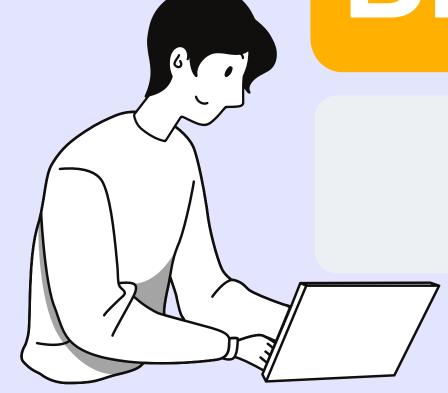
# Analisis Produk, Brand, Deskripsi

Data GoFood from kaggle



#### Business Understanding • • • •



Variabel

merchant\_name
merchant\_area
category
display
product
price
discount\_price
isDiscount
description

sales order adalah dokumen penawaran penjualan tertulis yang mengonfirmasi penjualan atas suatu barang/jasa. Informasi tersebut berupa nama produk, jenis produk, harga produk, potongan harga jika ada, tampilan produk, deskripsi produk, serta informasi lain yang berkaitan dengan transaksi tersebut.

# GOALS

**1** ) Kuantitas Brand Order

Analisis Area, Brand dan Diskon

Kuantitas Order /
Kategori Produk

**5** Analisis Deskripsi Produk

Kuantitas Order /
Diskon-Area-Brand

(6) Klaster Produk

# Data Understanding

#### tipe data variabel

#	Column	Non-Null Count	Dtype	
0	merchant_name	45195 non-null	object	
1	merchant_area	45195 non-null	object	
2	category	45195 non-null	object	
3	display	45195 non-null	object	
4	product	45195 non-null	object	
5	price	45195 non-null	float64	
6	discount_price	2738 non-null	float64	
7	isDiscount	45195 non-null	int64	
8	description	21720 non-null	object	
<pre>dtypes: float64(2), int64(1), object(6)</pre>				
memory usage: 3.1+ MB				

#### missing value (persen)

discount_price	93.941808
description	51.941586
merchant_name	0.000000
merchant_area	0.000000
category	0.000000
display	0.000000
product	0.000000
price	0.000000
isDiscount	0.000000

#### variasi variabel

```
V merchant_name sebanyak 687
V merchant_area sebanyak 3
V category sebanyak 333
V display sebanyak 2986
V product sebanyak 23917
V price sebanyak 1769
V discount_price sebanyak 553
V isDiscount sebanyak 2
V description sebanyak 12362
```

#### Data Preprocessing

1. filter data untuk data diskon dan data deskripsi

```
data_with_desc_disc = data.copy()
discprice = data_with_desc_disc[data_with_desc_disc.discount_price.notnull()]
datadesc = data_with_desc_disc[data_with_desc_disc.description.notnull()]
```

2. split variabel, hapus missing value

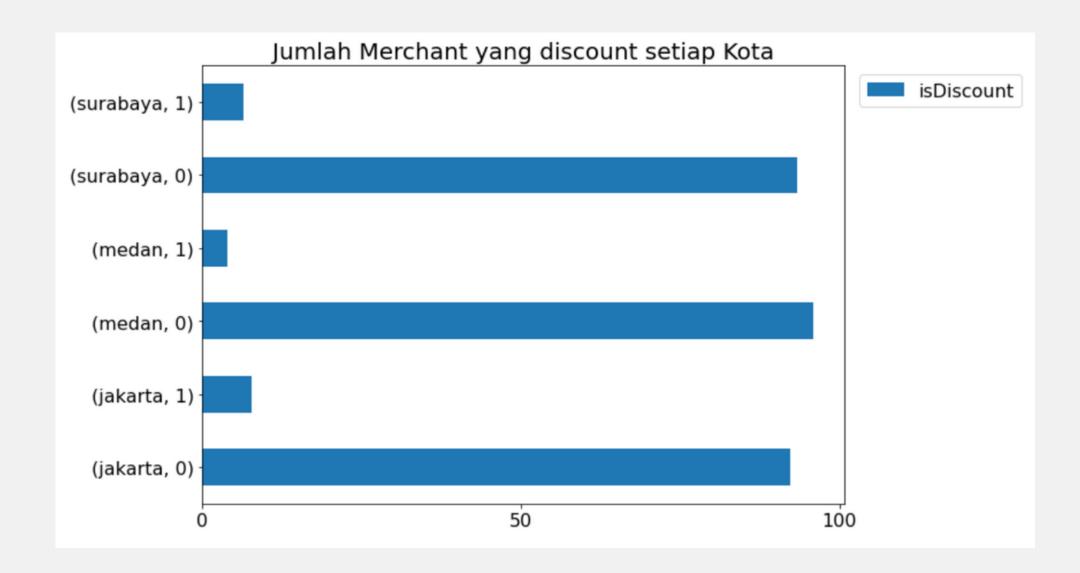
```
data[['Brand','Lokasi']] = data['merchant_name'].str.split(',',expand=True,n=2)
data.drop(['discount_price','description'],axis=1,inplace=True)
data.head()
```

3. #membuat Lowercase
data = data.apply(lambda x: x.astype(str).str.lower())

#hapus tanda baca
data['Brand'] = data['Brand'].str.replace(r'[^\w\s]+', '')
data['display'] = data['display'].str.replace(r'[^\w\s]+', '')

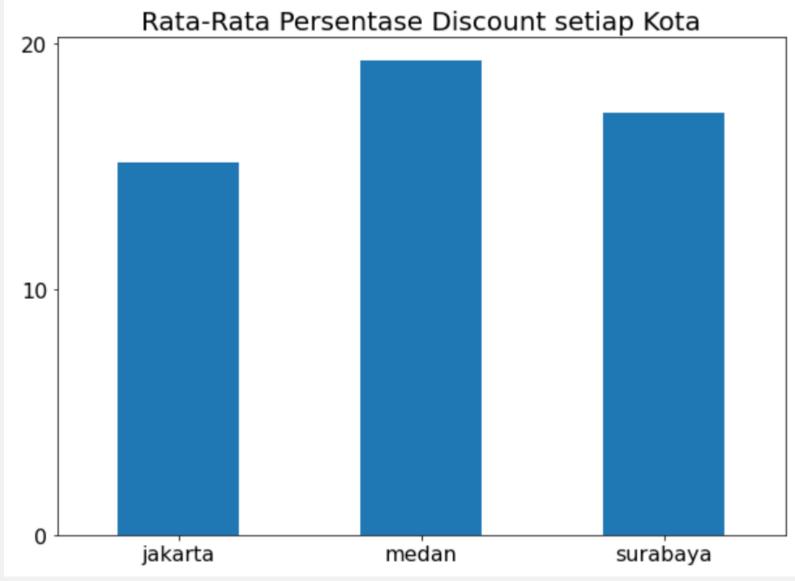
#hapus whitespace
data = data.apply(lambda x: x.astype(str).str.strip())

#### EDA-1



- jumlah merchant jakarta lebih banyak **mengadakan diskon** dibanding kota medan dan surabaya
- jumlah merchant medan lebih banyak **memberikan harga normal** dibanding kota jakarta dan surabaya

- rata-rata persentase diskon di medan lebih besar dibandingkan surabaya dan jakarta



### Rata-rata persentase diskon Brand tertinggi

Jakarta Medan Surabaya

```
perc disc
              Brand
         Starbucks
                   35.654214
         XXI Cafe
                   34.242424
         Cinepolis
                    31.250000
    Golden Lamian
                   30.769231
         Xi Bo Ba
                   30.555556
           XIBOBA
                   30.555556
        FamilyMart
                   28.512657
    Murabae Bento
                   27.914286
    Corndog Doona
                    25.921414
Sosis Bakar Gangan
                    23.529412
```

```
perc disc
                    Brand
          Ahmeds Kitchen
                          39.460069
               Starbucks
                          35.654214
Grand Liberty Restaurant
                          34.993939
    Bolen Quemami Bakery
                          33.173363
         Shawarma Sultan
                          32.071980
                         29.435631
           Warung Jivano
                Xi Bo Ba
                          26.829268
         Siomay Podomoro
                         24.935931
                  Kokumi
                          22.981920
               Sushi Yay
                          22.668969
```

```
perc disc
                  Brand
              Wingstop
                        33.302453
                KOKUMI
                        32.857143
        Lapis Srikandi
                       31.919192
                XIBOBA
                        30.555556
      Kedai Es Juragan
                        28.897357
         Cosmic Coffee
                        27.157895
          Boga Kitchen
                        26.086406
                Toby's
                        26.042194
               Subsidi
                        25.454897
KEBULI JORDAN SURABAYA
                        25.000000
```

```
mean = 15.17%
min = 0.72%
max = 56.14%
```

```
mean = 19.27%
min = 2.29%
max = 68.18%
```

mean = 17.18% min = 1.78% max = 52.72%

merchant_area	jakarta	medan	surabaya
Brand			
lawson	1795	0	0
mcdonalds	905	125	250
dapur cokelat	549	0	0
michelle bakery	474	0	0
kfc	393	400	63

merchant_area	jakarta	medan	surabaya
Brand			
holland bakery	240	0	594
kampoeng roti	0	0	331
haus	0	0	273
satria roti	0	0	257
warung pindo	0	0	254

MOST	<b>BRAND</b>
<b>REPEA</b>	T ORDER

JAKAKIA	merchant_area	jakarta	med

merchant_area	jakarta	medan	surabaya
Brand			
choco bakery	0	592	0
bika ambon zulaikha	0	435	0
zeribowl	0	426	0
kfc	393	400	63
chicken crush	0	400	0

SURABAYA

merchant_area	jakarta	medan	surabaya
Brand			
mcdonalds	905	125	250
kfc	393	400	63
menantea	280	40	116
burger bros	229	69	69
dear butter	26	26	54

MEDAN

JKT-MDN-SBY

merchant_area	jakarta	medan	surabaya
Brand			
lawson	8	0	0
keikpop	7	0	1
menantea	7	1	2
kfc	5	4	1
mcdonalds	4	1	1

merchant_area	jakarta	medan	surabaya
Brand			
haus	0	0	3
suweger	0	0	3
xiboba	3	0	3
kampoeng roti	0	0	3
satria roti	0	0	2

MOST	<b>BRAND</b>
MER	CHANT

JAKARTA

merchant_area	jakarta	medan	surabaya
Brand			
kfc	5	4	1
zeribowl	0	3	0
qiuqiunian	0	3	0
sippin	0	3	0
chicken crush	0	3	0

SURABAYA

merchant_area	jakarta	medan	surabaya
Brand			
menantea	7	1	2
kfc	5	4	1
mcdonalds	4	1	1
burger bros	2	1	1
dear butter	1	1	1

MEDAN

JKT-MDN-SBY

Kota	Kategori	jumlah merchant
jakarta	minuman	35
jakarta	jajanan	32
jakarta	cepat saji	24
jakarta	sweets	21
jakarta	aneka nasi	20
Kota	Kategori	jumlah merchant
	<b>Kategori</b> minuman	jumlah merchant 56
surabaya		jumlah merchant 56 46
surabaya surabaya	minuman	56
surabaya surabaya surabaya	minuman jajanan	56 46

# **Most Merchant Category**

Kota	Kategori	jumlah merchant
medan	jajanan	43
medan	minuman	41
medan	aneka nasi	30
medan	cepat saji	24
medan	kopi	19

#### FILTER FOR DESCRIPTION ANALYSIS;

'MINUMAN','JAJANAN','ANEKA NASI','CEPAT SAJI','ROTI','KOPI'

Brand	Kategori	Kota
[lawson, kancha, menantea]	minuman	jakarta
[lawson, chateraise, menantea]	jajanan	jakarta
[lawson, restoran sederhana, mie djoedes]	aneka nasi	jakarta
[mcdonalds, kfc, pancong lumer]	cepat saji	jakarta
[michelle bakery, bunga bakery, bakerman]	roti	jakarta
[kaka udon, golden lamian, bakmi lopui 93]	bakmie	jakarta
[familymart, starbucks, have a treat]	kopi	jakarta
[lawson, hokben, ramen giant]	jepang	jakarta

Kota	Kategori	Brand
surabaya	minuman	[haus, kedai refftwo, suweger]
surabaya	jajanan	[kebab bosman, mcdonalds, stepup donut]
surabaya	aneka nasi	[warung pindo, order sekaligus aiola canteen
surabaya	cepat saji	[tobys, mcdonalds, burger king]
surabaya	roti	[holland bakery, kampoeng roti, satria roti]
surabaya	bakmie	[colours cafe cc, markas ranjau, post kuliner]
surabaya	kopi	[pabrik kopi, belikopi, belikopi ponti]
surabaya	jepang	[sushikun, boga kitchen, hokben]

# Most Brand Category Order

Kategori	Brand
minuman	[rumah ide coffee, sippin, taman bakso dangdut]
jajanan	[bika ambon zulaikha, zeribowl, k3 mart]
aneka nasi	[sobat, restaurant miramar, copa coffee]
cepat saji	[kfc, chicken crush, mcdonalds]
roti	[choco bakery, suans bakery, raihan bakery]
bakmie	[mie aceh jal, bakmie sedap siantar, bakmie ke
kopi	[starbucks, hrd coffee shop, the cups]
jepang	[sushi mentai, sushi yay, zenbu]
	minuman jajanan aneka nasi cepat saji roti bakmie kopi

# Jakarta Medan Surabaya



# WordCloud for all product order



## Cluster for all product order

chicken, ice, cheese, tea, milk, paket, chocolate, coffee, latte, burger Produk klaster 1

Produk klaster 2 rice, goreng, chicken, egg, fried, mie, bakar, geprek, putih, paket

#### Product Cluster

chicken, rice, goreng, tea, ice, cheese, chocolate, egg, latte, coffee

Medan klaster

Medan klaster 2 milk, tea, coffee, brown, sugar, boba, ice, fresh, bubble, cheese

chicken, cheese, tea, chocolate, rice, milk, burger, sapi, paket, medium

Jakarta klaster 1

Jakarta klaster 2 ice, latte, coffee, tea, milk, matcha, caramel, vanilla, sandwich, mocha

ice, tea, chocolate, cheese, roti, rice, milk, goreng, paket, coffee

Surabaya klaster 1 Surabaya klaster 2

chicken, rice, goreng, geprek, burger, wings, crispy, mie, truffle, paket