

PIZZA HUT UK plugs churn and increases revenue with Algonomy CDP

Overview of the client



400+ stores



16K employees



3M+ customers



60+
years in
operation



Poor access to customer data and insights

Siloed Customer Data

• Siloed data sources leading to fragmented view of customers across channels

Delayed Reporting

High wait time for decision makers to get updates with reports taking over 6 hours

No ready insights

• Excel reports that **did not provide actionable insights**

Revenue Loss

• Lack of real-time visibility to customer behavior meant inability to cross-sell, reverse churn behavior leading to revenue loss

BURNING PROBLEM

Inconsistent numbers – resulting in no proper insights and no timely visibility thereby delayed decision making

ALGUNOMY

Algonomy Customer Analytics

DATA INGESTION, DEDUPLICATION & ENRICHMENT

Data types

Personal
Demographics
Menu
Transaction

Data sources

Online Delivery Takeaway Aggregators

Real-time Integration

PHDV – Online Orders Punchh – Loyalty



Unified Customer Snapshot

GOLDEN CUSTOMER RECORD

CUSTOMER
SEGMENTATION
& ANALYTICS

Segmentation

- RFME Customer
- · Scoring: Predictive
- Segmentation
- Customer Lifecycle

Algorithms

- Market basket analysis
- Churn analysis
- CLTV
- · Propensity modelling
- · Attribution modelling

Business Analytics

- Acquisition & Loyalty
- Purchase behavior & Product mix
- Marketing ROI

ORCHESTRATION

Direct

PERSONALIZED CAMAPIGNS



Customer Journey

behaviour linked

Automated

interface

Marketing Lists

Purchase



Call Centre



API integrations



MEASUREMENT

- Customer Lifetime
 Value
- Customer satisfaction
- ROI measurement
- Promotion measurement
- Conversion analysis



. Unified campaign analytics . _ _ _ _ _ _



Seamless integrations with data sources and audience touchpoints























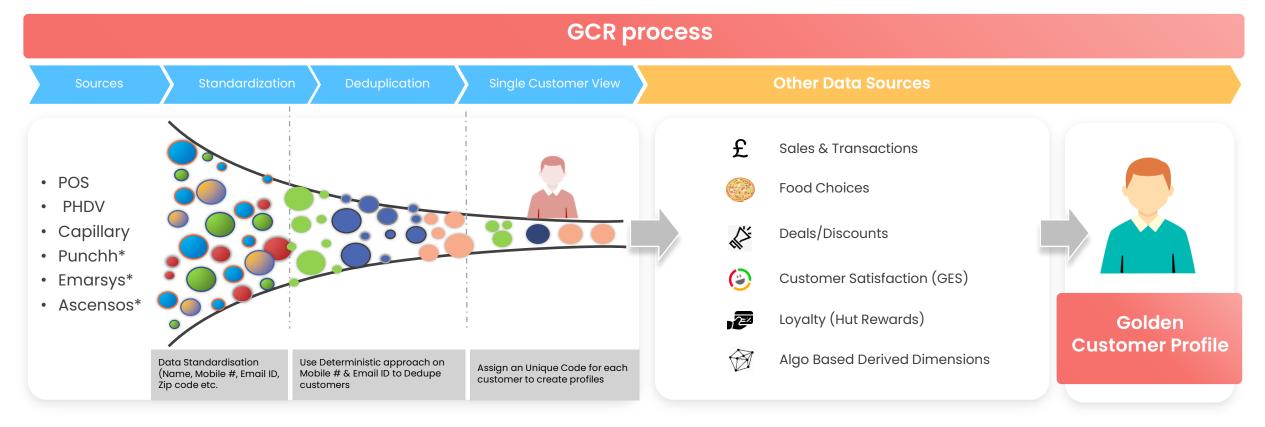








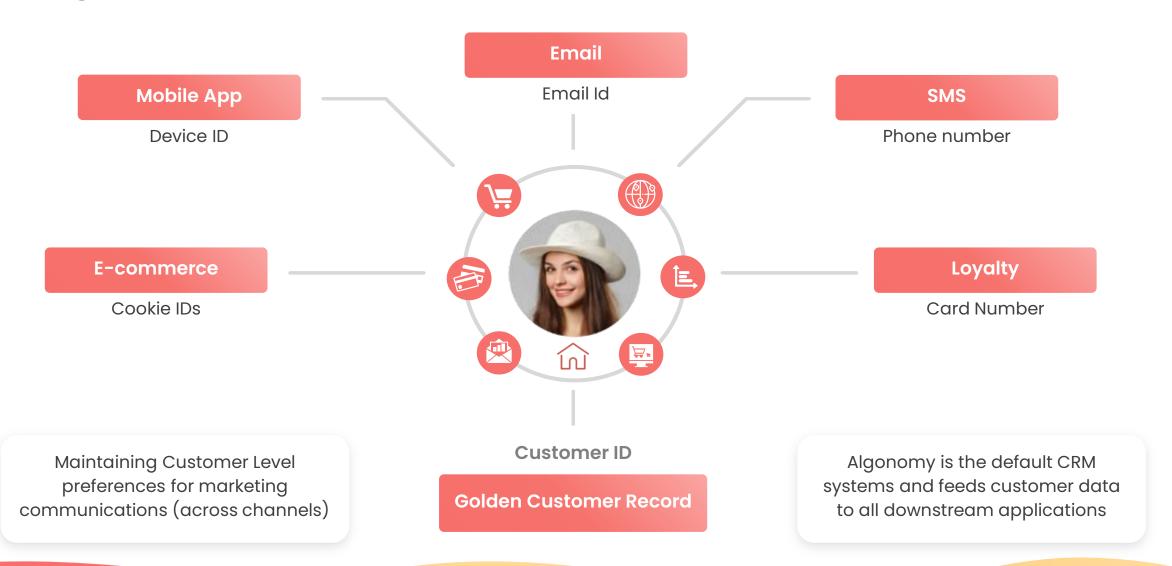
360-degree view of customer and Golden Customer Record



- Data Standardization using attributes such as Name, Phone number, Email, Address, Zip code
- Clusters of duplicate records created by matching them based on deterministic and probabilistic rules
- Merging clusters of duplicate records and enriching it with attributes from different systems
- Creating data link between deduplicated master, original source data and purchase/interaction data
- Outward integration with source system providing golden profile



Algonomy acts as default CRM





Single view of customer from multiple sources

	POS	POS	POS	POS	Punchh	POS	Capillary
							GELMILZE-\$
Full Name	Genny	Genny	Genny Costa	Gelmilze		Gelmilze	COSTA
First Name					Genny		
Joining Date	12/22/2019	12/14/2019	11/28/2019	12/7/2019	11/28/2019	12/4/2019	1/1/1900
Loyalty Status	TRUE	TRUE	FALSE	TRUE		TRUE	NonLoyalty
			Flat 27, Pegasus				
Customer Street	16	16	House	16 Medwin		16 Medwin	
			89 Greengate				
Address 1	Medwin,	Medwin,	Street,				
	gcosta84@live.co	gcosta84@live.c	gcosta84@live.co	gcosta84@live.co	gcosta84@li	gcosta84@live.	gcosta84@l
Email Address	m	om	m	m	ve.com	com	ve.com
Mobile Number	7954175757	7954175757	7954175757	7954175757	7954175757	7954175757	795417575
SMS							
Communication					N		N
Email							
Communication	f	f	f	f	N	t	Υ
Data Source	Sales	Sales	Sales	Sales	Punchh	Sales	Capillary
Punchh ID					268106		
Online Order	OLO3/8119/6662	OLO3/8119/659	OLO3/721/69132	OLO3/8119/65323		OLO3/8119/63	
Reference	639714/0000	7183322/0000	31972/0000	60380/0000		09987677/0000	
Zip Code	nn83td	nn83td	E130BN	NN83TD		NN83TD	
Last Order Date	22-12-2019	14-12-2019	28-11-2019	07-12-2019	23-12-2019	04-12-2019	22-01-2020
Order No.	2901145362	2900704398	2899793567	2900335838		2900136898	

Customer profile is unified by bringing data from three sources together. After Standardization, deduplication and Merging, Single Customer View and GCR is arrived at, wherein all the demographic details and other attributes are available in one record.

	Manthan SCV	
Customer Code	12236879	
Full Name	Genny Costa	
First Name	Genny	
Last Name	Costa	ails
Punchh ID	268106	Det
Guest Signup Date	11/28/2019	Demographic Details
Loyalty Status	Hut Rewards	grap
Address 1	16	m og
Address 2	Medwin,	De
Zip Code	NN83TD	
Email ID	gcosta84@live.com	
Mobile Number	7954175757	
SMS	Opt_Out	opt-In Data
Email	Opt_In	o o

	Manthan SCV	
First Purchased Date	28-11-2019	
Last Purchased Date	22-12-2019	rtion
Most Visited Store	Wellingborough (8119)	Informatior
Last Visited Store	Wellingborough (8119)	ner In
Household Head	Yes	ustor
Current Lifecycle Status	New	Other Derived Customer
GDPR Flag	N	Deriv
Current Performance Status	Heavy	ther
Email – Last Opt Out Source	Capillary	ō
SMS – Last Opt Out Source	Capillary	



Automated Householding for better targeting

Golden Customers

Customer Code	Joining Date	Name	Phone	Email	Postal Code	Address	Loyalty
10032401	10-Jun-2018	Thomas	8763446902	xyz@gmail.com	DY32BB	6 Roberts Green Road	No
23004596	04-May-2002	Luttman	7489834234	akl@gmail.com	DY32BB	6 Roberts Green Road	Yes

Household

Household Code	Household Joining Date	No of Customers	Primary Phone	Primary Email
HH_10023	10-Jun-2018	2	8763446902	xyz@gmail.com

Household of each Golden Customer is identified based on Deterministic and Probabilistic logic defined on customer attributes

- Deterministic: Works on unique identifiers like E-mail ID/Mobile/Phone Number attributes of customer for matching
- **Probabilistic**: For other non unique identifiers attributes are processed through Probabilistic match type which is based on Levenshtein distance (string similarity metric) algorithm calculation.



Plug churn and increase revenue with Algonomy CDP

CHALLENGE

- Limited customer data and analysis crippling the ability to personalize engagement
- Unable to expand customer base with targeted, tested messaging
- Poor visibility into segment migration meant inability to reverse churn behavior

SOLUTION

Identify untapped sales
opportunity using machine learning
algorithms like Customer
Segmentation, Propensity Modelling

Create customer lists for personalized targeting using
behavioral and predictive analysis

BENEFIT

- Increase customer base
- Increase existing customers' average spend
- Reactivate Lapsed, Dormant, Churned customers





Segmentation based on Clustering Algorithms

Loyalists

- Loyalists are most frequent and significantly indulge in Online Sales
- Pizza, Starter, Beverage Units sale is extremely high, Maximum Deal units used
- Off all the Segments, Loyalists prefer veg more
- Reward customers sales are extremely high compared to all other



Loyalists

- Stars are quite frequent and are heavy buyers
- Pizza, Starter, Beverage Units sale is high
- Deal units are also high
- Non –Reward Sales are high compared to other segments



Loyalists

- Casual Pizza Lovers have maximum unit sales of Pizza, Starters, Beverages and Deals after the Loyalists and Stars
- Mostly indulge in online sales



Least Engaged

 This segment has the maximum no. of customers with a very low purchase potential



Pizza Celebrators

- This segment is least frequent with highest avg spend
- Maximum Pizza Units per visit is consumed by this segment



On the Go Buyers

 This segment indulges in offline sales and take away orders. Has lowest average Spend of all segments

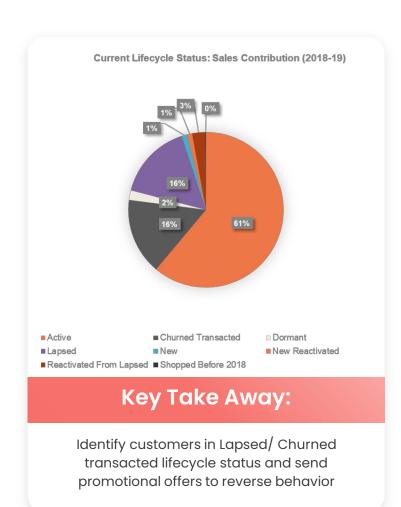


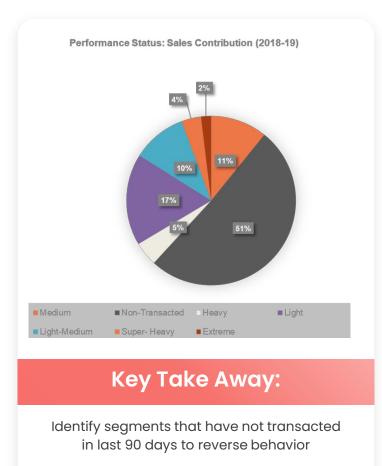
Key take away: Identify segment size, sales contribution, ARPU, Average Spend for better targeting

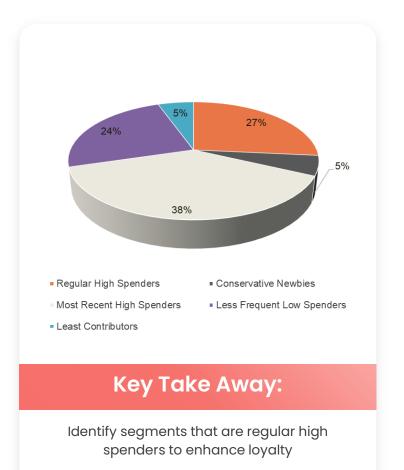


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Profile customers using Lifecycle Status, Performance Status & RFM Groups for better targeting





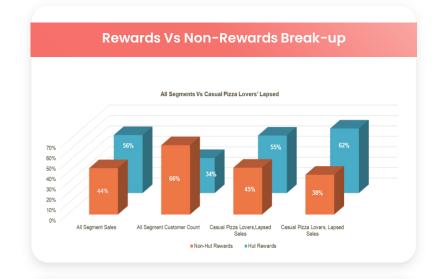


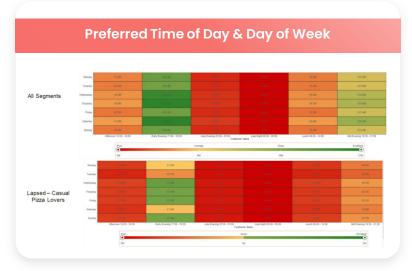


Create micro-segments and analyze their profile

Key Metrics of Lapsed - Casual Pizza Lovers

Key Metrics	Casual Pizza Lovers, Lapsed
Customer Sales	£16.64M
Transacted Member Count	13.45K
GC Count	95.60K
Average Revenue Per User	£123.71
Avg Spend	£17.41
Avg visit count	7.3
% SMS Opt In	23.8%
% Email Opt In	11.1%





Menu preference of segment

All Segments	Casual Pizza Lovers, Lapsed Customers
Menu items – Popular menu items are chicken strips followed by Large Classic Crust Pepperoni Feast, Potato wedges	Menu items – 51% of the sales came from BBQ Wings
Pizza Crust - 31% of the sales came from classic	Pizza Crust - 32% of the sales came from classic
crust followed by Pan crust (19%)	crust followed by Pan crust (17%)
Pizza Size-76% of the pizza volume came from	Pizza Size–80% of the pizza volume came from
Large(56%) and medium pizza(20%)	Large(53%) and medium pizza(26%)
Peperoni feast and Margherita are clear favorites.	Peperoni and Margherita are clear favorites.
4Topp most preferred in toppings	4Topp most preferred in toppings

Deal preference of segment

All Segmer	nts	Lapsed Casual Pizza Lovers		
83% of sales contributed	by Top 4 deals	80% of sales contributed by Top 6 deals		
Deals	% sales	Deals	% sale:	
£20 Bundle	27%	£20 Bundle	27%	
£20 bundle	2170	£24.99 Deal	18%	
£24.99 Deal	20%	£5 FavouriteDeal	19%	
£5 FavouriteDeal	20%	£19.99 Bundle	14%	
£19.99 Bundle	16%	Cookie Mix&Match	3%	

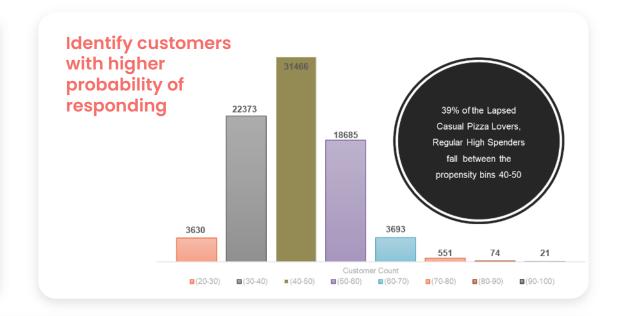
Insights: Customers do not show any unique behavior when it comes to Menu, Deal or Time preferences and is primarily influenced by the brand marketing strategies



Identify revenue potential based on RFM analysis & Propensity modelling

74% of Lapsed Casual Pizza Lovers' sales was contributed by Regular High Spenders who also have a higher ARPU

RFME Group	Customer Sales	Sales contribution	Transacted MemberCount	%Transacted MemberCount	GC Count	%GC Count	Average Basket Value	Average Revenue Per User
Less Frequent Low Spenders	£1.90M	11%	2.68K	20%	9,81K	10%	£19.38	£70.94
Regular High Spenders	£12.38M	74%	8.13K	60%	70.95K	74%	£17.44	£152.26
east Contributors	£2.37M	14%	2.65K	20%	14.85K	16%	£15.94	£89.44



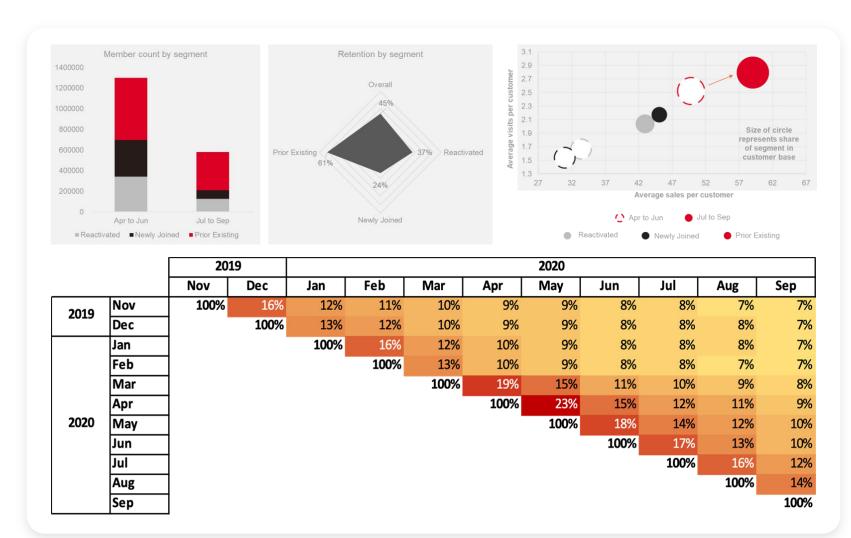
Avg Propensity	Customer Count	Reachable	Estimated Responders	ARPU	Potential Opportunity
25%	3630	954	239	£ 139.5	£ 33,277
35%	22373	5567	1948	£ 142.6	£ 277,755
45%	31466	7631	3434	£ 146.7	£ 503,720
55%	18685	4292	2361	£ 161.1	£ 380,347
65%	3693	854	555	£ 201.3	£ 111,759
75%	551	114	86	£ 269.3	£ 23,025
85%	74	13	11	£ 413.0	£ 4,563
95%	21	2	2	£ 729.7	£ 1,386

Reactivating LAPSED – CASUAL PIZZA LOVERS
– REGULAR HIGH SPENDERS – WITH
PROPENSITY OF 20% – 100% may lead to a
potential revenue opportunity of

£1.3M in one visit



Impact analysis of reactivation campaign



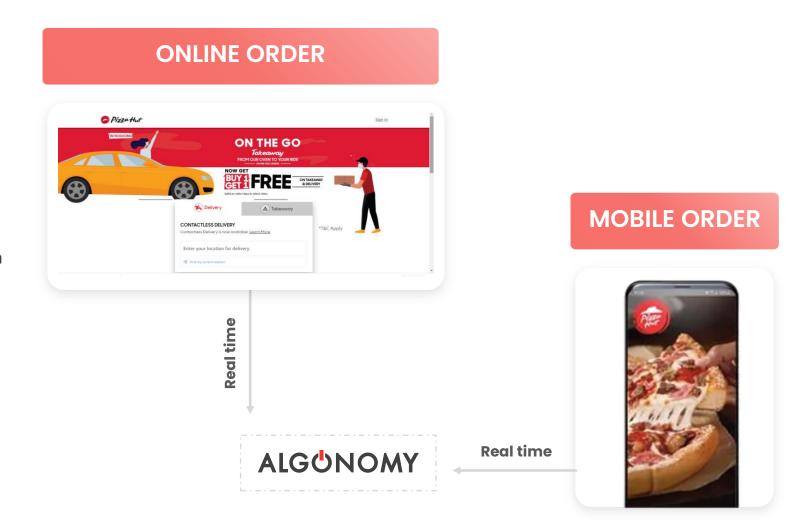
Key Take Away:

- Newly acquired customers during Apr-Jun have the lowest retention rate whereas prior existing customers have the highest retention.
- However on average sales and average visits, all segments saw improvement with newly joined being the highest whereas prior existing being the lowest
- The retention rate of customers acquired in April is the highest for the following month. However it dropped significantly after a couple of months



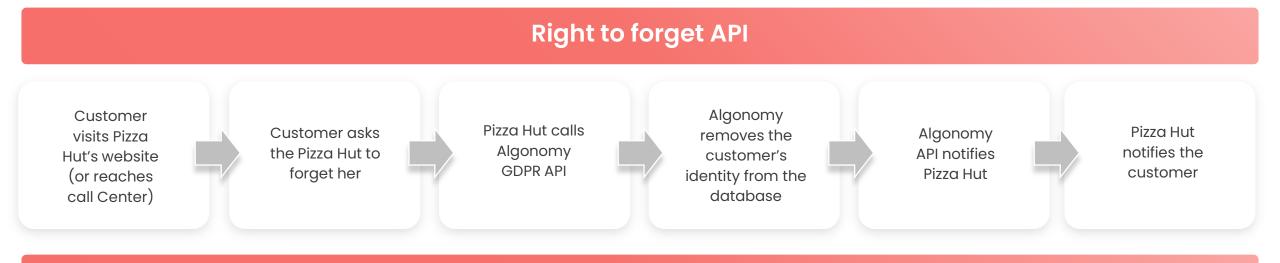
Real time visibility to enhance customer satisfaction

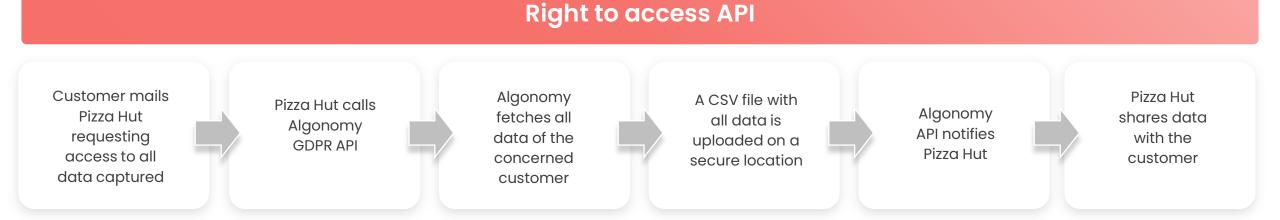
- Orders are integrated in real-time between Pizza-Hut online portal/mobile-app and Algonomy
- Call Center Agent has real-time visibility on
 - Customer Order
 - Last Five Orders
 - Customer Snapshot (giving view on which Segment, Lifetime value, Churn score etc.,)
- Assisting Call Center agent to take appropriate action (improved customer refund process time by nearly 70%)





Ensuring GDPR Compliance







Customer Speak....

"Algonomy has demonstrated its ability to understand our business and our customers and has the capability to deliver the highest levels of scalable technology innovation. The partnership with Algonomy has significantly boosted our operational and analytical efficiencies. Algonomy not only collated all our data from legacy systems to create a Single Source of Truth, but also created easier access to operational and performance metrics to give us quicker analytical turnaround times",

said Beverley D'Cruz, Chief Marketing Officer,

Pizza Hut Delivery - UK

ALGUNOMY

Thank You!