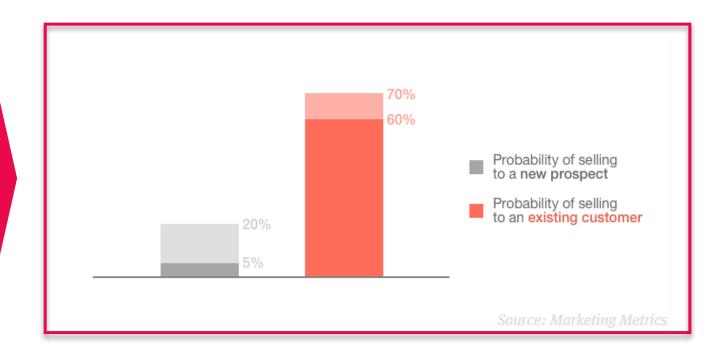
There has been a paradigm shift across industries



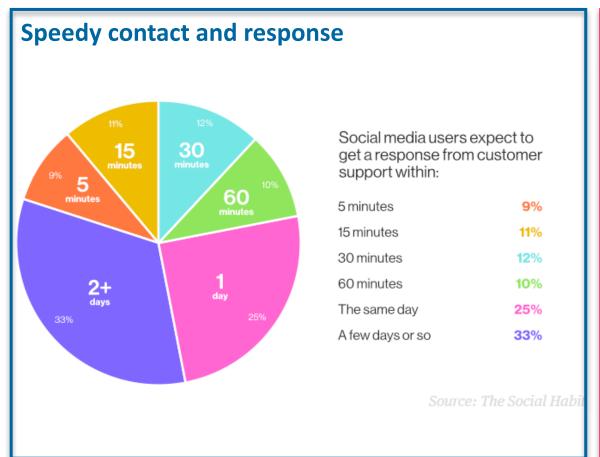
This is no rocket science – Happy customers return and refer..

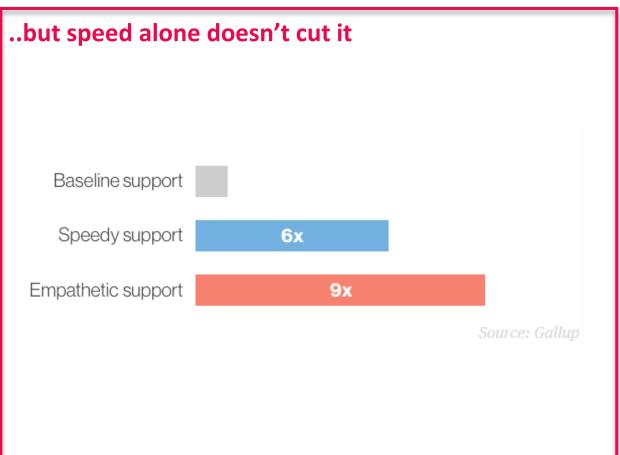






..and what are today's customers expecting



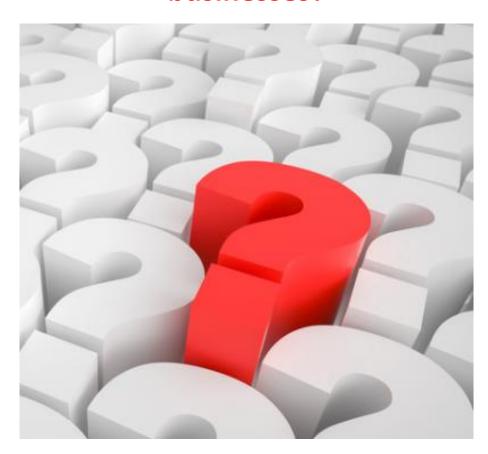


So we want to respond, but...

"Customer Experience" is EVERYTHING



What is the biggest challenge for businesses?

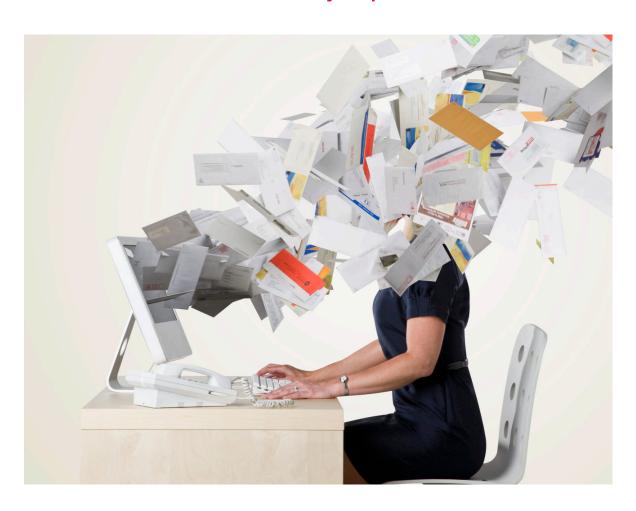


So we want to respond, but..

"Customer Experience" is EVERYTHING



Too many inputs



..and too many platforms to read from

"Customer Experience" is EVERYTHING

Need to leverage

Too many feedback platforms







The Opportunity...

In every challenge lies an OPPORTUNITY



Business Potential

Customer Retention

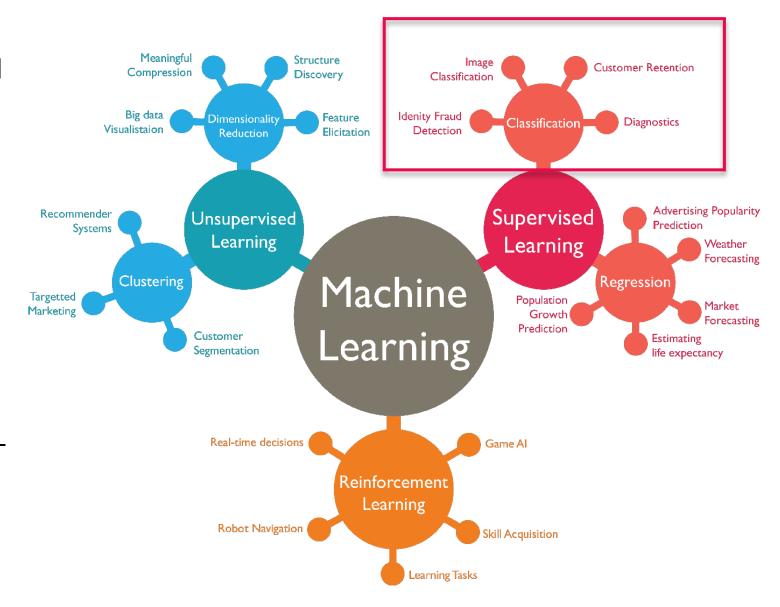
Product Development

Competition Analysis

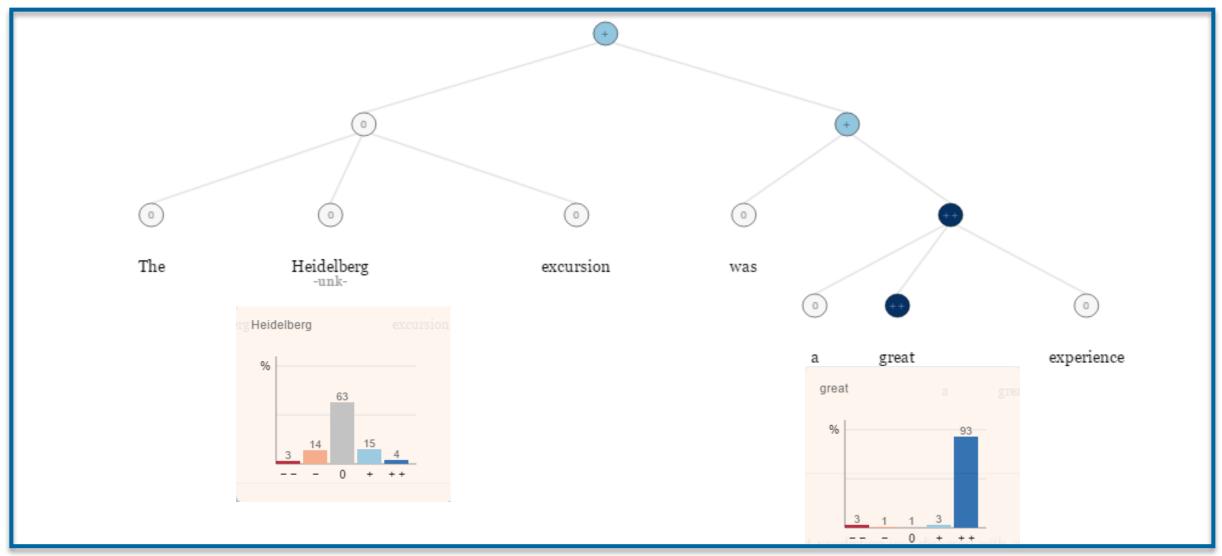
To harness the potential – BIG Data & Machine Learning (ML)

 Machine learning is the subfield of computer science that gives computers the ability to learn without being explicitly programmed (Arthur Samuel, 1959). ...

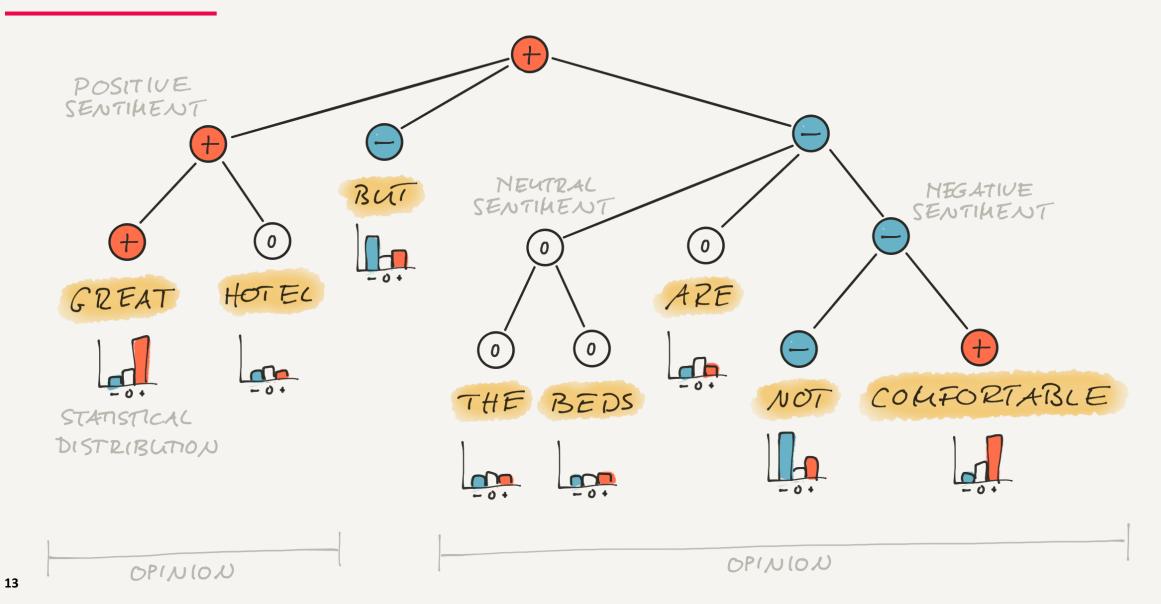
 Machine learning is closely related to (and often overlaps with) computational statistics, which also focuses in predictionmaking through the use of computers.



Machines are now able to process natural human language and also derive the human sentiment within



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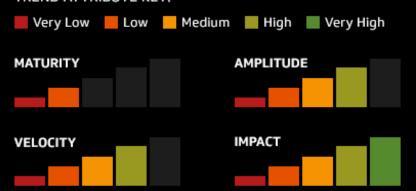


Natural Language Processing (NLP) is very a HOT topic

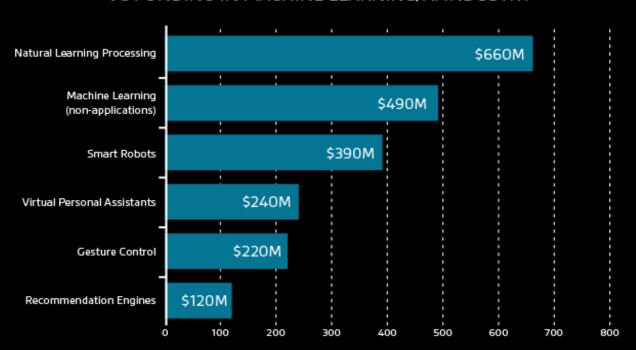
MACHINE LEARNING in 2017

One facet of machine learning receiving ample attention is natural language processing (NLP), a technology used to parse through audio- and print-based communications to derive insights into consumer intent. NLP will be especially important in marketing, as it can be leveraged to track user sentiment on social media and deliver more targeted advertisements based on voice search queries.

TREND ATTRIBUTE KEY:

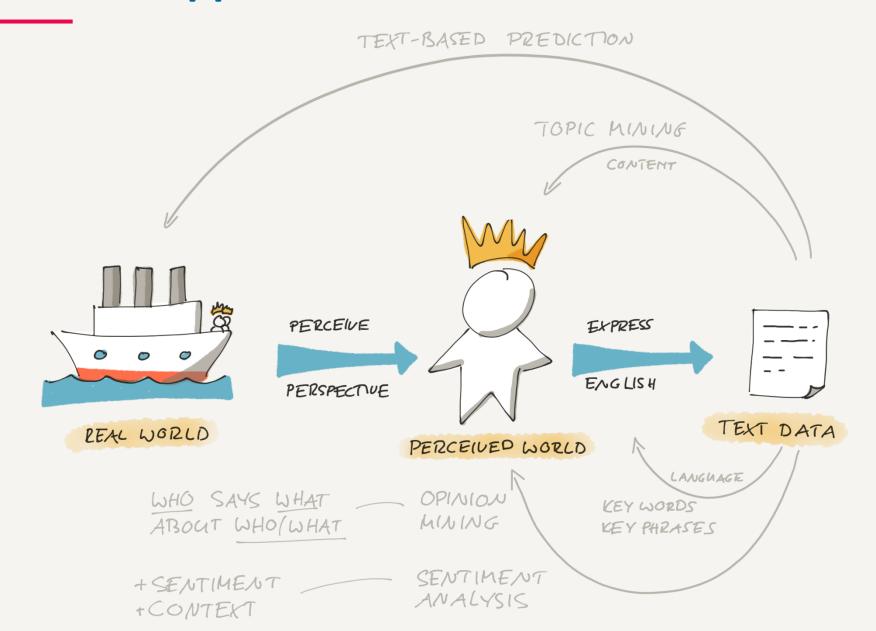


VC FUNDING IN MACHINE LEARNING/AI INDUSTRY

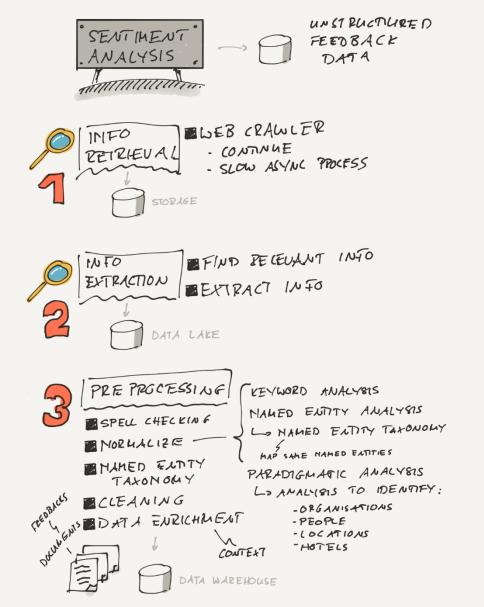


© Centric Digital LLC 2017 Data Source: Statista 2016

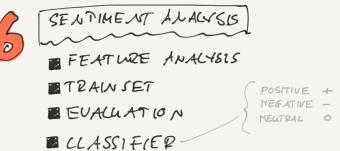
So how did we approach it...



So how did we approach it..







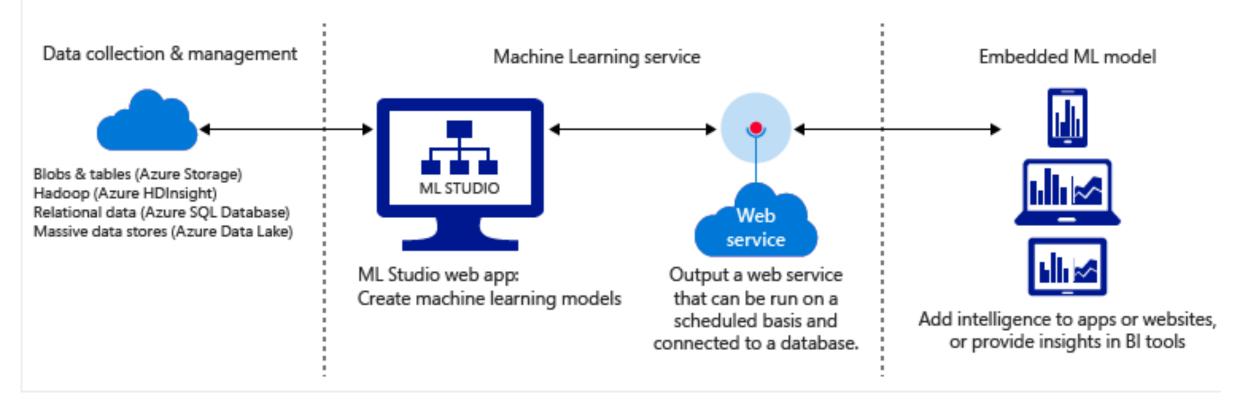




...using Microsoft's Azure ML and Cognitive Services

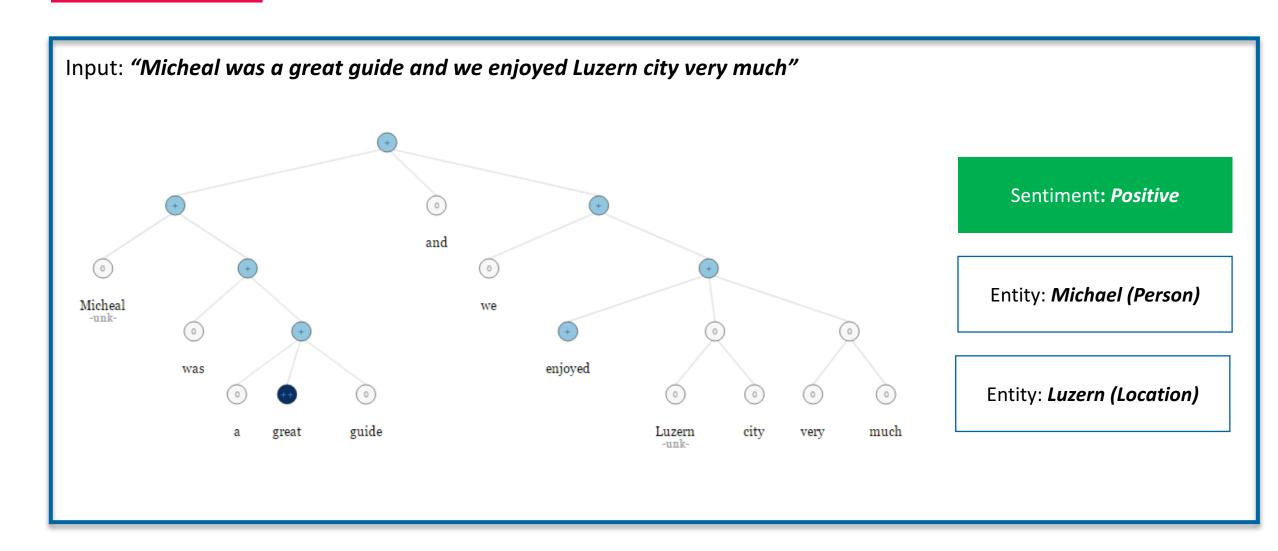
Azure Machine Learning: Basic workflow

Build models from data and operationalize a machine learning solution



Wrapping up – What we achieved..

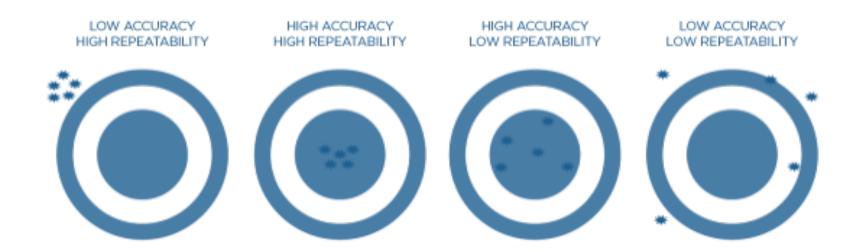
A detailed analysis of our customer feedback



In our initial POC, we received a high accuracy

79% accuracy 75% precision

73% recall



"Word cloud" on which location are being talked about



Enables business to:

- Quickly focus on the "most" talked locations
- Setup effective communication to resolve most issues
- React FAST
- Incorporate feedback to Product Development
- Understand what your market peers are doing right

Contact



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famous for integration