

Facts about DR Koncerthuset

Celebrating 10 year anniversary next year

One Concerthal and four Studios

Home to the DR SymfoniOrkestret

Part of DR (Danish national broadcast)

Increasing number of events and guest every year











The journey from a CRM perspective

From:

No CRM system

No email system

No tracking

To:

Integrated CRM system

Customizing email flows

Tracking

Increase in respons and ROI



So where are we now?

Personalized flows:

Purchase flow

Permissions flow

Subscriptions flow

Segmented newsletters:

Genre specific newsletter

based on transactions and Customer profile





The future – where do we want to go?

Challenge:

High variation of events and customers

Staying relevant

Keep increasing response and engagement

Solution:

Increasing development of data insight with

ONE Prediction

Personalized communication

Customer specific trigger based dialogue

Enrichment of customer data



Personalization on SOME



Personalization of website



Tracking of customer behavior in all channels



Personalization of emails





The Beginning

Examine how AI and Machine Learning could help our Customers to

move to the next level of Marketing Automation

- **Develop Ideas and Concepts**
- Pilot Project with DR Koncerthuset



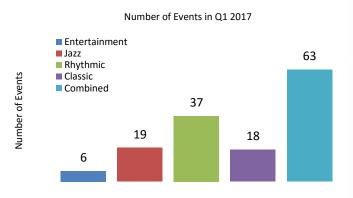




Proof - of - Concept

Training Data: Ticketsales until 31th of December 2016

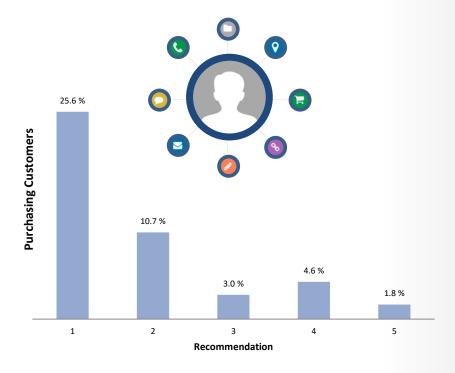
Test Data: Ticket Sales first Quarter 2017





Modelling with traditional 360° data



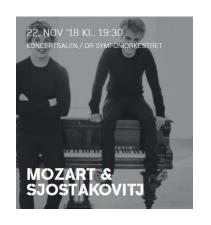


Total = 44% of Sales in Top 5



Modelling with traditional 360° data

Problem to solve!



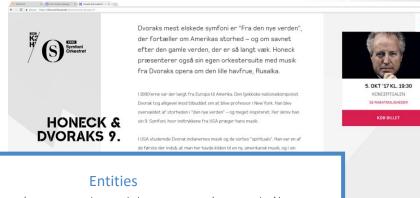




What is the difference in numbers?



Converting Concert Descriptions to Model Features



Concept

text	relevance		
Antonin Dworak	0.983279		
Opera	0.839302		
Ludwig van Beethoven	0.80742		
Robert Schumann	0.712243		
Orchestra	0.680637		
Richard Strauss	0.632603		
The Little Mermaid	0.626565		
United States	0.621617		

Keywords

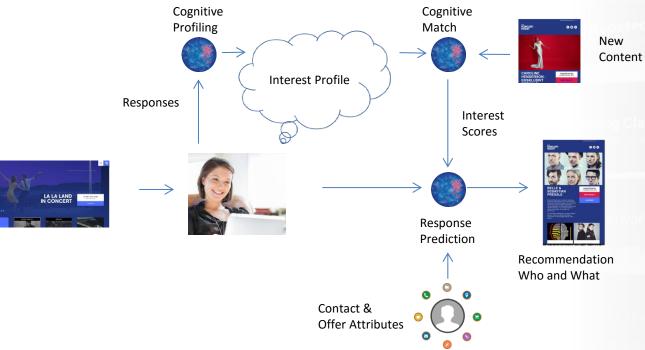
•	
text	relevance
Dvorak	0.996308
national composer Dvorak	0.988984
Dvorak Indian music	0.962081
Czech Republic Dvorak	0.917939
New World	0.872941
little mermaid	0.72503
Dvorak arr	0.706953
conductor Manfred Honeck	0.665803
orchestra suite	0.653769
Paul Armin Edelmann	0.637542
new American music	0.628229
Rusalka	0.601916
opera Rusalka	0.587098
Rusalka Suiten	0.575687
Rusalka Suite	0.566171
symphony	0.522825

type	text	relevance cour	nt subtype
Person	Republic Dvorak	0.876686	8
Person	Manfred Honeck	0.412633	4 Conductor
Location	Rusalka	0.294402	1 City
Person	Rusalka Suiten	0.273734	1
Company	HONECK	0.209563	1
Person	Lieder	0.187827	2
Location	America	0.186761	2 Continent
Person	Paul Armin Edelmann	0.1852	1
Location	New York	0.181561	1 PoliticalDistrict
Location	USA	0.171053	2 Region
Person	Richard Strauss	0.162737	1 Composer
Person	Schubert	0.15137	1
Location	Europe	0.148789	1 Continent
JobTitle	professor	0.142384	1
Person	Rusalkas	0.136238	1
Location	Denmark	0.128297	1 Country





Cognitive Matching

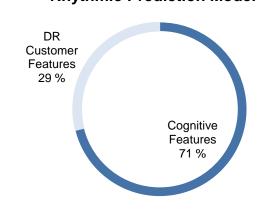




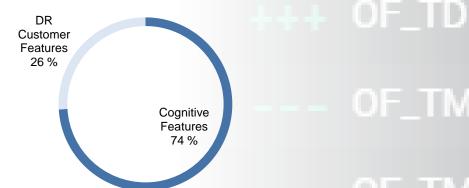
Cognitive Feature Impact on Models

REASONS



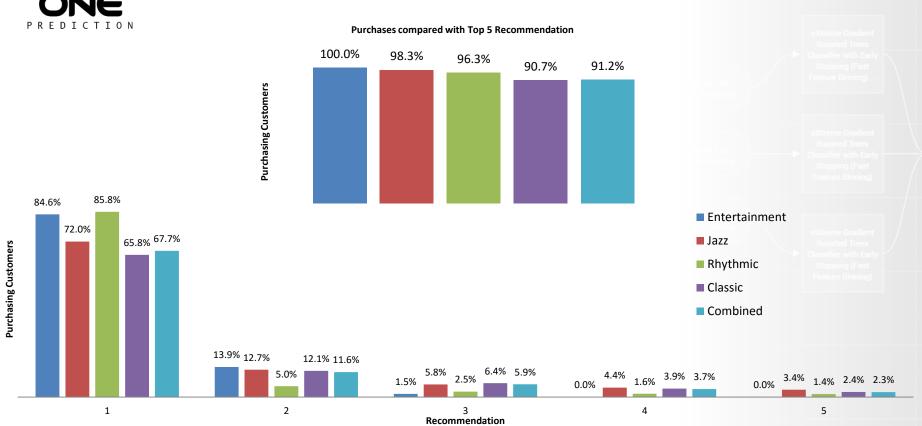


Classic Prediction Model





Including Cognitive Data in Models



Test Classic Newsletter





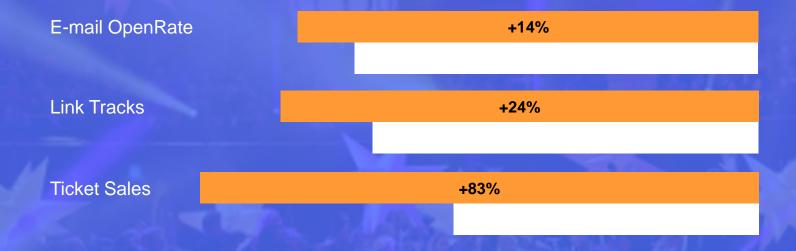


Test Classic Newsletter – Final Improved Model





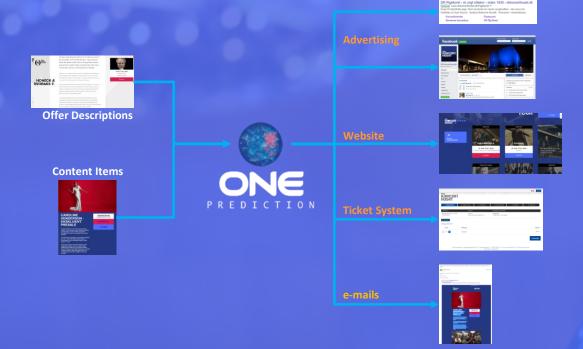
Test Generic versus Personalized e-mails







Planned Implementation









Solution Roadmap

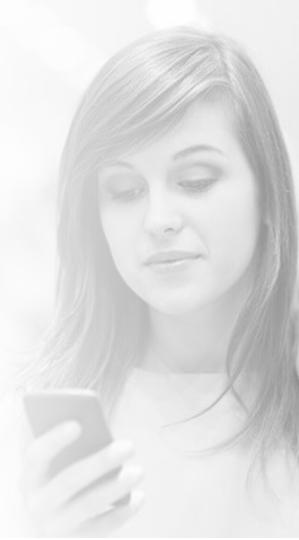
Automated Content Personalization

Cognitive Profiling
Cognitive Content Matching
Response Prediction



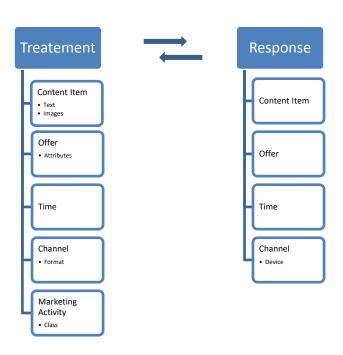
Automated Treatement Personalization

Response Behaviour Profiling Marketing Activity Impact Prediction Personal Customer Journey Optimization





The Right Data is Key to Success





Questions?

