# **Amazon-orders Project**

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AIM:
1.How much I spent on Amazon during this period.
2.What my highest, lowest, and average order totals were.
3.How much tax I paid, and the effective sales tax rate I paid.
4.How my spending fluctuated over time.
5.On which days I spent the most money.
BY: RUDRA PRATAP PADHI

In [1]: import pandas as pd
%matplotlib inline

In [2]: df = pd.read_csv(r'C:\Users\Rudra Pratap\Desktop\CSV\amazon-orders.csv')
```

In [3]: df.head()

## Out[3]:

	Order Date	Order ID	Payment Instrrument Type	Website	Purchase Order Number	Ordering CustoOdishar Email	Shipment Date	Shipping Address Name	Shipping Address Street 1	Shipping Address Street 2	 Order Status	C T I
0	04- 01- 2019	112- 0000000- 0000001	Mastercard - 0001	Amazon.com	NaN	rud*******@gmail.com	04-01- 2019	Cutm,BBSR	Cutm,Jatni,BBSR	NaN	 Shipped	OSP
1	04- 01- 2019	112- 0000000- 0000002	Mastercard - 0001	Amazon.com	NaN	rud*******@gmail.com	04-01- 2019	Cutm,BBSR	Cutm,Jatni,BBSR	NaN	 Shipped	OSP
2	04- 01- 2019	112- 0000000- 0000003	Mastercard - 0001	Amazon.com	NaN	rud*******@gmail.com	04-01- 2019	Cutm,BBSR	Cutm,Jatni,BBSR	NaN	 Shipped	OSP
3	04- 04- 2019	112- 0000000- 0000004	Mastercard - 0001	Amazon.com	NaN	rud*******@gmail.com	04-05- 2019	Cutm,BBSR	Cutm,Jatni,BBSR	NaN	 Shipped	OSP
4	04- 05- 2019	112- 0000000- 0000005	Mastercard - 0001	Amazon.com	NaN	rud*******@gmail.com	04-07- 2019	Cutm,BBSR	Cutm,Jatni,BBSR	NaN	 Shipped	OSP

5 rows × 23 columns

4

In [4]: df.shape

Out[4]: (59, 23)

## Out[5]:

	Order Date	Order ID	Payment Instrrument Type	Website	Purchase Order Number	Ordering CustoOdishar Email	Shipment Date	Shipping Address Name	Shipping Address Street 1	Shipping Address Street 2	 Order Status	C T I
0	04- 01- 2019	112- 0000000- 0000001	Mastercard - 0001	Amazon.com	0.0	rud*******@gmail.com	04-01- 2019	Cutm,BBSR	Cutm,Jatni,BBSR	0.0	 Shipped	OSP
1	04- 01- 2019	112- 0000000- 0000002	Mastercard - 0001	Amazon.com	0.0	rud*******@gmail.com	04-01- 2019	Cutm,BBSR	Cutm,Jatni,BBSR	0.0	 Shipped	OSP
2	04- 01- 2019	112- 0000000- 0000003	Mastercard - 0001	Amazon.com	0.0	rud*******@gmail.com	04-01- 2019	Cutm,BBSR	Cutm,Jatni,BBSR	0.0	 Shipped	OSP
3	04- 04- 2019	112- 0000000- 0000004	Mastercard - 0001	Amazon.com	0.0	rud*******@gmail.com	04-05- 2019	Cutm,BBSR	Cutm,Jatni,BBSR	0.0	 Shipped	OSP
4	04- 05- 2019	112- 0000000- 0000005	Mastercard - 0001	Amazon.com	0.0	rud*******@gmail.com	04-07- 2019	Cutm,BBSR	Cutm,Jatni,BBSR	0.0	 Shipped	OSP

5 rows × 23 columns

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### Out[6]:

	Order Date	Order ID	Payment Instrrument Type	Website	Purchase Order Number	Ordering CustoOdishar Email	Shipment Date	Shipping Address Name	Shipping Address Street 1	Shipping Address Street 2	 Order Status	C T I
0	04- 01- 2019	112- 0000000- 0000001	Mastercard - 0001	Amazon.com	0.0	rud*******@gmail.com	04-01- 2019	Cutm,BBSR	Cutm,Jatni,BBSR	0.0	 Shipped	OSP
1	04- 01- 2019	112- 0000000- 0000002	Mastercard - 0001	Amazon.com	0.0	rud*******@gmail.com	04-01- 2019	Cutm,BBSR	Cutm,Jatni,BBSR	0.0	 Shipped	OSP
2	04- 01- 2019	112- 0000000- 0000003	Mastercard - 0001	Amazon.com	0.0	rud*******@gmail.com	04-01- 2019	Cutm,BBSR	Cutm,Jatni,BBSR	0.0	 Shipped	OSP
3	04- 04- 2019	112- 0000000- 0000004	Mastercard - 0001	Amazon.com	0.0	rud*******@gmail.com	04-05- 2019	Cutm,BBSR	Cutm,Jatni,BBSR	0.0	 Shipped	OSP
4	04- 05- 2019	112- 0000000- 0000005	Mastercard - 0001	Amazon.com	0.0	rud*******@gmail.com	04-07- 2019	Cutm,BBSR	Cutm,Jatni,BBSR	0.0	 Shipped	OSP

5 rows × 23 columns

4

In [7]: df["Total Charged in Rupees"].sum()

Out[7]: 134313.0

```
In [8]: df["Total Charged in Rupees"].mean()
 Out[8]: 2276.491525423729
 In [9]: df["Total Charged in Rupees"].median()
 Out[9]: 1124.25
In [10]: df["Total Charged in Rupees"].max()
Out[10]: 15824.25
In [11]: df["Total Charged in Rupees"].min()
Out[11]: 39.0
In [12]: df["Tax Charged in Rupees"].sum()
Out[12]: 3945.75
In [13]: df["Tax Charged in Rupees"].sum() / df["Total Charged in Rupees"].sum()
Out[13]: 0.02937727546849523
```

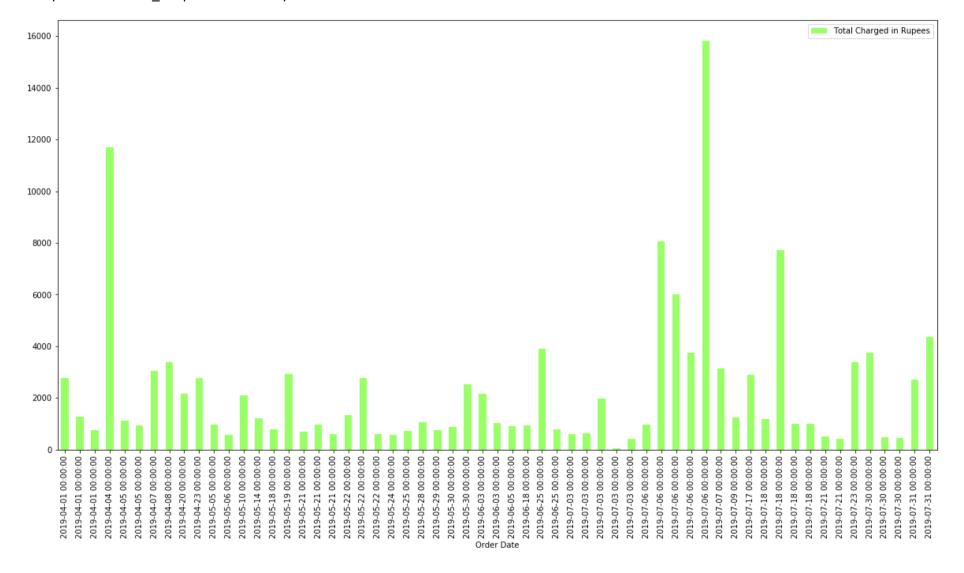
### Out[14]:

	Order Date	Order ID	Payment Instrrument Type	Website	Purchase Order Number	Ordering CustoOdishar Email	Shipment Date	Shipping Address Name	Shipping Address Street 1	Shipping Address Street 2	 Order Status	C T I
0	2019- 04-01	112- 0000000- 0000001	Mastercard - 0001	Amazon.com	0.0	rud*******@gmail.com	04-01- 2019	Cutm,BBSR	Cutm,Jatni,BBSR	0.0	 Shipped	OSP
1	2019- 04-01	112- 0000000- 0000002	Mastercard - 0001	Amazon.com	0.0	rud*******@gmail.com	04-01- 2019	Cutm,BBSR	Cutm,Jatni,BBSR	0.0	 Shipped	OSP
2	2019- 04-01	112- 0000000- 0000003	Mastercard - 0001	Amazon.com	0.0	rud*******@gmail.com	04-01- 2019	Cutm,BBSR	Cutm,Jatni,BBSR	0.0	 Shipped	OSP
3	2019- 04-04	112- 0000000- 0000004	Mastercard - 0001	Amazon.com	0.0	rud*******@gmail.com	04-05- 2019	Cutm,BBSR	Cutm,Jatni,BBSR	0.0	 Shipped	OSP
4	2019- 04-05	112- 0000000- 0000005	Mastercard - 0001	Amazon.com	0.0	rud******@gmail.com	04-07- 2019	Cutm,BBSR	Cutm,Jatni,BBSR	0.0	 Shipped	OSP

5 rows × 23 columns

In [15]: df.plot.bar(x='Order Date',y='Total Charged in Rupees',rot=90,figsize=(20,10),color='#99ff66')

Out[15]: <matplotlib.axes.\_subplots.AxesSubplot at 0x2557207a048>



```
In [16]: daily orders = df.groupby('Order Date').sum()["Total Charged in Rupees"]
         daily orders.head(56)
Out[16]: Order Date
         2019-04-01
                         4793.25
         2019-04-04
                        11709.00
         2019-04-05
                         2073.00
         2019-04-07
                         3047.25
                         3374.25
         2019-04-08
         2019-04-20
                         2160.00
         2019-04-23
                         2781.00
         2019-05-05
                          974.25
         2019-05-06
                          570.00
         2019-05-10
                         2099.25
         2019-05-14
                        1212.00
         2019-05-18
                         787.50
         2019-05-19
                         2916.75
                         2281.50
         2019-05-21
         2019-05-22
                         4705.50
         2019-05-24
                         575.25
         2019-05-25
                         735.00
                         1046.25
         2019-05-28
                         749.25
         2019-05-29
         2019-05-30
                         3403.50
         2019-06-03
                         3215.25
                         919.50
         2019-06-05
         2019-06-18
                          948.00
         2019-06-25
                         4693.50
                         3651.00
         2019-07-03
                        34602.00
         2019-07-06
         2019-07-07
                         3147.75
                        1234.50
         2019-07-09
         2019-07-17
                         2887.50
         2019-07-18
                        10941.00
         2019-07-21
                         945.75
                         3396.75
         2019-07-23
                        4674.75
         2019-07-30
         2019-07-31
                         7062.00
         Name: Total Charged in Rupees, dtype: float64
```

In [17]: daily\_orders.plot.bar(figsize=(20, 10), color='#ff99ff')

Out[17]: <matplotlib.axes.\_subplots.AxesSubplot at 0x255730a1248>

