SALES_PIPELINE DATASET

Few lines describe about sales pipeline

#1.A sales pipeline is an organized, visual way of tracking potential buyers as they progress through different stages in the

#purchasing process and buyer's journey.

#2.pipelines are visualized as a horizontal bar (sometimes as a funnel) divided into the various stages of a company's sales process.

#3.Leads and prospects are moved from one stage to the next as they maneuver through the sales process.

#4.e.g. when reps receive a response to outreach like a cold email or when a potential customer is marked as a qualified or unqualified lead.

#6 stage of sales pipeline:-

#1.generate new lead.

#2.Qualifying prospects.

#3.Engaging with a lead.

#4.Building a relationship.

#5.Negotiating with the lead.

#6.Closing the deal -->

Import usefull python library

```
import warnings
warnings.filterwarnings("ignore")
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
import plotly.io as pio
sns.set_theme(style="darkgrid")
link="C:\\Users\\rites\\Downloads\\sales_pipeline.csv"
sp= pd.read_csv(link)
```

checking the top 10 columns of the dataset

S	o.head()	·			
\	opportunity_id	sales_agent	product	account	deal_stage
ò	1C1I7A6R	Moses Frase	GTX Plus Basic	Cancity	Won
1	Z0630YW0	Darcel Schlecht	GTXPro	Isdom	Won
2	EC4QE1BX	Darcel Schlecht	MG Special	Cancity	Won
3	MV1LWRNH	Moses Frase	GTX Basic	Codehow	Won
4	PE84CX40	Zane Levy	GTX Basic	Hatfan	Won
0	starting_date 2016-10-20	close_date close 2017-03-01	e_value 1054.0		
1 2	2016-10-25	2017-03-11	4514.0		
2		2017-03-07 2017-03-09	50.0 588.0		
4	2016-10-25	2017-03-09	517.0		

checking the bottom 10 columns of the dataset

<pre>sp.tail()</pre>						
opport deal stage	tunity_id \	Ş	sales_agen	t	product	account
8795 Prospecting	9MIWFW5J	Versie	Hillebran	d MG	Advanced	NaN
8796 Prospecting	6SLKZ8FI	Versie	Hillebran	d MG	Advanced	NaN
8797 Prospecting	LIB4KUZJ	Versie	Hillebran	d MG	Advanced	NaN
8798 Prospecting	18IUIUK0	Versie	Hillebran	d MG	Advanced	NaN
8799 Prospecting		Versie	Hillebran	d MG	Advanced	NaN
engage 8795	e_date clo NaN	se_date NaN	_	lue NaN		
8796 8797	NaN NaN	NaN		NaN NaN		
8798 8799	NaN NaN	NaN NaN		NaN NaN		

checking the shape of the dataset

```
sp.shape
(8800, 8)
```

checking the column name of the dataset

show the type dataset

```
print(type(sp))
<class 'pandas.core.frame.DataFrame'>
```

show the null column

show information of the datset

```
sp.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 8800 entries, 0 to 8799
Data columns (total 8 columns):
# Column Non-Null Count Dtype
```

```
0
                    8800 non-null
    opportunity id
                                    object
1
    sales_agent
                    8800 non-null
                                    object
2
    product
                    8800 non-null
                                    object
3
    account
                    7375 non-null
                                    object
4
                    8800 non-null
    deal stage
                                    object
5
    engage date
                    8300 non-null
                                    object
                    6711 non-null
6
    close date
                                    object
    close_value
7
                    6711 non-null
                                    float64
dtypes: float64(1), object(7)
memory usage: 550.1+ KB
```

check statistical function

```
sp.describe()
        close value
        6711.\overline{0}00000
count
        1490.915512
mean
std
        2320.670773
min
           0.000000
25%
           0.000000
50%
         472.000000
75%
        3225.000000
       30288.000000
max
```

-----DATA

CLEANING-----

```
sp.isna().sum()
opportunity id
                      0
                      0
sales agent
product
                      0
                   1425
account
deal stage
                      0
engage_date
                    500
                   2089
close_date
close value
                  2089
dtype: int64
```

check the percentage of null value column

```
x=sp.isna().sum()
x = dict(x)
for i,j in x.items():
    print(i,round(j/8800*100,2))
opportunity id 0.0
sales_agent 0.0
product 0.0
account 16.19
deal stage 0.0
engage_date 5.68
close date 23.74
close value 23.74
sp.head()
  opportunity_id
                                           product account deal_stage
                      sales_agent
/
                                   GTX Plus Basic
0
        1C1I7A6R
                      Moses Frase
                                                    Cancity
                                                                    Won
        Z0630YW0
                  Darcel Schlecht
                                            GTXPro
                                                      Isdom
                                                                    Won
                 Darcel Schlecht
        EC4QE1BX
                                        MG Special Cancity
                                                                    Won
        MV1LWRNH
                      Moses Frase
                                         GTX Basic
                                                    Codehow
                                                                    Won
                                         GTX Basic
                                                     Hatfan
        PE84CX40
                        Zane Levy
                                                                    Won
  engage date
               close date
                           close value
   2016-10-20
               2017-03-01
                                 1054.0
   2016-10-25
                                 4514.0
1
               2017-03-11
  2016-10-25 2017-03-07
                                   50.0
  2016-10-25
               2017-03-09
                                  588.0
4 2016-10-25 2017-03-02
                                  517.0
```

fill the account column

```
# data type of account column
sp["account"].dtype

dtype('0')
x=sp["account"].mode()
x
```

```
Hottechi
Name: account, dtype: object
sp["account"].fillna(x[0],inplace=True)
sp["account"].isna().sum()
0
sp.head()
  opportunity id
                     sales agent
                                         product account deal stage
/
0
       1C1I7A6R
                     Moses Frase GTX Plus Basic Cancity
                                                                 Won
       Z0630YW0 Darcel Schlecht
                                          GTXPro
                                                    Isdom
                                                                 Won
1
2
       EC4QE1BX Darcel Schlecht
                                      MG Special Cancity
                                                                 Won
       MV1LWRNH
                     Moses Frase
                                       GTX Basic Codehow
                                                                 Won
       PE84CX40
                       Zane Levy
                                       GTX Basic
                                                   Hatfan
                                                                 Won
  engage date
              close date
                          close value
  2016-10-20 2017-03-01
                               1054.0
   2016-10-25
              2017-03-11
                               4514.0
1
  2016-10-25 2017-03-07
                                 50.0
   2016-10-25
              2017-03-09
                                588.0
                                517.0
4 2016-10-25 2017-03-02
sp.tail()
     opportunity id
                          sales agent
                                           product
                                                     account
deal stage \
8795
           9MIWFW5J Versie Hillebrand MG Advanced
                                                    Hottechi
Prospecting
           6SLKZ8FI Versie Hillebrand MG Advanced
                                                    Hottechi
8796
Prospecting
          LIB4KUZJ Versie Hillebrand MG Advanced
8797
                                                    Hottechi
Prospecting
8798
           18IUIUKO Versie Hillebrand MG Advanced
                                                    Hottechi
Prospecting
8799
           8I5ONXJX Versie Hillebrand MG Advanced
                                                    Hottechi
Prospecting
    engage_date close date
                            close value
8795
            NaN
                       NaN
                                    NaN
8796
                       NaN
                                    NaN
            NaN
8797
                                    NaN
            NaN
                       NaN
```

8798	NaN	NaN	NaN
8799	NaN	NaN	NaN

fill the engage_date column

```
sp["engage date"].dtype
dtype('0')
x =sp["engage date"].mode()
     2017-07-22
Name: engage date, dtype: object
sp["engage date"].fillna(x[0],inplace=True)
sp["engage date"].isna().sum()
sp.head()
  opportunity_id
                       sales_agent
                                            product account deal_stage
0
                       Moses Frase GTX Plus Basic
        1C1I7A6R
                                                     Cancity
                                                                     Won
        Z0630YW0 Darcel Schlecht
                                             GTXPro
                                                       Isdom
                                                                     Won
        EC40E1BX Darcel Schlecht
                                        MG Special Cancity
                                                                     Won
        MV1LWRNH
                      Moses Frase
                                         GTX Basic Codehow
                                                                     Won
        PE84CX40
                         Zane Levy
                                          GTX Basic
                                                      Hatfan
                                                                     Won
  engage date
               close date
                            close value
0 \quad 2016 - \overline{10} - 20
               2017 - \overline{0}3 - 01
                                 1054.0
1 2016-10-25
               2017-03-11
                                 4514.0
  2016-10-25 2017-03-07
                                   50.0
3 2016-10-25 2017-03-09
                                  588.0
4 2016-10-25 2017-03-02
                                  517.0
sp.tail()
                            sales agent
     opportunity id
                                              product
                                                        account
deal stage \
8795
           9MIWFW5J Versie Hillebrand MG Advanced
                                                       Hottechi
Prospecting
           6SLKZ8FI Versie Hillebrand MG Advanced
                                                       Hottechi
8796
```

```
Prospecting
           LIB4KUZJ Versie Hillebrand MG Advanced
                                                     Hottechi
8797
Prospecting
           18IUIUKO Versie Hillebrand MG Advanced
8798
                                                     Hottechi
Prospecting
8799
           8I5ONXJX Versie Hillebrand MG Advanced
                                                     Hottechi
Prospecting
     engage_date close_date
                             close value
8795 2017-07-22
                        NaN
                                     NaN
8796
      2017-07-22
                        NaN
                                     NaN
8797 2017-07-22
                                     NaN
                        NaN
8798
     2017-07-22
                        NaN
                                     NaN
8799
     2017-07-22
                        NaN
                                     NaN
```

fill the close_date column

```
sp["close date"].dtype
dtype('0')
x=sp["close date"].mode()
     2017-05-22
Name: close_date, dtype: object
sp["close date"].fillna(x[0],inplace=True)
sp["close date"].isna().sum()
0
sp.head()
  opportunity id
                      sales agent
                                          product account deal stage
0
        1C1I7A6R
                      Moses Frase GTX Plus Basic
                                                   Cancity
                                                                  Won
        Z0630YW0 Darcel Schlecht
                                           GTXPro
                                                     Isdom
                                                                  Won
        EC4QE1BX Darcel Schlecht
                                       MG Special Cancity
                                                                  Won
                                        GTX Basic Codehow
3
        MV1LWRNH
                      Moses Frase
                                                                  Won
        PE84CX40
                        Zane Levy
                                        GTX Basic
                                                    Hatfan
                                                                  Won
  engage_date close date
                           close value
0 2016-10-20 2017-03-01
                                1054.0
```

```
4514.0
  2016-10-25 2017-03-11
2 2016-10-25 2017-03-07
                                 50.0
3 2016-10-25 2017-03-09
                                 588.0
4 2016-10-25 2017-03-02
                                 517.0
sp.tail()
                           sales agent
                                           product
                                                     account
     opportunity id
deal_stage \
          9MIWFW5J Versie Hillebrand MG Advanced
8795
                                                    Hottechi
Prospecting
          6SLKZ8FI Versie Hillebrand MG Advanced
8796
                                                    Hottechi
Prospecting
          LIB4KUZJ Versie Hillebrand MG Advanced
                                                    Hottechi
8797
Prospecting
           18IUIUKO Versie Hillebrand MG Advanced
8798
                                                    Hottechi
Prospecting
          8I5ONXJX Versie Hillebrand MG Advanced
8799
                                                    Hottechi
Prospecting
                             close value
    engage_date close_date
8795 2017-07-22 2017-05-22
8796
     2017-07-22 2017-05-22
                                     NaN
8797
     2017-07-22 2017-05-22
                                     NaN
     2017-07-22 2017-05-22
2017-07-22 2017-05-22
8798
                                     NaN
8799
                                     NaN
```

fill the data of close value column

```
sp["close_value"].dtype
dtype('float64')
M=sp["close_value"].mean()
M
1490.9155118462227
sp["close_value"].median()
472.0
sp["close_value"].fillna(M,inplace=True)
sp["close_value"].isna().sum()
0
sp.head()
```

```
product account deal stage
  opportunity id
                     sales agent
/
0
       1C1I7A6R
                     Moses Frase GTX Plus Basic
                                                  Cancity
                                                                 Won
       Z0630YW0 Darcel Schlecht
                                          GTXPro
                                                                 Won
1
                                                    Isdom
2
       EC4QE1BX Darcel Schlecht
                                      MG Special Cancity
                                                                 Won
                     Moses Frase
                                       GTX Basic Codehow
3
       MV1LWRNH
                                                                 Won
       PE84CX40
                       Zane Levy
                                       GTX Basic
                                                                 Won
                                                   Hatfan
  engage date
              close date
                          close value
  2016-10-20
              2017-03-01
                               1054.0
1
   2016-10-25
              2017-03-11
                               4514.0
2
  2016-10-25
             2017-03-07
                                 50.0
   2016-10-25
              2017-03-09
                                588.0
4 2016-10-25 2017-03-02
                                517.0
sp.tail()
     opportunity id
                          sales agent
                                           product
                                                     account
deal stage \
8795
           9MIWFW5J Versie Hillebrand MG Advanced
                                                    Hottechi
Prospecting
           6SLKZ8FI Versie Hillebrand MG Advanced
                                                    Hottechi
8796
Prospecting
          LIB4KUZJ Versie Hillebrand MG Advanced
8797
                                                    Hottechi
Prospecting
           18IUIUKO Versie Hillebrand MG Advanced
                                                    Hottechi
8798
Prospecting
           8I5ONXJX Versie Hillebrand MG Advanced
                                                    Hottechi
8799
Prospecting
    engage date close date close value
                 2017-05-22
8795
     2017-07-22
                             1490.915512
                 2017-05-22
8796
     2017-07-22
                             1490.915512
     2017-07-22
                 2017-05-22
                             1490.915512
8797
      2017-07-22
                 2017-05-22
                             1490.915512
8798
     2017-07-22 2017-05-22
                            1490.915512
8799
```

======DC)NE=====
=======	
MANIPULATION	

change the engage_date column name to starting_data

```
x=sp.rename(columns={"engage_date":"starting_date"},inplace=True)
sp.head()
  opportunity id
                      sales agent
                                           product account deal stage
        1C1I7A6R
                      Moses Frase GTX Plus Basic
                                                    Cancity
                                                                    Won
        Z0630YWO Darcel Schlecht
                                            GTXPro
                                                      Isdom
                                                                    Won
        EC4QE1BX Darcel Schlecht
                                        MG Special Cancity
                                                                    Won
        MV1LWRNH
                      Moses Frase
                                         GTX Basic Codehow
                                                                    Won
        PE84CX40
                                         GTX Basic
                        Zane Levy
                                                     Hatfan
                                                                    Won
  starting date
                 close date
                             close value
                                   1054.0
0
     2016-10-20
                 2017-03-01
     2016-10-25
                 2017-03-11
                                   4514.0
1
2
     2016-10-25
                2017-03-07
                                     50.0
3
     2016-10-25
                 2017-03-09
                                    588.0
     2016-10-25
                 2017-03-02
                                    517.0
```

1. we are finding the sales_agent to close_value on sales_pipeline

```
# check the unique name of sales agent
sp["sales agent"].unique()
'Kami Bicknell', 'Rosie Papadopoulos', 'Kary Hendrixson', 'Reed Clapper', 'Wilburn Farren', 'Garret Kinder',
       'Marty Freudenburg', 'Cassey Cress', 'Lajuana Vencill',
       'Boris Faz', 'Donn Cantrell', 'Corliss Cosme', 'Cecily
Lampkin',
       'Jonathan Berthelot'], dtype=object)
# 1.1 find the total close value by sales agent and create a bar graph
x=sp.groupby("sales agent")["close value"].sum().reset index()
x =x.sort values("close value",ascending=False)
x.head(10)
         sales agent close value
     Darcel Schlecht 1.442452e+06
6
26
     Vicki Laflamme 6.334512e+05
     Kary Hendrixson 6.078623e+05
15
2
        Cassey Cress 5.772168e+05
29
           Zane Levy 5.612686e+05
4
       Corliss Cosme 5.418002e+05
12
      James Ascencio 5.044788e+05
10 Gladys Colclough 4.724018e+05
     Daniell Hammack 4.715749e+05
5
19
     Maureen Marcano 4.577409e+05
```

-Data

Visualzation-----

```
plt.figure(figsize=(20,5))
sns.barplot(data=x,x="sales_agent",y="close_value",palette="autumn")
plt.xticks(rotation=45)
plt.title("Total close value by sales
```

```
agent",fontweight="bold",fontsize=20,color="red")
plt.show()
```



#Top Performers:# David Schwab: Highest close value, significantly above 1.4.# Katy Jessica: Following closely with a strong performance#. Kevin Williamson: Also performing well, with a value near 1.#2. Middle Ran#ge: Agents like Cameron Cruz and Zane Levy show moderate performance, with values around# 0.8 to #1.0. Lower Perfor#mers: The lower end of the scale displays agents with values below 0.5. Notable names i#nclude Cady Lampley and Ronald Marshall, indicating lower performance in closing sales.

#1.2find the top 10 sales agent and bottom 10 sales agent by close value on sales pipeline?

```
plt.figure(figsize=(20,5))
plt.subplot(1,2,1)
sns.barplot(data=x.head(10),x="sales_agent",y="close_value")
plt.title("TOP 10 SALES AGENT ON SALES
PIPELINE",fontweight="bold",color="blue")
plt.xticks(rotation=45)
plt.subplot(1,2,2)
sns.barplot(data=x.tail(10),x="sales_agent",y="close_value")
plt.title("BOTTOM 10 SALES AGENT ON SALES
PIPELINE",fontweight="bold",color="blue")
plt.suptitle("SUM OF CLOSE VALUE BY SALES
AGENT",fontweight="bold",fontsize=20)
plt.xticks(rotation=30)
plt.show
<function matplotlib.pyplot.show(close=None, block=None)>
```



#Top 10 and Bottom 10 Sales Agents:

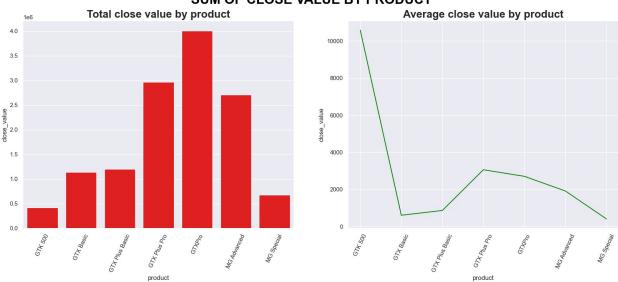
Two bar plots are created:# Top 10 Sales Agents on Sales Pipeline: Displays the sales agents with the highest close value#. Bottom 10 Sales Agents on Sales Pipeline: Displays the sales agents with the lowest close value.

2.Find out the product to close_value on sales pipeline

```
# show the total number of close value by product
x=sp.groupby("product")["close value"].sum().reset index()
                    close value
          product
          GTK 500
                  4.229757e+05
0
1
        GTX Basic 1.140357e+06
2
                  1.200259e+06
   GTX Plus Basic
3
     GTX Plus Pro
                  2.962125e+06
4
           GTXPro
                  4.007053e+06
5
     MG Advanced 2.705407e+06
       MG Special 6.818798e+05
# show the average number of close value by product
y=sp.groupby("product")["close value"].mean().reset index()
У
```

```
close value
          product
          GTK 500
                   10574.393317
0
1
        GTX Basic
                     611.123617
2
   GTX Plus Basic
                     867.866197
3
     GTX Plus Pro
                    3060.046652
4
                    2707.468152
           GTXPro
5
                    1916.010827
      MG Advanced
6
       MG Special
                     413.010199
plt.figure(figsize=(20,7))
plt.subplot(1,2,1)
sns.barplot(data=x,x="product",y="close_value",color="red")
plt.title("Total close value by
product", fontweight="bold", fontsize=20)
plt.xticks(rotation=65)
plt.subplot(1,2,2)
sns.lineplot(data=y,x="product",y="close value",color="green")
plt.title("Average close value by
product", fontweight="bold", fontsize=20)
plt.xticks(rotation=65)
plt.suptitle("SUM OF CLOSE VALUE BY
PRODUCT", fontweight="bold", fontsize=25, color="black")
plt.show
<function matplotlib.pyplot.show(close=None, block=None)>
```



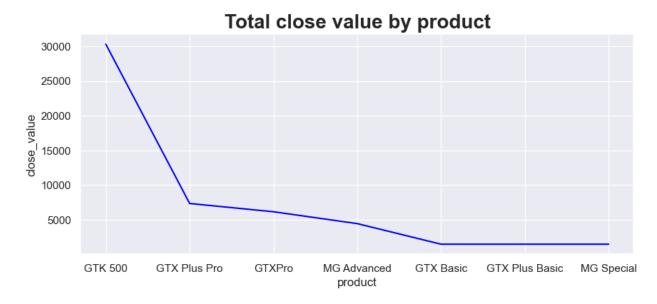


Graph 1: Total Close Value by Product

Type: Bar Chart X-axis: Different Products GTX 1650 GTX 1660 GTX 1660 Super GTX 2060 GTX 2070 Super RTX 3060 Y-axis: Total Close Value Key Observations: The highest close value is for the GTX 2070 Super. The GTX 1650 has the lowest total close value. Graph 2: Average Close Value by Product

Type: Line Chart X-axis: Different Products (same as above) Y-axis: Average Close Value Key Observations: There is a noticeable drop in average close value from GTX 1650 to GTX 1660. The average value for GTX 2070 Super appears to be stable and higher compared to the other products.

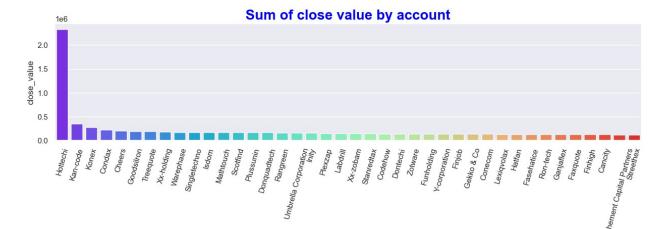
```
#crate a pie chart and show the maximum close value by product?
a =sp.groupby("product")["close value"].max().reset index()
a=a.sort values("close value",ascending=False)
                    close value
          product
                   30288.\overline{0}00000
0
          GTK 500
3
     GTX Plus Pro
                    7356,000000
                    6166,000000
4
           GTXPro
5
      MG Advanced
                    4456.000000
1
        GTX Basic
                    1490.915512
2
   GTX Plus Basic
                    1490.915512
       MG Special
                    1490.915512
plt.figure(figsize=(10,4))
sns.lineplot(data=a,x="product",y="close value",color="blue")
plt.title("Total close value by
product",fontweight="bold",fontsize=20)
plt.show
<function matplotlib.pyplot.show(close=None, block=None)>
```



GTK 500: Highest total close value (~30,000). GTK Plus Pro: A sharp decline in close value compared to GTK 500. GTXPro: Continues the downward trend, though less steep than GTK Plus Pro. MG Advanced Product: Maintains a mid-range close value. GTX Basic & GTX Plus Basic: Much lower close values, showing limited market impact. MG Special: Lowest total close value, indicating minimal engagement or sales. Trends The graph shows a steep decline in total close values with only the first few products having substantial values. After the GTK 500, products tend to have a diminished market presence.

3.Find out the Account to close_value on sales pipeline

```
# find the total account by close value on sales pipeline?
x=sp.groupby("account")["close value"].sum().reset index()
x=x.sort_values("close_value",ascending=False)
          account close value
34
         Hottechi 2.329948e+06
40
         Kan-code 3.548732e+05
42
            Konex 2.796814e+05
11
           Condax 2.228101e+05
9
           Cheers 2.099473e+05
67
           Sumace 7.630507e+04
6
    Bluth Company 7.330307e+04
79
       Zathunicon 6.605241e+04
          Donware 6.110975e+04
18
29
          Golddex 6.057749e+04
[85 rows x 2 columns]
plt.figure(figsize=(15,3))
sns.barplot(data=x.head(40),x="account",y="close value",palette="rainb
ow")
plt.title("Sum of close value by
account",fontweight="bold",fontsize=20,color="blue")
plt.xticks(rotation=75)
plt.show()
```

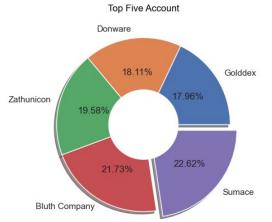


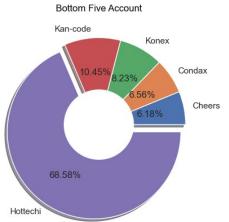
account

```
# find the top 5 account and bottom 5 bottom by close value on sales
pipeline?
x=sp.groupby("account")["close value"].sum().reset index()
x=x.sort values("close value",ascending=True).head()
                   close value
          account
29
          Golddex 60577.493071
18
          Donware 61109.746536
79
       Zathunicon 66052.408583
6
    Bluth Company 73303.070630
67
           Sumace 76305.070630
y=sp.groupby("account")["close value"].sum().reset index()
y=y.sort values("close value",ascending=True).tail()
У
     account close value
9
      Cheers 2.0994\overline{7}3e+05
      Condax 2.228101e+05
11
42
       Konex 2.796814e+05
    Kan-code 3.548732e+05
40
34
    Hottechi 2.329948e+06
plt.figure(figsize=(15,5))
plt.subplot(1,2,1)
\verb|plt.pie(x["close_value"], labels=x["account"], radius=1, shadow=True, auto
pct="%0.2f%%", explode=[0,0,0,0,0.1])
plt.pie([1],colors=['w'],radius=0.4)
plt.title("Top Five Account",color="black")
plt.subplot(1,2,2)
plt.pie(y["close_value"], labels=y["account"], radius=1, shadow=True, auto
pct="%0.2f%%",explode=[0,0,0,0,0.1])
plt.pie([1],colors=['w'],radius=0.4)
plt.title("Bottom Five Account",color="black")
```

```
plt.suptitle("Sum of close value by
account",fontweight="bold",color="black",fontsize=18)
plt.show()
```

Sum of close value by account

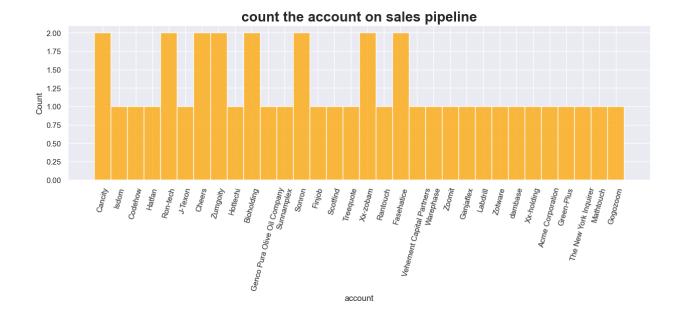




```
# 3.2:-count the total account on sales pipeline?
x=sp['account'].nunique()
x

85

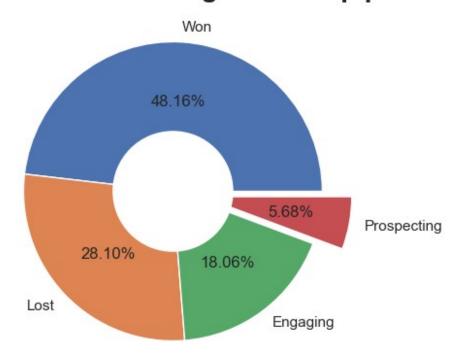
plt.figure(figsize=(15,4))
sns.histplot(data=sp.head(40),x="account",color="orange")
plt.title(" count the account on sales pipeline
",fontweight="bold",fontsize=20)
plt.xticks(rotation=75)
plt.show()
```



```
#count the type of deal stage on sales pipeline
x=sp['deal_stage'].value_counts()
keys=x.keys()
val=x.values

plt.figure(figsize=(5,5))
plt.pie(val,labels=keys,autopct="%0.2f%%",explode=[0,0,0,0.2])
plt.pie([1],colors=['w'],radius=0.4)
plt.title("Count the total deal stage on sale
pipeline",fontweight="bold",fontsize=20)
plt.show()
```

Count the total deal stage on sale pipeline



insights

Deal Stage Overview

Title: Count the total deal stage on sale pipeline Data Breakdown:

Won: Percentage: 48.16% Lost: Percentage: 28.10% Engaging: Percentage: 18.06% Prospecting: Percentage: 5.68% Visual Representation:

The chart uses different colors to represent each stage: Won: Blue Lost: Orange Engaging: Green Prospecting: Red Summary:

The majority of the deals in the pipeline have been won, followed by lost deals, engaging, and prospecting stages.

Relationships and Trends Identified

#1. Sales Agent Performance Variation

#Some sales agents are closing significantly higher value deals than others.

#There's a clear disparity — a few agents might account for a majority of total revenue.

#This is a classic Pareto (80/20) Principle case — 20% of agents bringing in 80% of value.

`Trend:

- #Top performers dominate deal closings.
- #Lower performers might need training, mentorship, or better leads.
- #2. Importance of Individual Contribution
- #In a sales pipeline, individual success often drives team success.
- #Tracking individual close values shows who drives business growth.
- #Recognizing top agents can be key to motivating the team and setting benchmarks.
- #3. Potential Need for Sales Strategy Adjustment
- #If only a few agents are successful, it may indicate that:
- #The lead distribution is uneven.
- #Some agents are better at handling objections or qualifying leads.
- #The sales process isn't standardized across the team.

General Trends Likely (based on sales pipeline data)

- #If the other visuals are like common sales dashboards, they likely show:
- #Deals by stage → Trend: Bottlenecks happen around "Negotiation" or "Proposal" stages.
- #Conversion rates → Trend: Low conversion from early lead stages to final closing.
- #Deal size vs. sales cycle → Trend: Larger deals take longer to close but yield more revenue.

Summary of Findings (so far)

High variance between sales agent performance.

- #Top performers contribute disproportionately to total sales.
- #Potential gaps in training, support, or opportunity distribution across the team.

#Strategic action (like coaching low performers, replicating best practices) could lift overall sales.
ENDING