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## Introduction

**Recently, with development** people turning out for electronic shopping was increased. One of the shopping websites was put under study is gilt.com. when we examined this site, we found that it provides instant insider access to today's top designer labels at up to 70% of retail. Everyday there is different items for women, men, kids and home as well. Items for a certain collection are available on sales on the website and it introduces all of the qualitative descriptions for the items like color, brand, code, sales dates, and prices etc. so that the research represents specific a methodology in making analysis for online shopping data and drawing business insights from the provided data. There was two of an outstanding questions needed to be answered, the 1st was: what will all the data tell us? And the 2nd was: what insights can we gain? In order to assess this it was necessary to follow JAVA & Excel programs in analysis.



A)The curriculum followed before analysis :

columns. was removed.

**B)** The online shopping data was aggregated and configured by the **JAVA program for concluding results**.

**C)** Also used Microsoft office excel for cleaning data that is recorded in a wrong way Ex. when the item's supply price or it's sailing price equals to 0 or negative value or any data that won't lead to a result. **D)** Three factors was considered in this process : rate of selling , percent sale , brand or color.

# NEW VISION FOR A BUSINESS METHOD



1- The data from September 2008 through August 2015, and the contents of each column was understood after they got studied well.

2- Some of the columns was merged to each other and came up with new

**3- Rows that may contain any mistakes** 

4- Finally, rules was extracted.



rule is still not strong since the percent of its validity is 60.4 ((3653+722)/(3653+1259+1619+722)). 3\* the suggestion is to increase the amount of looks that are made of this material. 4\* the suggestion is to increase the amount of looks that are made of this category. 5\* the suggestion is to increase the amount of looks that are came from this origin id. 6\* look\_st\_rate for may is the highest among all months so suggestion increase the amount of sale on may. 7\* look\_st\_rate for august is the lowest among all months so suggestion to decrease the amount of sale on august. 8\* Increase the amount of looks for brand id 78,380,430 that came from country with id 301. 9\*Increase the amount of looks for brand id 1531 that came from country with id 334. 10\* Increase the amount of looks for brand id 702 and 1376 that came from country with id 349. 11\* Increase the amount of looks for brand id 39548 that came from country with id 384.



		look_st_rate/season_id	5272(s1)	>0.5	season 1: lo look st rate
30,702,1376,1531,39548		look st rate/season id	6805(s2)	>0.5	look_st_rate
	an and	look_st_late/season_iu	0805(82)	-0.5	look_st_rate
have the highest amount of sale neans that theses brands are th		look_st_rate/season_id	5294(s3)	>0.5	look_st_rate season 3: lo look_st_rate look_st_rate
380,702,1531 has a look st rate	greater	look_st_rate/season_id	2927(s4)	>0.5	look_st_rate season 4: lo look_st_rate look_st_rate
% of times when this brand has	U	look_st_rate/season_id	574 (s5)	>0.5	look_st_rate season 5: lo look_st_rate look_st_rate look_st_rate
int is greater than 50% on an it ite is grater than .5 in 84%, 78%		look_st_rate/season_id	350 (s6)	>0.5	season 6: lo look_st_rate look_st_rate look_st_rate
is brand has been on sale. num_skus 4 have a look_st_rat 86.9%,80.7% of the tin	te great- nes .	C) the mate most amour made from	nt of items	on sale th	at are
the most color with 4% of the items on sale		greater than sale items .			-
k_st_rate is greater than ales, which means that		the material amount of it			
nost of the customers		from it, whi			
5% of the items on sale		er than 0.5 i	n 80.7% o	of the look	sale
st_rate is greater than as on sale which means		items.			
ith high number of times					
whereas other colors are but has a higher rate		brand_id came from	are the <b>best con</b> <b>I:</b> the brands w n country with 7.3%,89.8% of n sale.	ith ids 78, 380 id 301 with lo	), 430 are th bok_st_rate
		country w	s with ids 702, with id 349 with 0.2% of the time	n look_st_rate	>= 0.5 in m
<b>9,1531 with material code 620f20771b</b> has a than 0.5 in more than 86%, 85% of the times, rese brands have the material code 620f20771b. 0,702 with material code c61f5b9f48 has a than 0.5 in more than 80%, 85%, 82% of the when these brands have the material code		sale. the brand with id 1531 is the best brands that cam id 334 with look_st_rate >= 0.5 in more than 86% these brands from country 334 are on sale. the brand with id 39548 is the best brands that can with id 384 with look_st_rate >= 0.5 in more than when these brands from country 384 are on sale.			
<b>_sort_key 3d197b2c27 with material code</b> .3%,71.4% of the times, respectively, when			U I		The branc

1\* we can see that in s1, s2, s3 the look sale rates is greater than .5 which means these seasons are better for sale that s5, s6 even though all values of rate still high. 2\* when joining season+rate+discount these results does not indicate any strong rule except for the first season we can say that as discount increases the rate increases and vice versa this

