Modern Marketing with Oracle Analytics Cloud and Oracle ADW

Ray Owens – CEO & Founder, DX Marketing

Dan Vlamis – President, Vlamis Software Solutions

Tim Vlamis – VP, Vlamis Software Solutions

Sep 17th 2019 1:45 pm #BUS4162



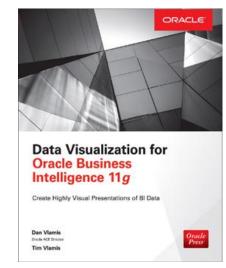
Vlamis Software Solutions

- Vlamis Software founded in 1992 in Kansas City, Missouri
- Developed 200+ Oracle BI and analytics systems
- Specializes in Oracle-based:
 - Enterprise Business Intelligence & Analytics
 - Analytic Warehousing
 - Machine Learning & Predictive Analytics
 - Data Visualization
- Multiple Oracle ACEs, consultants average 15+ years
- www.vlamis.com (blog, papers, newsletters, services)
- Co-authors of book "Data Visualization for OBI"
- Co-author of book "Oracle Essbase & Oracle OLAP"
- Oracle University Reseller
- Oracle Gold Partner



Foundation Suite 11g

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Come Join Other Vlamis Presentations

All Analytics, All Data: No Nonsense

Monday Sep 16th, 9:00 am

Dan Vlamis, Shyam Varan Nath, Charlie Berger

The Analytics of Happiness

Monday Sep 16th, 10:00 am

Dan Vlamis, Cathye Pendley, Doug Schieder

Oracle Analytics Cloud in the Bright Lights of Las Vegas

Monday Sep 16th, 1:45 pm

Raghav Venkat, Dan Vlamis

Modern Marketing with Oracle Analytics Cloud and ADW

Tuesday Sep 17th, 1:45 pm

Dan Vlamis, Shyam Varan Nath, Charlie Berger

Billboards to Dashboards: How OUTFRONT Media is Using OAC to Analyze Marketing

Tuesday Sep 17th, 5:15 pm

Derek Hayden, Scott Searcy, Tim Vlamis

What Do We Do?

THE DXM PLATFORM - XactAudience®

Five ways data is used to inform marketing decisions

DXM provides growing companies affordable access to enterprise level data and analytics so they can make marketing investments with greater confidence and compete more effectively.

We use these enterprise level tools to level the playing field for the small & medium business (SMB) space against larger competitors.



DX Marketing supports multiple agencies and brands



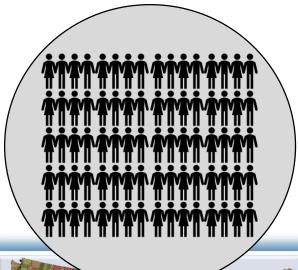
Platform integration starts with three key pillars

ORACLE°
Cloud Infrastructure

ORACLE

Autonomous Database

Oracle Advanced Analytics for Modeling and Prospecting





ORACLE®

Data Cloud

Identity Graph/OnRamp



90% of Online Identities

ORACLE

Data Cloud

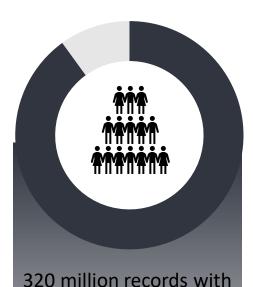
Data Management Platform



Billions of Data Points

Prodigious data flow from ADW, Oracle Data Cloud and Media Partners

US Consumer Data



over 3,000 variables

Client Data



Client CRM data for profiles and analyses **Predictive Models**



Custom predictive models: Look-alikes

Campaign & Responder Data

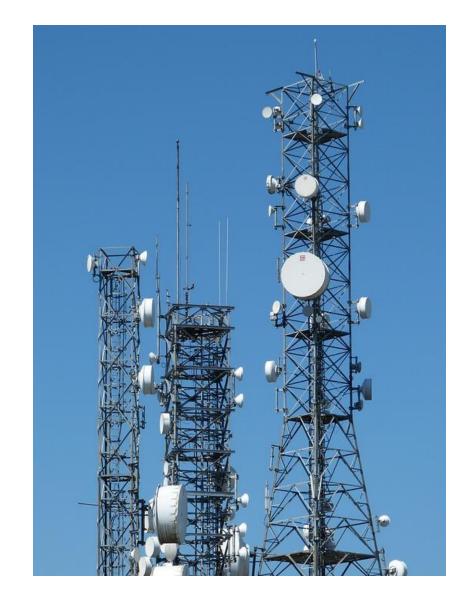


KPI's and analyses from client transactional data and campaign logs

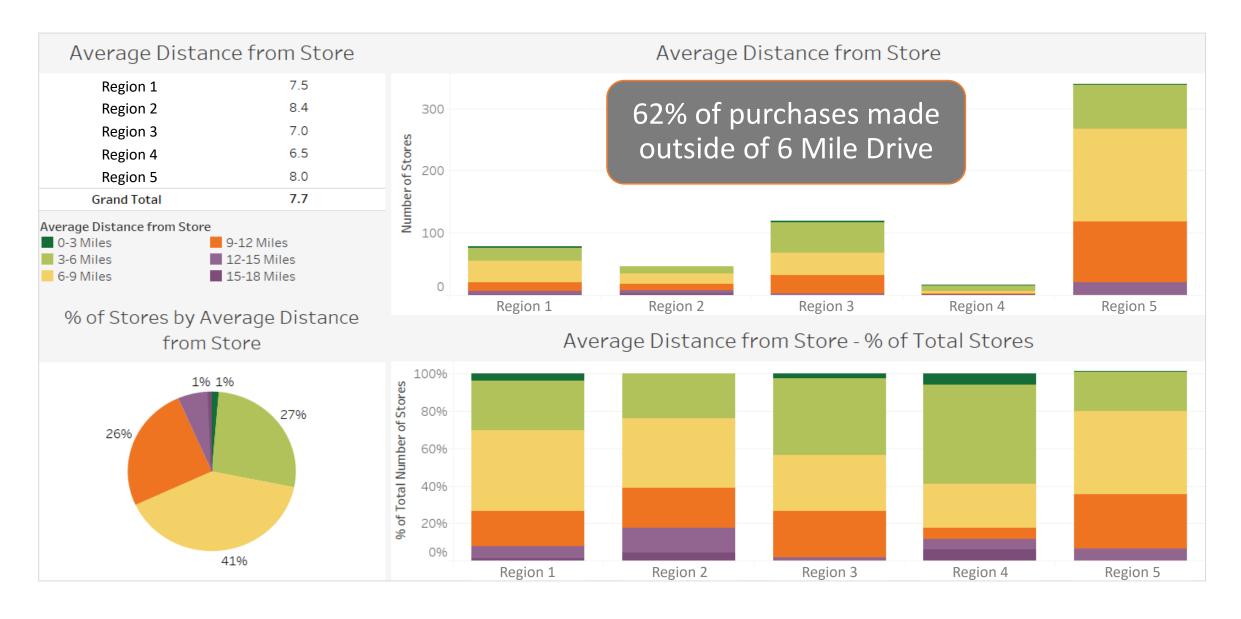
National Telecom Project Transforms Marketing ROMI

When DX Marketing was presented with finding a solution to a national Telecom client's high customer acquisition costs and indeterminate marketing ROMI for its acquisition programs, DXM turned to Oracle's Database, Analytics and Data Cloud for answers.

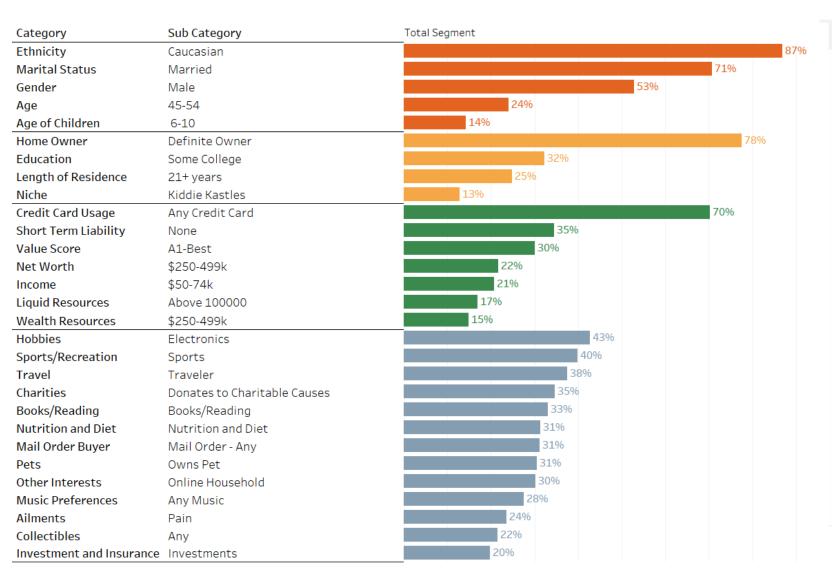
After just six months of campaign execution, customer acquisition costs had dropped well over half and the accompanying return on marketing investment revenues was positive with just one transaction. For the first time, the client was able to tie an offline, retail customer purchase back to its marketing spend, producing a quantifiable marketing ROMI across several channels.



8 MILLION CUSTOMERS > AVG. DISTANCE TRAVELED TO STORE > ALL REGIONS



TOP LINE DASHBOARD > HIGHLIGHTS > ALL CUSTOMERS BY HIGHEST % of VARIABLE



OBSERVATIONS

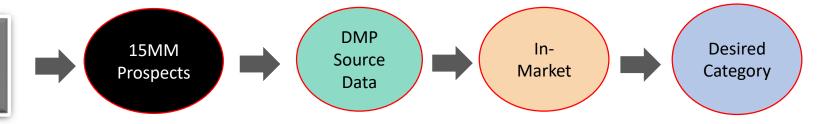
Demographics: Most customers are Caucasian, married, slightly skew males, ages 35 to 64 represent 64% of all customers, and more than half have children of all ages – largest being 14% with children ages 6-10.

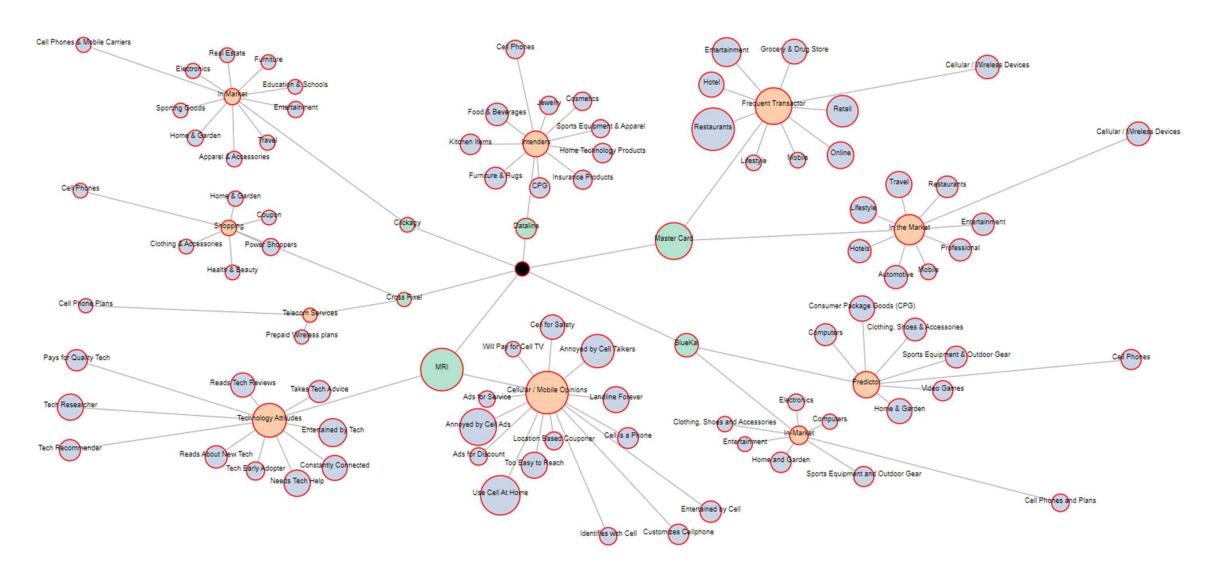
Socio-economic: Most customers are home owners with some college or higher education attainment – especially graduate degrees. 25% have lived at their residence for 21+ years. However, when compared to the market, there is a large segment (32%) of customers who have a LOR under 6 years. They are best represented by the Kiddie Kastles - a Niche cluster which is indicative of presence of children.

Financial: The majority of customers use credit cards and have little short term liabilities and possess the best ValueScores – an indication of good credit. They have considerable net worth and middle to high incomes as well as more cash and wealth resources.

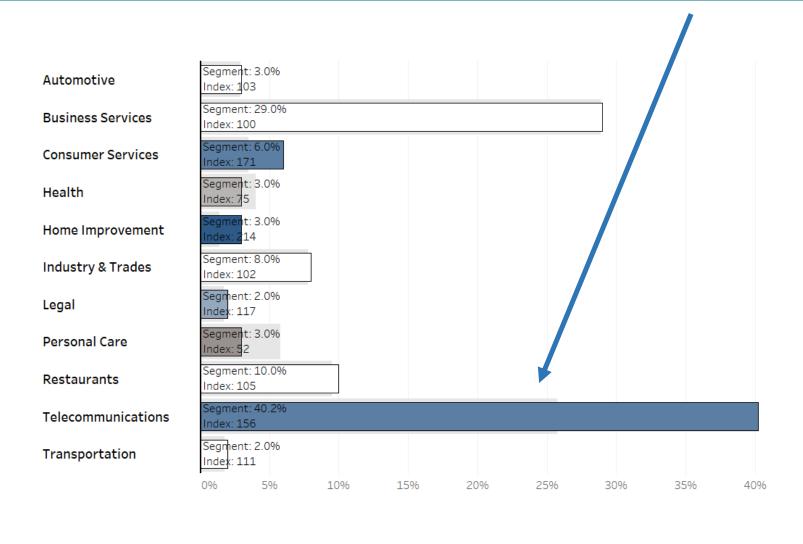
Interests: Customers self report interests in electronics, playing sports and can be seen donating to any number of causes. You may find them reading or listening to music to unwind. These nutrition conscious, pet owners, enjoy traveling, especially cruise ships. They are into investments and purchase products through the mail.

DMP – Runs through 70K touch points for cell phone intent and purchasing





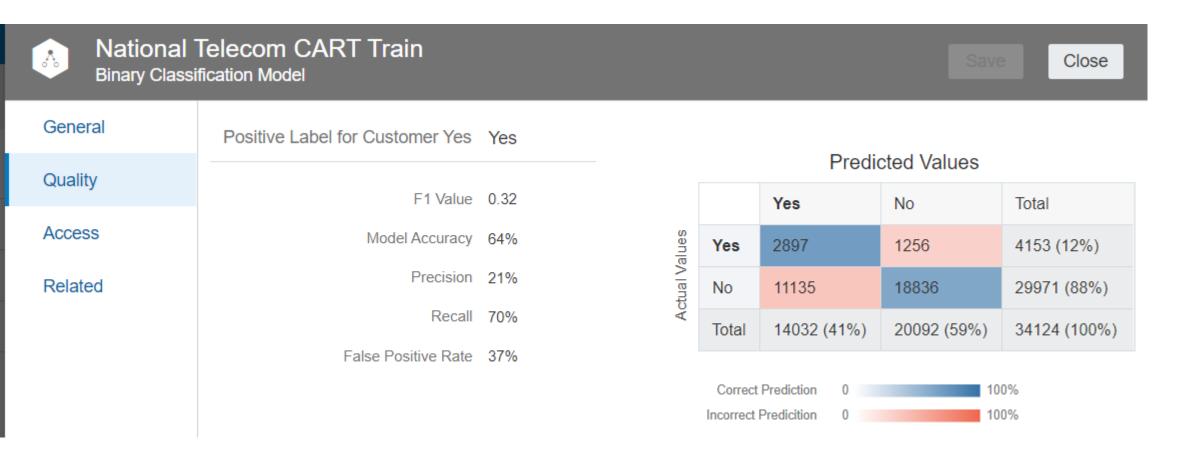
40% of existing customers searched for **DEVICES OR PLANS** in the last 30 days



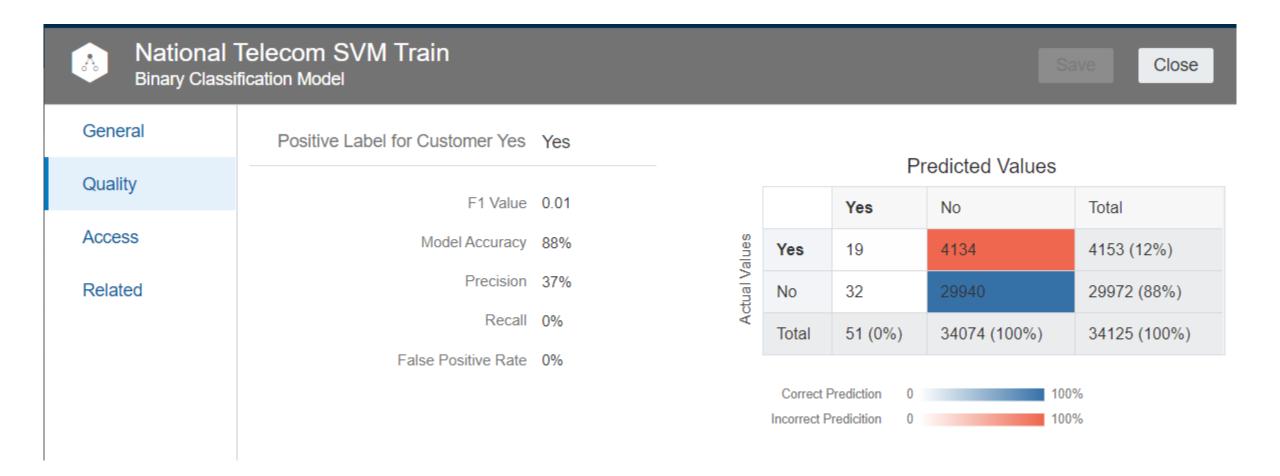
Specific to devices, during the same period, customers were 33% more likely to have searched for iPhones



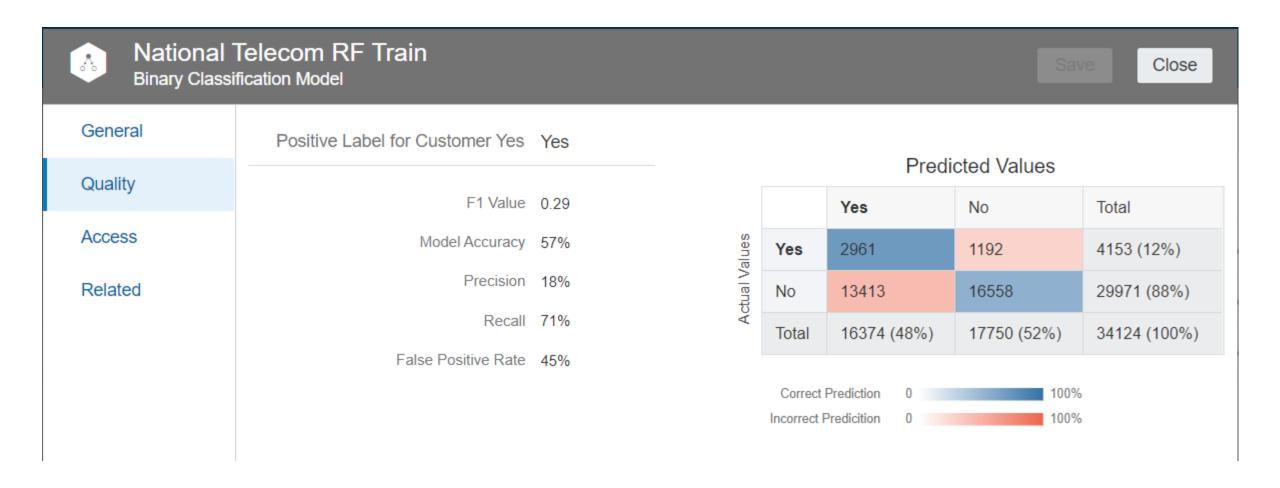
CART Decision Tree for National Telecom CRM Prediction



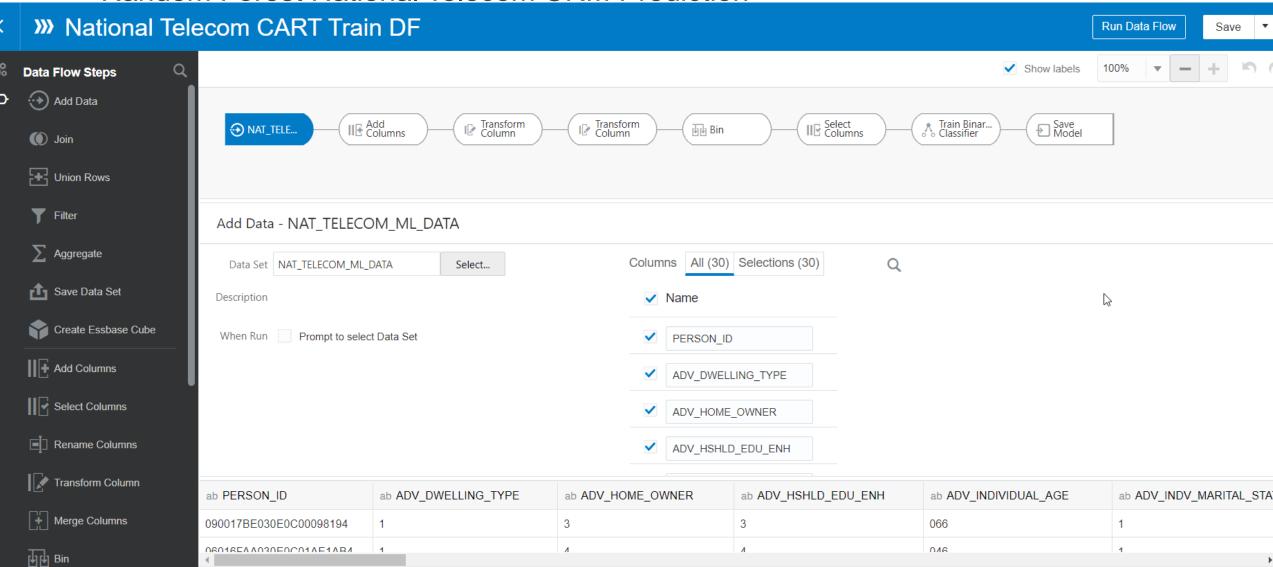
SVM for National Telecom CRM Prediction



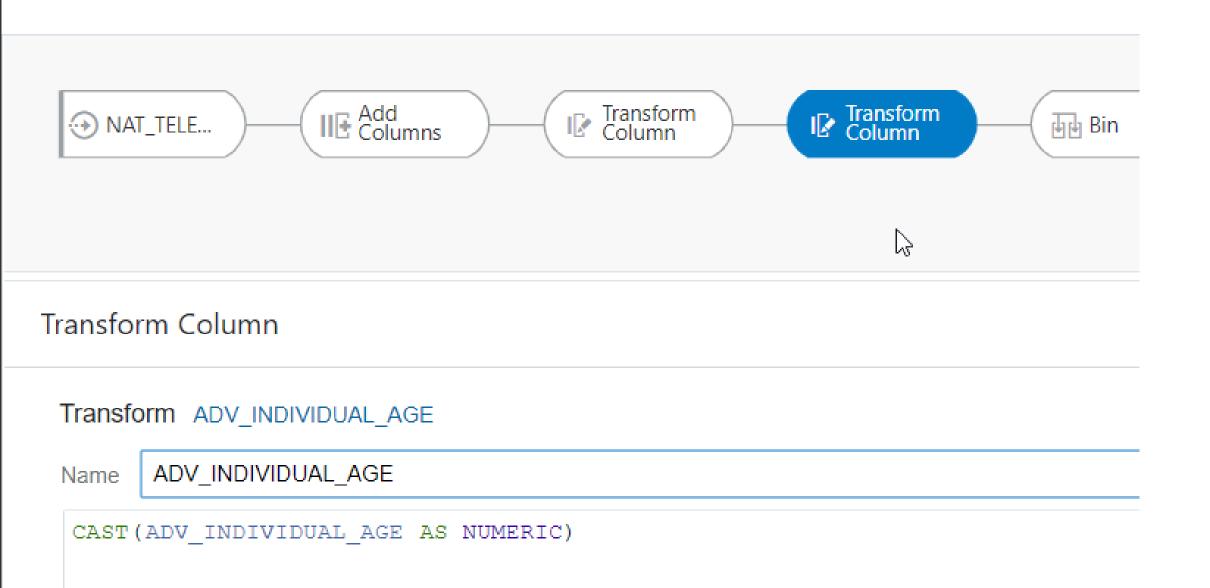
Random Forest for National Telecom CRM Prediction



Random Forest National Telecom CRM Prediction

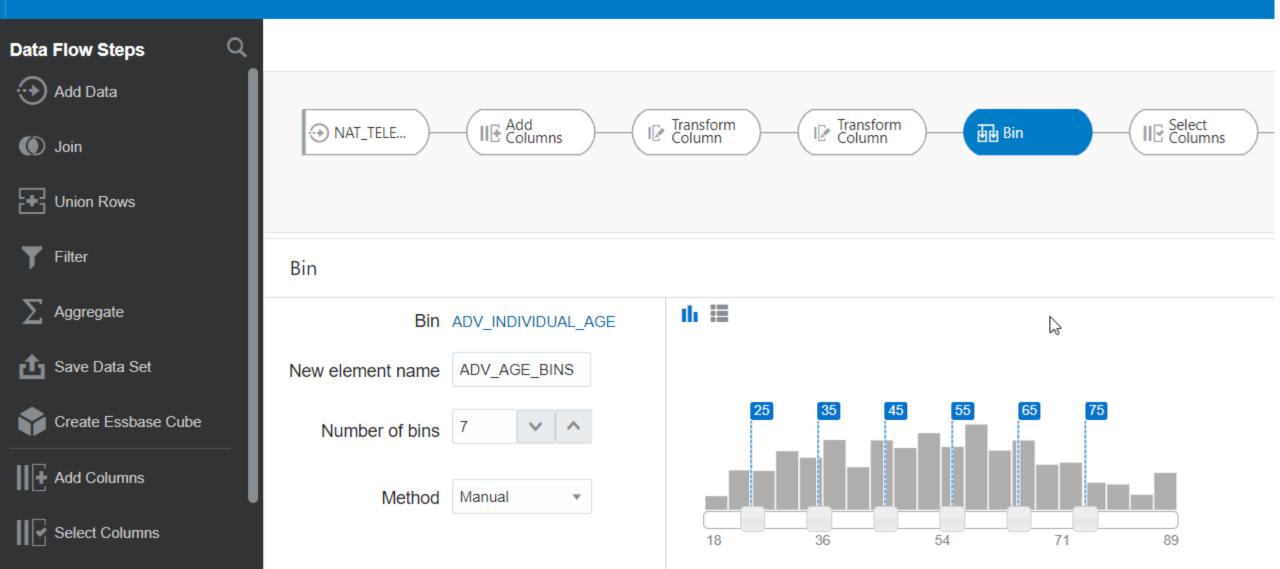


Transforming Columns Helps Achieve Better Machine Learning Models



Transforming Columns Helps Achieve Better Machine Learning Models

>>> National Telecom CART Train DF



Link your audience exposure files with behavioral intent, creative execution and time stamp





ZIP	ZIP4	CREATIVE_ID	PLACEMENT_ID	DISPDTTM
0612	2015	99715519	230816013	12/1/2018 9:28
0171	1646	99715519	230816013	12/1/2018 9:29
0002	5428	99715519	230816013	12/1/2018 9:29
7095	7199	103203689	230816013	12/1/2018 9:29
7516	9191	99715519	230816013	12/1/2018 9:29
0701	4174	109395347	230816013	12/1/2018 9:29
8210	2946	99715519	230816013	12/1/2018 9:29
7122	3835	109395347	230816013	12/1/2018 9:29
4997	7825	103203689	230816013	12/1/2018 9:29
8015	4482	109395347	230816013	12/1/2018 9:30
8502	3275	99715519	230816013	12/1/2018 9:30
7340	9526	103203689	230816013	12/1/2018 9:30
7223	8801	109398545	230658145	12/1/2018 9:30
3124	1046	103203689	230816013	12/1/2018 9:30
7922	5121	109395347	230816013	12/1/2018 9:31
5051	4591	109395347	230816013	12/1/2018 9:31
3618	4211	109395347	230816013	12/1/2018 9:31
780	4124	109395344	230535347	12/1/2018 9:31
2765	7288	99715519	230816013	12/1/2018 9:31
3112	2024	99715519	230816013	12/1/2018 9:31
6522	3875	103203689	230816013	12/1/2018 9:32
4086	3079	99715516	230535347	12/1/2018 9:32
0258	2904	109395347	230816013	12/1/2018 9:32
9440	1112	99715519	230816013	12/1/2018 9:32
2880	4508	109395347	230816013	12/1/2018 9:32
9423	2630	99715519	230816013	12/1/2018 9:32
8115	6725	99715519	230816013	12/1/2018 9:32
3099	9078	99715516	230535347	12/1/2018 9:33
6143	7526	103203689	230816013	12/1/2018 9:33
6701	8312	103203689	230816013	12/1/2018 9:33
5023	2244	109395347	230816013	12/1/2018 9:33
0722	6400	103203689	230816013	12/1/2018 9:33
3702	4022	109395344	230535347	12/1/2018 9:34
0152	5461	99715519	230816013	12/1/2018 9:34
1664	233	103203689	230816013	12/1/2018 9:34









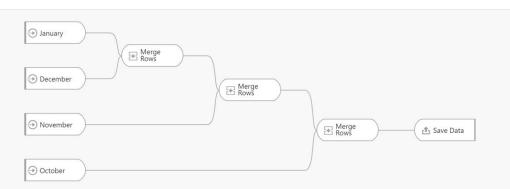








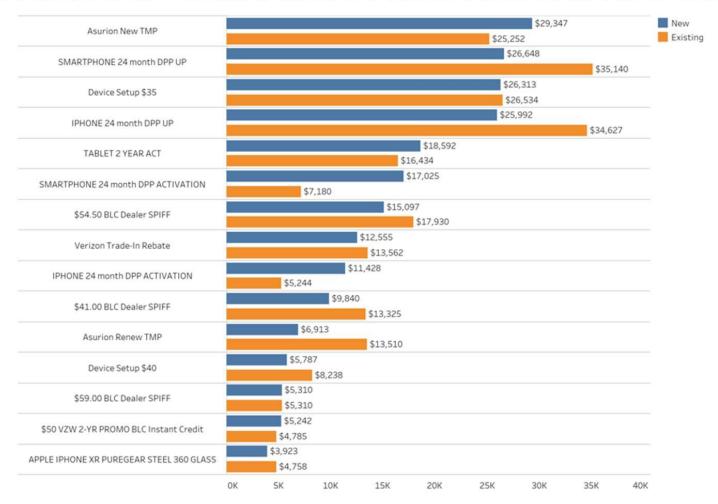




Linking Monthly Exposure Files

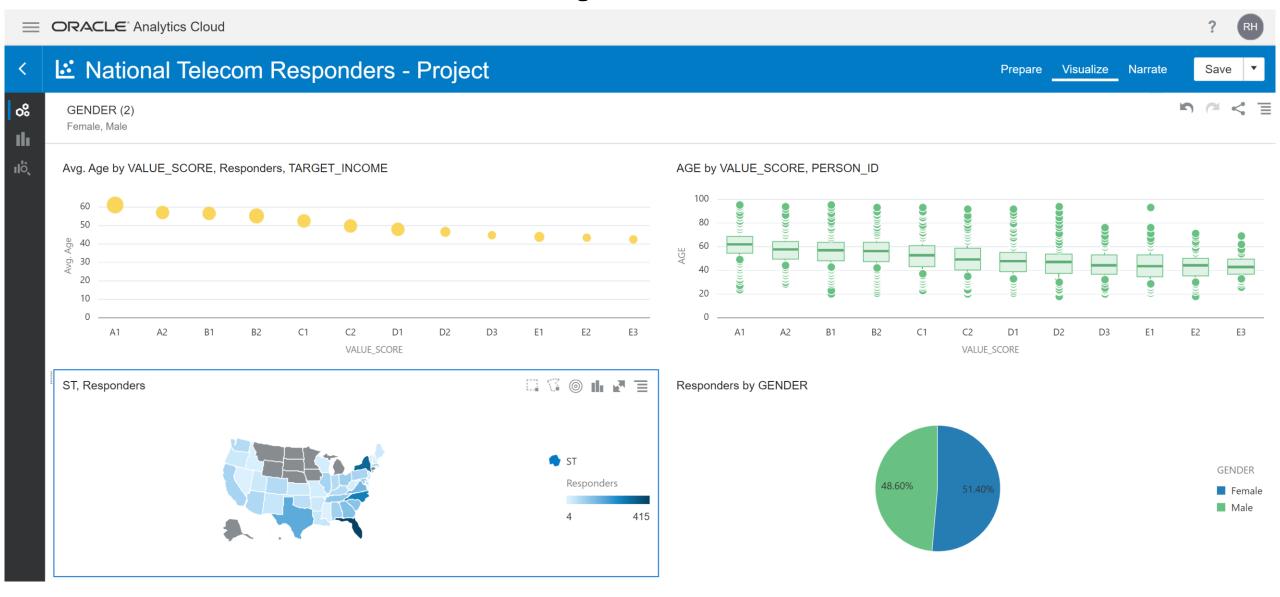
CLIENT PROVIDES TRANSACTION (POS) FILE

TOP 15 PRODUCTS PURCHASED BY NEW AND EXISTING CUSTOMERS

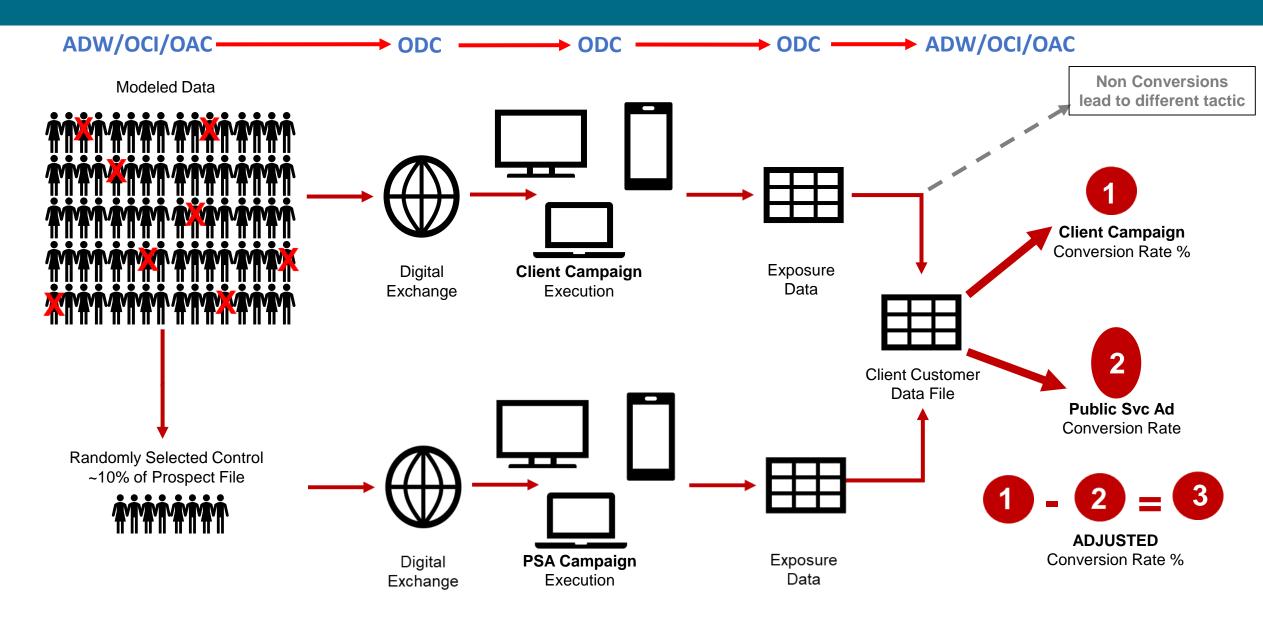




Correlating the responder data variables reveals ability to pay gets better with age – not income



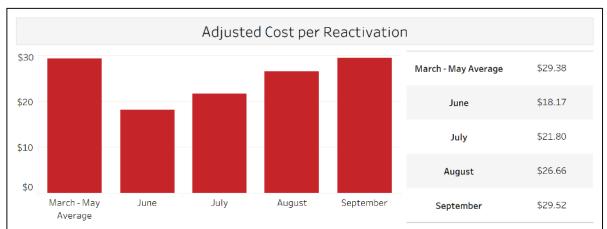
Process chart shows campaign and random control group through different cloud solutions



RESULTS: Positive ROMI on one transaction and lowered cost of acquisition by \$50

Segment	Total Spend	Unique HH	HH Conversion	Conversion %		Control Qty	Control Conversions	Control Conversion %	Adjusted Conv Rate	Adjusted Conversions	Adj. Cost per New Customer	Adjusted CLT ROMI (Transaction File CLT)	Conv Index
DXM Market Trend/Model	\$211,051	453,381	4,494	0.99%	% 37,485 141	0.38%	0.62%	2,789	625.57	42.0 6	135		
Client Demo Model		847,815	5,377	0.63%		66,612	174	0.26%	0.37%	3,162	\$35.57	\$3.06	82
TOTAL:		1,301,196	9,871	0.76%		104,097	315	0.30%	0.46%	5,934			





Measurement Window: March 21st - September 30th

- CPNC at \$35.57 for all Markets down from \$85
- Lowest CPNC is \$26 in the South
- Highest CPNC is \$60 in the Midwest
- ROMI (\$3.06) was calculated using the "One Time Customer Spend" found in the Transaction file
- Market Trend Model outperformed Client Demo Model in overall Performance

CRM RESULTS: Positive ROMI over \$141 to \$1 and lowered cost of reactivation to \$1

	Total Spend	Unique HH Impression	HH Conversion*	Conversion %	Control Type	Control Conversion %	Adjusted Conv Rate	Adjusted Conversions	Adj. Cost per New Customer	Adjusted Product Sale Price ROMI
January	\$3,319	82,915	4,521	5.5%	PSA Control	1.5%	4.0%	3,311	\$1.00	\$141
					Full Control	0.80%	4.65%	3,858	\$0.86	\$164



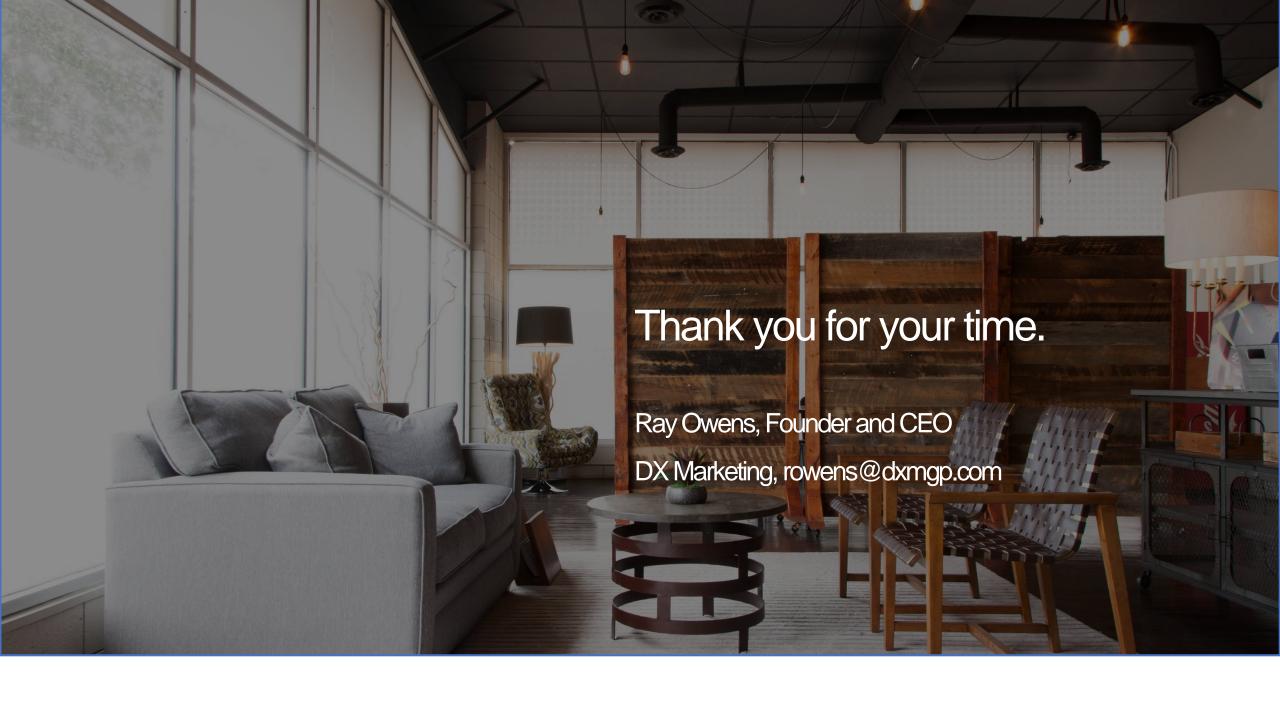
Measurement Window: January 1 to January 31st

- PSA Control is 1.8x the Full Control
- ROMI was calculated by aggregating the "Product Sale Price" of all transactions made by customers attributed to the display campaign during the measurement window
- Product Sale Price per Customer was \$141

The channels configured in a Privacy Safe way

- Use of anonymous IDs
- Obscuring of PII and customer data
- Avoid the annoying factor
- National regulation compliance
- Oracle is the leader within industry self-regulatory bodies





Thank You!