



# Myntra Apparel Data Analysis and Insights

About the Company: Myntra is a fashionfocused e-commerce company based in India offering apparel, lifestyle, and personal care brands.

## 1. Data Pre-processing cleaning and standardization

## 2. Data Analysis

## 3. Data Retrieval and Lookup

### **Data Pre-processing**

### Client-Informed Data Issues and Applied Fixes:

- Resolving data redundancy: After converting data to table, check from duplicates at table level and in the primary key column.
   For Duplicate rows in table: Data Tab > Data Tools > Remove Duplicates > Select all
   For Duplicates in primary key column: Home Tab > Styles > Conditional Formatting > Highlight cells > Duplicate values, Sort and filter > Custom Sort > Sort by Primary key column and sort on cell color to highlight duplicates
- **2. Ensuring data consistency:** It was informed that the discount offer column is inconsistent, the following process was employed to standardize the column and ensure consistent values.
  - Different types of discrepancies were found out using unique function to narrow down scope

 Values were trimmed, applied with nested substitutes and trimmed again for further processing

 Conditionals used to find and convert percentages to discount offer values

```
=IF(
ISNUMBER(
FIND(
    "%",
    [@[Disc_offer_cleaned]]
)
), LEFT(
    [@[Disc_offer_cleaned]],
    SEARCH(
    "%",
     [@[Disc_offer_cleaned]]
) - 1
) / 100 * [@[OriginalPrice (in Rs)]],
    [@[Disc_offer_cleaned]]
```

## **Data Pre-processing**

- **3. Applying Category-aware data imputation:** Discount price column had blanks, they were replaced using discount values calculated in the previous step by the following process:
  - Discount values were converted back to percentages and the data type was changed to general to use for calculations.
  - Since there were blanks in this column as well, iferror function was used to retain blanks for this step

```
=IFERROR(
([@Disc_values]
/[@[OriginalPrice) * 100,""
)
```

 The blanks in discount percent column thus created were filled using average by categories:

```
=IF(
    [@[Disc_Percent_w_nulls]] = "",
    AVERAGEIFS(
      [Disc_Percent_w_nulls],
      [Category],
      [@Category]
),
    [@[Disc_Percent_w_nulls]]
)
```

 Then the following conditional was employed to fill blanks in discount price column and the values were rounded off.

```
=FLOOR.MATH(

IF(

[@[DiscountPrice_in_Rs]] = "",

[@[OriginalPrice (in Rs)]] -

([@[Discount_Percent_wo_nulls]]

/ 100 ) * [@[OriginalPrice]],

[@[DiscountPrice_in_Rs]]
)
```

**4. Handling Nulls:** Null values, if any in the sizes column were to be found and replaced by "Not Available". But upon querying using the quick sort button on the table, no blanks were found.

### **Data Pre-processing**

### Report

### 1. Resolving data redundancy

- No duplicate rows were detected in the data
- Primary key column had no duplicates

### 2. Ensuring data consistency

 <u>Discount offer</u> column was standardized, it was decided to convert percentages to actual values to maintain consistency and feasibility for analysis

### 3. Applying Category-aware data imputation

- The blank cells in the <u>discount price</u> column were filled by first converting <u>discount offer</u> column to percentages and taking it's average as per product categories
- It was decided to use the average of percent rather than the actual <u>discount offer</u> values to avoid influence of large variation and outliers in the actual values. Percentages provided a better average estimate.
- Blank values were filled in the discount price column using conditionals.

#### 4. Handling nulls

• Upon checking the <u>sizes</u> column it was discovered that there were no null values to be replaced by "Not available" text.





Myntra Apparel
Data Analysis and Insights

## 1. Data pre-processing cleaning and standardization

## 2. Data Analysis

3. Data retrieval and lookup

## **Data Analysis**

### **Client-Informed Analysis Requirements**

 Overall Average
 Original Price of High-Rated Products
 2. Discount Depth
Analysis: Products
with >50% OFF

3. Inventory Availability: Products in Size 'M'

4. Binary Classification of Discount Offers

```
=AVERAGEIF(
   Table1[Ratings],
   ">4",
   Table1[OriginalPrice (in Rs)]
)
```

```
=COUNTIF(
    Table1[Discount_Percent_wo
_nulls],
    ">50"
)
```

=COUNTA(
Table1[Column1]
) COUNTBLANK(
Table1[Column1]

=IF(
 [@[Discount\_Percent\_wo\_nu
Ils]] > 50,
 "High Discount",
 "Low Discount"
)

Rs. 1618

**Count: 3308** 

**Count: 3693** 

High Disc.: 3308 Low Disc.: 2249





Myntra Apparel
Data Analysis and Insights

## 1. Data pre-processing cleaning and standardization

## 2. Data Analysis

## 3. Data Retrieval and Lookup

### **Data Retrieval and Lookup**

### **Specific Retrieval requests:**

 Use XLOOKUP to find the product brand, price, and rating of the product with Product\_id "11226634"

```
=XLOOKUP(
    11226634,
    Table1[Product_id],
    CHOOSE(
    { 1,2,3},
        Table1[BrandName],
        Table1[OriginalPrice (in Rs)],
        Table1[Ratings]
    )
)
```

Maniac ,1199, 3.9

2. Find the "DiscountPrice" for the product with the Product ID "6744434" using the INDEX and MATCH functions

```
=INDEX(
    Table1[Discount_price],
    MATCH(
        6744434,
        Table1[Product_id],
        0
    )
)
```

Rs. 599

3. Utilize nested xlookup to find any column's detail of a product with it's product id.

```
=XLOOKUP(
   Al18,
   Table1[Product_id],
   XLOOKUP(
    AH18,
    Table1[#Headers],
    Table1
   ))

   Create Data Validation Lists for both axes
```

## Data Retrieval and Lookup

### Appendix A

#### 1. Reference screenshot from Excel workbook

1 URL	Product_id BrandName	Category ×	Individual_category	category_by C	)iscot <b>▼</b> Orig	inalP Discount(	Disc_N	Colur Disc	P( v	Discount_ SizeOption C	Colu ▼ Ratin	g ▼ Revi	▼ Disc( ▼	Disc ✓ Column ✓ I	DiscountPrice
2 https://w	v 2296012 Roadster	Bottom We	ε jeans	Men	824	1499 45% OFF	45%	674.55	45	45 28, 30, 32, 34,		3.9 9	99 824	824 Low Discoul	oothNotNull
3 https://w	v 13780156 LOCOMOTIVE	Bottom We	ε track-pants	Men	517	1149 55% OFF	55%	631.95	55	55 S, M, L, XL	4	4 9	99 517	517 High Discoul	oothNotNull
4 https://w	v 11895958 Roadster	Topwear	shirts	Men	629	1399 55% OFF	55%	769.45	55	55 38, 40, 42, 44,		4.3 9	99 629	629 High Discoul	oothNotNull
5 https://w	v 4335679 Zivame	Lingerie & S	l shapewear	Women	893	1295 31% OFF	31%	401.45	31	31 S, M, L, XL, XXI	4	4.2 9	99 893	893 Low Discoub	oothNotNull
6 https://w	v 11690882 Roadster	Western	tshirts	Women		599 35% OFF	35%	209.65	35	35 XS, S, M, L, XL	8	4.2 9	99	389 Low Discoul	oothNotNull
7 https://w	v 2490950 Mast & Harbou	ı Western	tops	Women		599 40% OFF	40%	239.6	40	40 XS, S, M, L, XL	8	4.4 9	99	359 Low Discoub	oothNotNull
8 https://w	v 6744434 HIGHLANDER	Bottom We	a trousers	Men	599	1499 60% OFF	60%	899.4	60	60 30, 32, 34, 36		3.9 9	98 599	599 High Discoub	oothNotNull
9 https://w	v 8439415 Mayra	Western	tops	Women		1395 58% OFF	58%	809.1	58	58 S, M, L, XL	4	3.7 9	98	585 High Discoub	oothNotNull
10 https://w	v 17381394 Roadster	Western	tshirts	Women		1098				52.9790969 XS, S, M, L, XL	8	4.3 9	97	516 High Discoul	oothNull
11 https://w	v 2359257 HERE&NOW	Bottom We	e jeans	Men		2749				53.2762689 28, 30, 32, 34,		3.5 9	96	1284 High Discoub	oothNull
12 https://w	v 7695793 HRX by Hrithik	F Sports Wea	r tights	Men	1214	2699 55% OFF	55%	1484.5	55	55 S, M, L, XL, XXI	4	4.4 9	96 1214	1214 High Discoub	oothNotNull
13 https://w	v 10307375 Roadster	Topwear	tshirts	Men		699				53.0202632 XS, S, M, L, XL,	8	4.1 9	96	328 High Discoub	oothNull
14 https://w	v 12873874 Anubhutee	Indian Wea	r kurta-sets	Women	1019	3399 70% OFF	70%	2379.3	70	70 S, M, L, XL, XXI	4	4.2 9	96 1019	1019 High Discoub	oothNotNull
15 https://w	v 11634538 Athena	Western	jumpsuit	Women		2499 50% OFF	50%	1249.5	50	50 XS, S, M, L, XL	8	4.3 9	96	1249 Low Discoub	oothNotNull
16 https://w	v 2312181 Roadster	Western	tshirts	Women		799 60% OFF	60%	479.4	60	60 XS, S, M, L, XL	8	4 9	96	319 High Discoul	oothNotNull
17 https://w	v 13842386 HIGHLANDER	Topwear	shirts	Men	516	1099 53% OFF	53%	582.47	53	53 39, 40, 42, 44		4.2 9	95 516	516 High Discoul	oothNotNull
18 https://w	v 10473520 Vishudh	Indian Wea	r kurtas	Women	696	1699 59% OFF	59%	1002.4	59	59 S, M, L, XL, XXI	4	4.2 9	95 696	696 High Discoul	oothNotNull
19 https://w	v 10561392 Sangria	Plus Size	kurta-sets	Women		3999				61.3178723 XS, S, M, L, XL,	8	4.3 9	95	1546 High Discoub	oothNull
20 https://w	v 12391750 Tokyo Talkies	Western	trousers	Women		2149 61% OFF	61%	1310.9	61	61 28, 30, 32, 34		<b>4.1</b> 9	95	838 High Discoub	oothNotNull
21 https://w	vv 2522986 DressBerry	Western	tshirts	Women		999 75% OFF	75%	749.25	75	75 XS, S, M, L, XL	8	4.3 9	95	249 High Discoub	oothNotNull
22 https://w	v 17385142 Roadster	Western	tshirts	Women		1298				52.9790969 XS, S, M, L, XL	8	4.4 9	94	610 High Discoul	oothNull
23 https://w	v 12153330 Anouk	Indian Wea	r kurtas	Women	719	1599 55% OFF	55%	879.45	55	55 XS, S, M, L, XL,	8	3.8 9	93 719	719 High Discoul	oothNotNull
24 https://w	v 1864573 Enamor	Lingerie & S	l bra	Women		849				43.9665201 S, M, L, XL	4	4.2 9	93	475 Low Discoul	oothNull
25 https://w	v 13205276 all about you	Western	shirts	Women		1499 50% OFF	50%	749.5	50	50 XS, S, M, L, XL	8	4.2 9	93	749 Low Discoul	oothNotNull
26 https://w	v 11535928 KASSUALLY	Western	tops	Women		1299 62% OFF	62%	805.38	62	62 XS, S, M, L, XL,	8	4.3 9	92	493 High Discoul	oothNotNull
27 https://w	v 6552977 RARE	Western	tops	Women		1299 57% OFF	57%	740.43	57	57 S, M, L, XL	4	4.2 9	91	558 High Discoub	oothNotNull