



Call Center Analytics: Customer level Approach


Identified 140+ Linked Services to Proactively communicate for the next likely Call

Link Analysis – The Ecommerce solution for CCO Inbound Calls




The Ecommerce Recommendations

Frequently Bought Together




PD35 TAC
1000 LUMENS

+




2-PACK
ARB-L16-1500

+



FENIX
ARE-C2

+



ADAPTER
2x USB PORT FOR CAR

☒ This item: PD35 Flashlight \$17.99


☐ 2-pack ARB Batteries \$5.99

☒ Fenix ARE-C2 Charger \$12.99


☐ Car Adapter 2x USB \$4.99

ADD ALL TO CART


Customers Who Bought This Item Also Bought




Predictive Analytics For Dummies
Anashe Bari
★★★★★ 29
Paperback
\$17.72 Prime



Predictive Analytics: The Power to Predict Who...
Eric Siegel
★★★★★ 229
#1 Best Seller in Econometrics
Hardcover
\$16.98 Prime

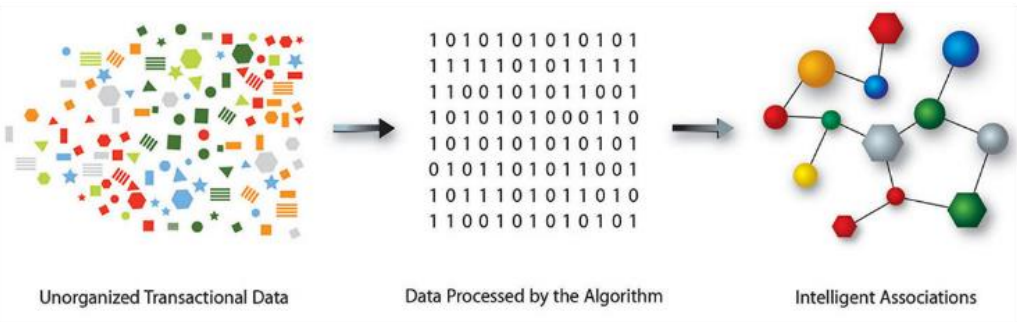


Quantifying the User Experience: Practical...
Jeff Sauro
★★★★★ 8
Paperback
\$40.63 Prime



Marketing Analytics: Strategic Models and...
Stephan Sörger
★★★★★ 29
Paperback
\$50.52 Prime

The Computation




The Science

Rule: $X \Rightarrow Y$

$Support = \frac{frq(X, Y)}{N}$

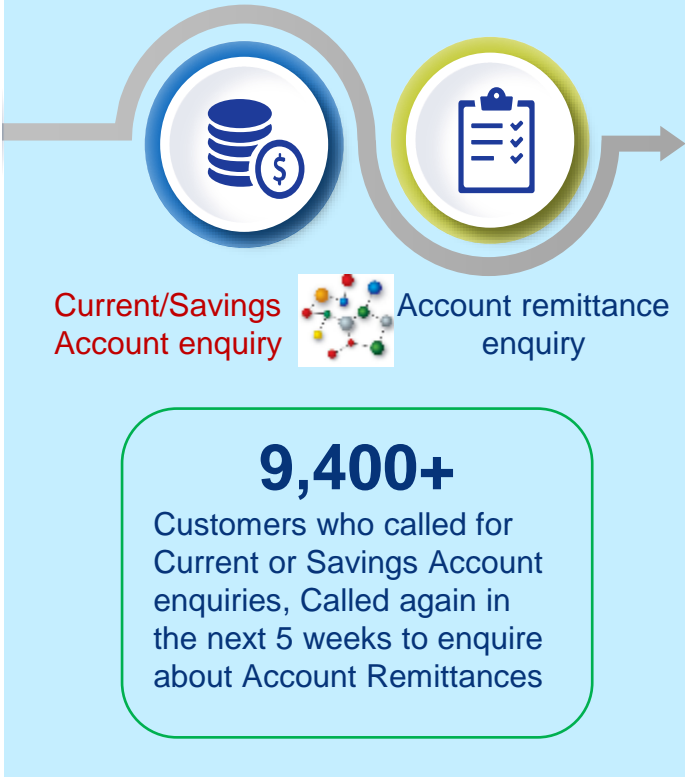
$Confidence = \frac{frq(X, Y)}{frq(X)}$

$Lift = \frac{Support}{Supp(X) \times Supp(Y)}$



Rule	Support	Confidence	Lift
$A \Rightarrow D$	2/5	2/3	10/9
$C \Rightarrow A$	2/5	2/4	5/6
$A \Rightarrow C$	2/5	2/3	5/6
$B \& C \Rightarrow D$	1/5	1/3	5/9

Linked Call Example



1

Link Analysis on Top Customer Call Reasons to identify similar recommended reasons

2

Recommended Reasons are the ones for which a customer is highly likely to call again If he has called for the Primary Reason

3

Proactive Communication for the Recommended Reason along with or just after the Primary one will reduce additional calls

Identifying Customers with Similar Call Reasons - CLUSTER ANALYSIS



Objective: Identify customers with similar Calling Reason & reduce Calls

K means clustering :

K-means algorithm identifies k number of centroids, and then allocates every data point to the nearest cluster, while keeping the centroids as small as possible based on Euclidean Distance

Illustration of Clustering with 3 types of Customers



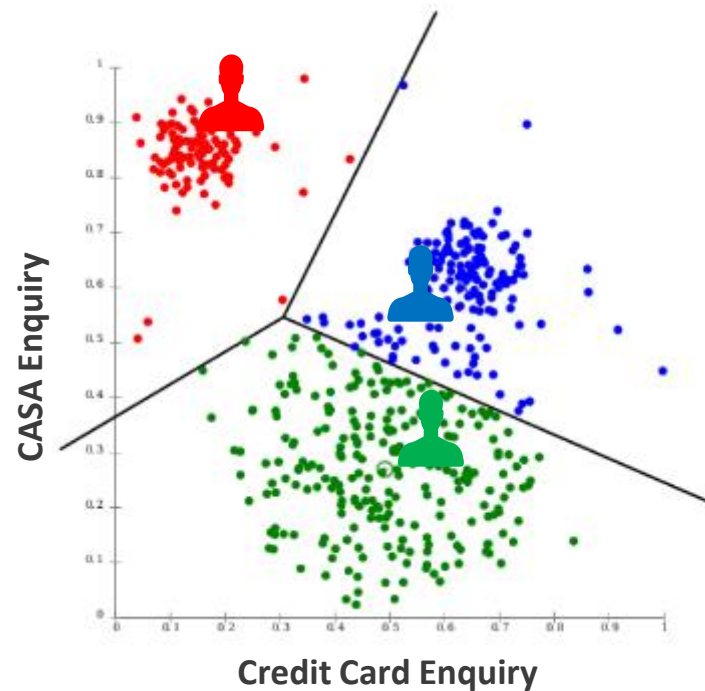
15% CC Enquiry
65% CASA Enquiry



45% CC Enquiry
50% CASA Enquiry



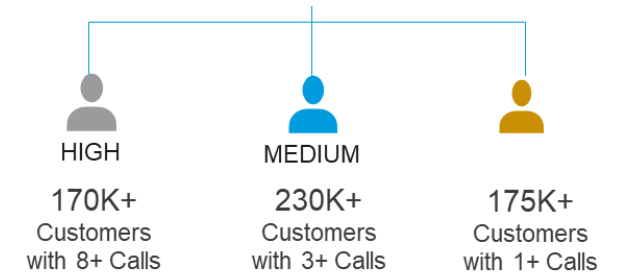
50% CC Enquiry
25% CASA Enquiry



CLUSTER

K-means algorithm identifies k number of centroids, and then allocates every data point to the nearest cluster based on Euclidean distance

Clustering among 3 groups



Defining Clusters:

Top Reasons capturing 43% calls:

- Card Trxn/Statement Enquiry (11%)
- Card Installment (10%)
- GENERAL-ONLY Enquiry(9%)
- General Enquiry (7%)
- CC Block/ Replace (6%)

Customer Example for Cluster Allocation



CUSTOMER A (High)

CLUSTER ALLOCATION

NATIONALITY



SALARY

13k

AGE

29

SEGMENT



PSB
INDIVIDUAL

DIGITAL SCORE



46
Medium

BANKING PROFILE



PRODUCT
Credit Card

CASA BAL



Low

Revenue Potential



Low

CC Balance



Medium

Revenue



Low

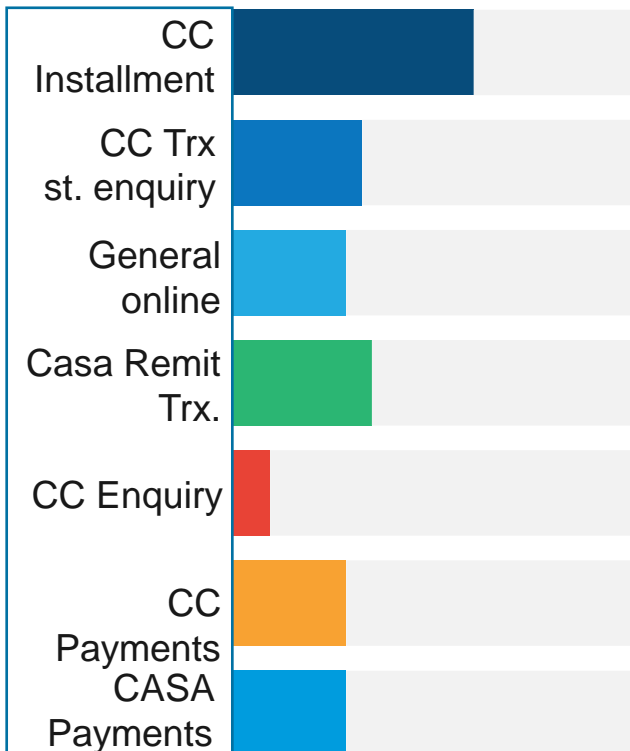
CC Spends



Low



REASONS TO CALL



Calls once a month



OB/MB active



Avg. call duration



Since the customer calls more than 8 times in a year, he is a part of **High Engagement Group**

H3

Based on his Call Behavior, Persona, digital activity & financial behavior, the customer falls into the cluster H3

Customer Example for C2S2 Computation



CUSTOMER A (High)

C2S2 Computation for the Customer

NATIONALITY



SALARY (3/3)
13k

AGE
29

SEGMENT



PSB
INDIVIDUAL
(5/5)

DIGITAL SCORE



46
Medium

BANKING PROFILE



PRODUCT
Credit Card

CASA BAL (3/3)
Low

Revenue Potential (6/6)
Low

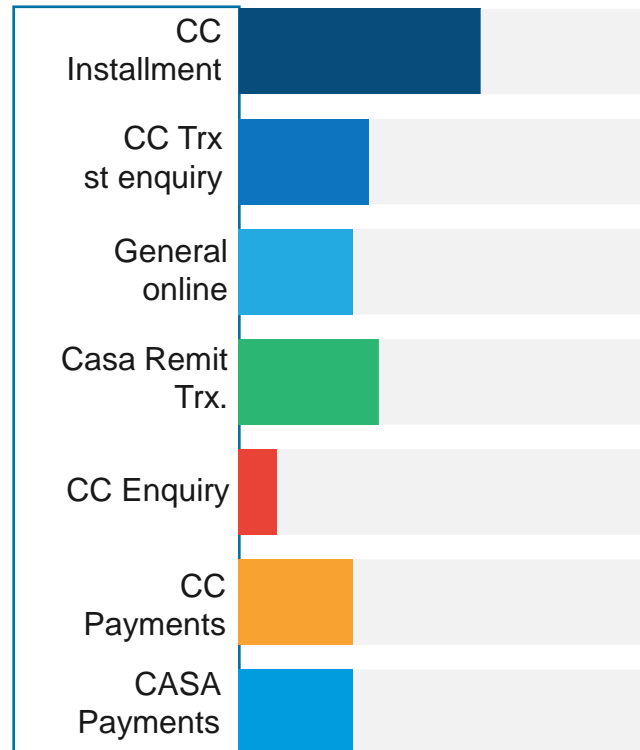
CC Balance (2/3)
Medium

Revenue (6/6)
Low

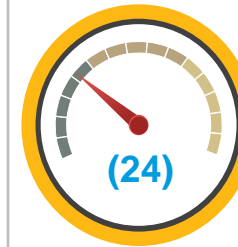
CC Spends (3/3)
Low



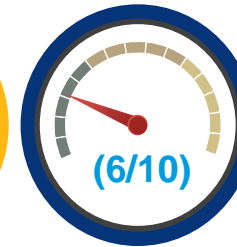
REASONS TO CALL (10)



Calls once a month



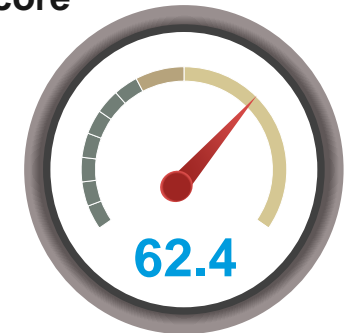
OB/MB active



Avg. call duration

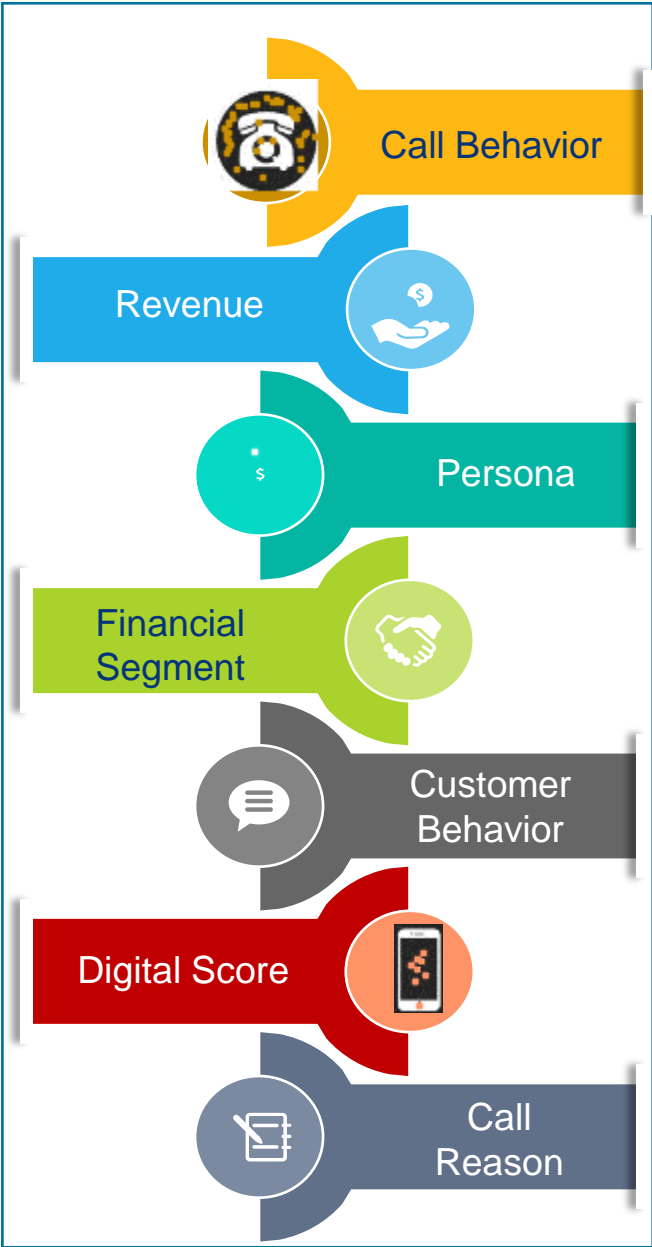


C2S2 Score

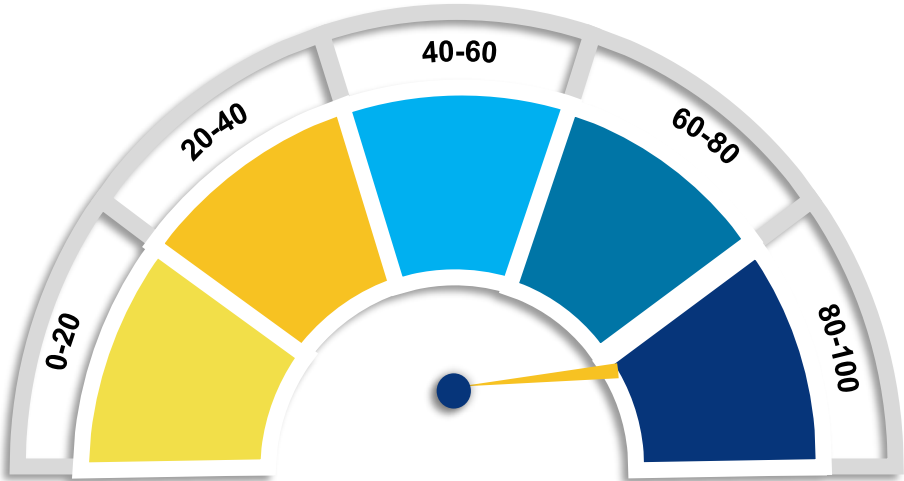
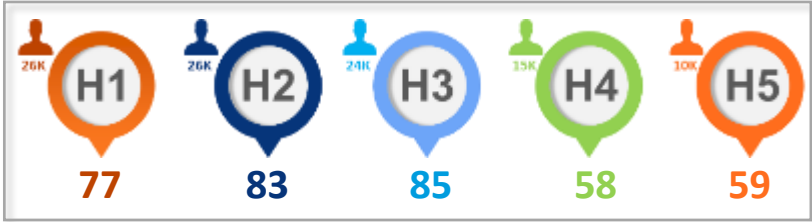
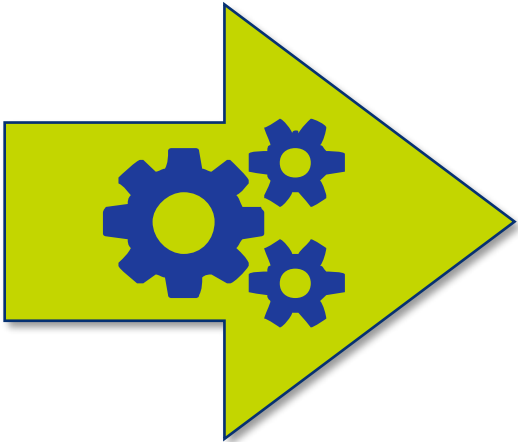


Customer C2S2 computed based on various attributes with Call Reason, Call Vol, Revenue being the Key ones

Customers with High C2S2 to be de-prioritized for Agent Call Transfers



Multi-Attribute
Value Model



C2S2 - CUSTOMER CALLS & SERVICE
SCORE



Lower C2S2 means higher
priority on Agent Call Transfers

Higher C2S2 means lower priority
on Agent Call Transfers

Digital Adoption Initiatives/Plans for Migration from Inbound Calls



Personalised comms. with Vizury



Reduced Inbound Calls by communicating with customers based on their inbound calls Reason & seasonality trends

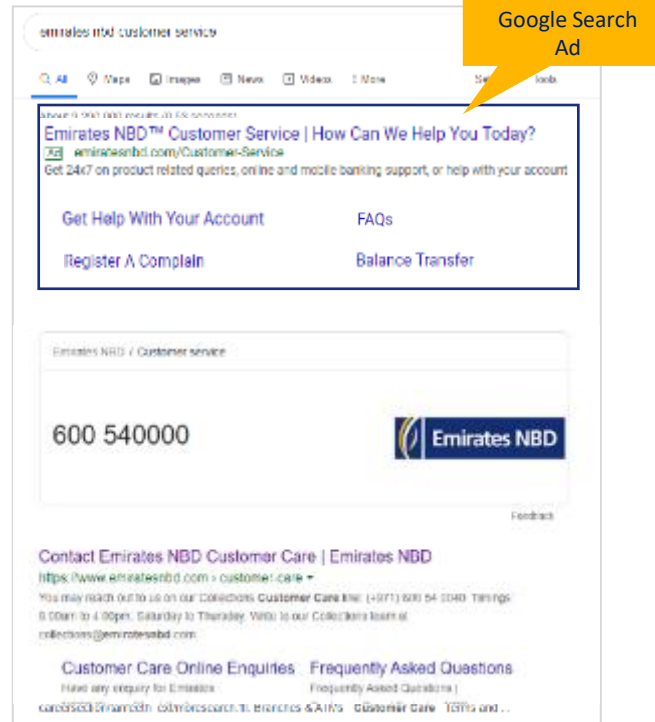


- Identify frequent inbound call center callers
- Drive them to appropriate pages on website
- Personalized messaging for top 5 Use Cases
- Mapping CCO Reasons & using cluster analysis to redirect customers to appropriate pages on website

Target customer queries on search



Use Google search ads to divert queries to the website – especially during peak hours



Customer Service Knowledge Series



Educate customers on 1 topic every week on how to use digital channels to solve their queries

2020		May							
S	M	T	W	T	F	S	S		
		1	2	3	4	5	6	1st Communication	
6	7	8	9	10	11	12	13	2nd Communication	
13	14	15	16	17	18	19	20	3rd Communication	
20	21	22	23	24	25	26	27	4th Communication	
27	28	29	30	31				5th Communication	

Use Paid + Owned channels for promotion



Emails



SMS



Facebook



Instagram



Thank You

