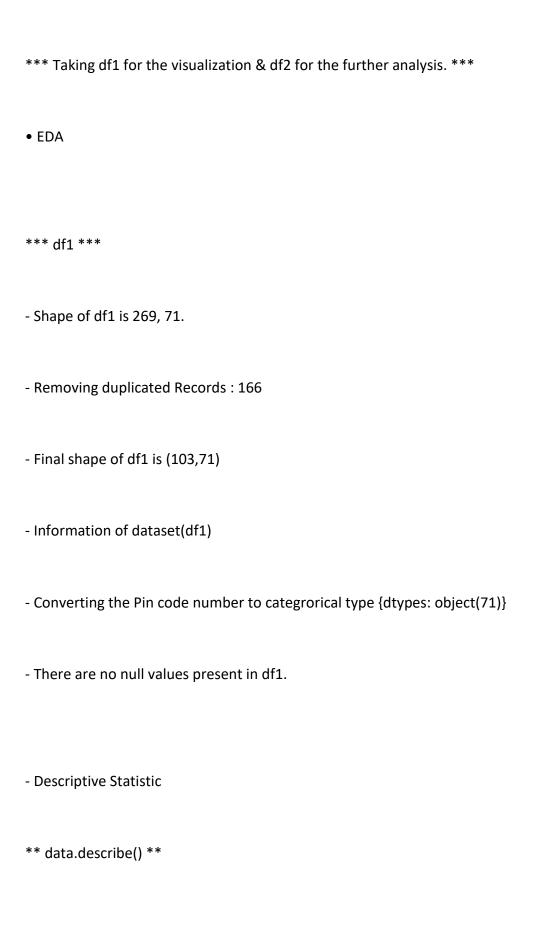
E-retail factors for customer activation and retention: A case study from Indian e-commerce customers

- The dataset is all about the online shopping website's reports and status, given by the customers.
- Our excel file contains 2 excel sheets:
1. Is the detailed excel file.
2. Encoded excel file.
TASK: To apply the data analysis and find the conclusion of data analysis.
- Importing the necessary libraries such as: pandas, NumPy, seaborn, matplotlib.
- Import our dataset.
1. df1 is the detailed sheet.
2. df2 is the encoded sheet.



1Gender of respondent 2 How old are you? 3 Which city do you shop online from? 4 What is the Pin Code of where you shop online from? 5 Since How Long You are Shopping Online? 6 How many times you have made an online purchase in the past 1 year?

18 The content on the website must be easy to read and understand 19
Information on similar product to the one highlighted is important for product comparison 20 Complete information on listed seller and product being offered is important for purchase decision. 21 All relevant information on listed products must be stated clearly

22 Ease of navigation in website 23 Loading and processing speed friendly Interface of the website 25 Convenient Payment methods 26 Trust that the online retail store will fulfill its part of the transaction at the stipulated time 27 Empathy (readiness to assist with queries) towards the customers 28 Being able to guarantee the 29 Responsiveness, availability of several communication privacy of the customer channels (email, online rep, twitter, phone etc.) 30 Online shopping gives monetary benefit and discounts 31 Enjoyment is derived from shopping online 32 Shopping online is convenient and flexible 33 Return and replacement policy of the e-tailer is important for purchase decision 34 Gaining access to loyalty programs is a benefit of shopping online

35 Displaying quality Information on the website improves satisfaction of customers

36 User derive satisfaction while shopping on a good quality website or application

37 Net Benefit derived from shopping online can lead to users satisfaction 38 User satisfaction cannot exist without trust 39 Offering a wide variety of listed product in several category 40 Provision of complete and relevant product information 41 Monetary savings 42 The Convenience of patronizing the online retailer 43 Shopping on the website gives you the sense of adventure 44 Shopping on your preferred e-tailer enhances your social status 45 You feel gratification shopping on your favorite e-tailer 46 Shopping on the website helps you fulfill certain roles 47 Getting value for money spent From the following, tick any (or all) of the online retailers you have shopped from; Easy to use website or Visual appealing web-page layout Wild variety of product on offer application

Complete, relevant description information of products Fast loading website speed of website and application Reliability of the website or application Quickness to

complete purchase Availability of several payment options Speedy order delivery Privacy									ry Privacy				
of customers' information Security of customer financial information Perceived													
Trustworthiness Presence of online assistance through multi-channel Longer time to													
get logged in (promotion, sales period) Longer time in displaying graphics and photos													
(promotion, sales period) Late declaration of price (promotion, sales period) Longer page													
loading time (promotion, sales period) Limited mode of payment on most products (promotion, sales period) Longer delivery period Change in website (Application													
(promotion, sales period) Longer delivery period Change in website/Application													
design Frequent disruption when moving from one page to another Website is as efficient										emcient			
as before Which of the Indian online retailer would you recommend to a friend?													
count	103	103	103	103	103	103	103	103	103	103	103	103	
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	103	103	103	103	103	103	103	103	103	103	103	103	
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	4	5	4	4	4	3	5	5	5	5	3	9	
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top	op Female21-30 years			Delhi	20130			Above 4 years Less t					
intern	iet	Smart	phone	Other	Others Window/windows Mobile					Google chrome Sear			
Engine Via application			more than 15 mins				·						
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	Stron	gly agre	e (5)	Strong	Strongly agree (5) Strongly agree (5) Strong						ly agree (5)		
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Agree (4) Agree (4) indifferent (3) indifferent (3) indifferent (3) Agree (4)													
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Flipkart.com		Myntra.com		Paytm.com		Snapd	eal.com	Amazon.in				
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freq	66	32	22	13	39	39	70	52	51	46	80	86
	34	48	59	64	49	60	40	38	54	51	45	72
	60	52	75	69	59	41	34	56	76	44	49	66
	61	47	42	48	59	55	42	39	38	35	57	36
	28	33	50	39	19	20	22	25	43	24	16	25
	24	18	25	30	27	33	32	38	21	35	28	

*** df2 ***

- Shape of df2 is 269, 71.

- Drop duplicated records 130

- Drop pin code number

- Shape after removing duplicates : (139,70)

There are no null values present in df2.

• Correlation.

** sns.heatmap(data.corr(), annot = True) **

Plotting the heatmap to see the multicollinearity between the columns.

t's seems there are alot of Mulicollinarity in the data.

Since all the columns are Categorical features therefor no outliers in the data