Assignment 4.1

September 30, 2024

```
[1]: import pandas as pd
    import numpy as np
    from IPython.display import display, HTML
     # Load the data
    df = pd.read_csv("/Users/gabrielmancillas/Desktop/ADS 505-01/Mod 04/Assignment_
      dff = pd.read_csv("/Users/gabrielmancillas/Desktop/ADS 505-01/Mod 04/Assignment_
      # Display both DataFrames side by side
    display(HTML('<h3>Fundraising DataFrame</h3>'))
    display(df.head())
    display(HTML('<h3>Future Fundraising DataFrame</h3>'))
    display(dff.head())
    <IPython.core.display.HTML object>
       Row Id Row Id. zipconvert_2 zipconvert_3 zipconvert_4 zipconvert_5 \
    0
            1
                   17
                                  0
                                                1
                                                                            0
            2
                   25
    1
                                  1
                                                0
                                                              0
                                                                            0
            3
    2
                   29
                                  0
                                                0
                                                              0
                                                                            1
    3
            4
                   38
                                  0
                                                0
                                                              0
                                                                            1
    4
            5
                                                1
                   40
                                       gender dummy
                       NUMCHLD INCOME
       homeowner dummy
                                                         IC15
                                                              NUMPROM
    0
                    1
                             1
                                     5
                                                            1
                                                                    74
                                                   1
    1
                     1
                             1
                                     1
                                                            4
                                                                    46
    2
                    0
                             2
                                     5
                                                   1
                                                           13
                                                                    32
    3
                     1
                             1
                                     3
                                                   0
                                                            4
                                                                    94
                     1
                             1
                                                            7
                                                                    20
       RAMNTALL MAXRAMNT LASTGIFT totalmonths TIMELAG
                                                           AVGGIFT
                                                                   TARGET_B
    0
          102.0
                     6.0
                               5.0
                                             29
                                                       3 4.857143
                                                                           1
    1
           94.0
                    12.0
                              12.0
                                             34
                                                       6 9.400000
                                                                           1
    2
                               5.0
           30.0
                    10.0
                                             29
                                                       7 4.285714
                                                                          1
                                                       3 7.080000
    3
          177.0
                    10.0
                               8.0
                                             30
                                                                          0
           23.0
                    11.0
                              11.0
                                             30
                                                       6 7.666667
```

```
TARGET_D
    0
             5.0
    1
            10.0
    2
             5.0
    3
             0.0
             0.0
    [5 rows x 24 columns]
    <IPython.core.display.HTML object>
       Row Id Row Id. zipconvert_2 zipconvert_3 zipconvert_4 zipconvert_5 \
    0
             1
                                     0
                                                    1
    1
             2
                      4
                                     0
                                                    0
                                                                                 0
                                                                  1
    2
             3
                      5
                                     0
                                                    0
                                                                                 1
             4
    3
                                                    0
                                                                                 0
                      1
             5
    4
                      4
       homeowner dummy
                         NUMCHLD
                                  INCOME
                                           gender dummy
                                                             IC15 NUMPROM
    0
                                                                3
                      1
                                1
                                        1
                                                       1
                                                                         42
                                1
    1
                      0
                                        2
                                                                4
                                                                         21
    2
                      0
                                1
                                                       0
                                                               10
                                                                         61
    3
                      1
                                1
                                        4
                                                       0
                                                               21
                                                                         32
    4
                                                                         47
       RAMNTALL MAXRAMNT LASTGIFT
                                       totalmonths TIMELAG
                                                                AVGGIFT TARGET_B \
    0
           92.0
                      29.0
                                 15.0
                                                17
                                                           8 15.333333
                                                                               NaN
            30.0
                      20.0
                                 20.0
                                                33
    1
                                                              15.000000
                                                                               NaN
    2
                      35.0
                                 25.0
          220.0
                                                31
                                                           9
                                                              24.44444
                                                                               NaN
    3
            41.0
                      19.0
                                 19.0
                                                31
                                                          13 13.666667
                                                                               NaN
    4
            46.0
                      10.0
                                 10.0
                                                28
                                                               5.750000
                                                                               NaN
       TARGET_D
    0
             NaN
    1
             NaN
    2
             NaN
    3
             NaN
    4
             NaN
    [5 rows x 24 columns]
[2]: import pandas as pd
     import numpy as np
     from IPython.display import display, HTML
     # Load the data
```

```
df = pd.read_csv("/Users/gabrielmancillas/Desktop/ADS 505-01/Mod 04/Assignment_
 dff = pd.read_csv("/Users/gabrielmancillas/Desktop/ADS 505-01/Mod 04/Assignment_
 # 1. Understand the Data
display(HTML('<h3>First 5 rows of the Fundraising dataset:</h3>'))
display(df.head())
display(HTML('<h3>Data types and missing values in Fundraising dataset:</h3>'))
display(df.info())
display(HTML('<h3>Summary statistics of Fundraising dataset:</h3>'))
display(df.describe())
# 2. Handle Missing Values
display(HTML('<h3>Missing values per column in Fundraising dataset:</h3>'))
display(df.isnull().sum())
# Fill missing values with the mean
df.fillna(df.mean(), inplace=True)
# Handle the dff dataframe
display(HTML('<h3>First 5 rows of the Future Fundraising dataset:</h3>'))
display(dff.head())
display(HTML('<h3>Data types and missing values in Future Fundraising dataset:</
 ⇔h3>¹))
display(dff.info())
display(HTML('<h3>Summary statistics of Future Fundraising dataset:</h3>'))
display(dff.describe())
display(HTML('<h3>Missing values per column in Future Fundraising dataset:</
 ⇔h3>'))
display(dff.isnull().sum())
# Fill missing values in dff with the mean
dff.fillna(dff.mean(), inplace=True)
<IPython.core.display.HTML object>
  Row Id Row Id. zipconvert_2 zipconvert_3 zipconvert_4 zipconvert_5 \
0
                              0
       1
               17
                                           1
                                                         0
                                                                       0
1
       2
               25
                              1
                                           0
                                                         0
                                                                       0
2
       3
               29
                              0
                                           0
                                                         0
                                                                       1
       4
3
               38
                              0
                                           0
                                                                       1
                                                         0
4
       5
               40
                              0
                                           1
                                                                       0
```

```
homeowner dummy
                     NUMCHLD INCOME
                                      gender dummy
                                                        IC15
                                                              NUMPROM
0
                  1
                           1
                                   5
                                                            1
                                                                    74
                                                  1
1
                  1
                           1
                                   1
                                                  0
                                                            4
                                                                    46
2
                  0
                           2
                                   5
                                                  1
                                                                    32
                                                           13
3
                           1
                                   3
                  1
                                                  0
                                                            4
                                                                    94
                                                            7
4
                           1
                                                                    20
                  1
                                   4
   RAMNTALL MAXRAMNT LASTGIFT
                                  totalmonths TIMELAG
                                                          AVGGIFT
                                                                    TARGET B
0
      102.0
                   6.0
                             5.0
                                            29
                                                      3 4.857143
                                                                           1
       94.0
                 12.0
                            12.0
                                            34
                                                      6 9.400000
                                                                           1
1
2
       30.0
                 10.0
                             5.0
                                            29
                                                      7
                                                         4.285714
                                                                           1
3
      177.0
                  10.0
                             8.0
                                            30
                                                      3 7.080000
                                                                           0
4
       23.0
                 11.0
                            11.0
                                            30
                                                      6 7.666667
                                                                           0
   TARGET_D
0
        5.0
1
       10.0
2
        5.0
3
        0.0
4
        0.0
```

[5 rows x 24 columns]

<IPython.core.display.HTML object>

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 3120 entries, 0 to 3119
Data columns (total 24 columns):

#	Column	Non-Null Count	Dtype
0	Row Id	3120 non-null	int64
1	Row Id.	3120 non-null	int64
2	zipconvert_2	3120 non-null	int64
3	zipconvert_3	3120 non-null	int64
4	zipconvert_4	3120 non-null	int64
5	zipconvert_5	3120 non-null	int64
6	homeowner dummy	3120 non-null	int64
7	NUMCHLD	3120 non-null	int64
8	INCOME	3120 non-null	int64
9	gender dummy	3120 non-null	int64
10	WEALTH	3120 non-null	int64
11	HV	3120 non-null	int64
12	Icmed	3120 non-null	int64
13	Icavg	3120 non-null	int64
14	IC15	3120 non-null	int64
15	NUMPROM	3120 non-null	int64
16	RAMNTALL	3120 non-null	float64
17	MAXRAMNT	3120 non-null	float64

18	LASTGIFT	3120 non-null	float64
19	totalmonths	3120 non-null	int64
20	TIMELAG	3120 non-null	int64
21	AVGGIFT	3120 non-null	float64
22	TARGET_B	3120 non-null	int64
23	TARGET_D	3120 non-null	float64

dtypes: float64(5), int64(19)

memory usage: 585.1 KB

None

count mean std min 25% 50% 75% max	Row Id 3120.000000 1560.500000 900.810746 1.000000 780.750000 1560.500000 2340.250000 3120.000000	Row Id. 3120.000000 11615.770833 6698.678131 17.000000 5820.750000 11735.500000 17435.750000 23293.000000	zipconvert_2 3120.000000 0.214423 0.410487 0.000000 0.000000 0.000000 1.000000	zipconvert_3 3120.000000 0.185256 0.388568 0.000000 0.000000 0.000000 1.000000	zipconvert_4 3120.000000 0.214423 0.410487 0.000000 0.000000 0.000000 0.000000 1.000000	\
count mean std min 25% 50% 75% max	zipconvert_5 3120.000000 0.384615 0.486582 0.000000 0.000000 1.000000 1.000000	homeowner du 3120.000 0.770 0.420 0.000 1.000 1.000	3120.0000 0192	00 3120.00000 31 3.89391 88 1.63618 00 1.00000 00 3.00000 00 4.00000	3120.000000 0 0.609295 6 0.487987 0 0.000000 0 0.000000 0 1.000000 0 1.000000	\
count mean std min 25% 50% 75% max	IC 3120.00000 14.7028 12.0798 0.00000 5.00000 12.00000 21.00000 90.00000	3120.00000 85	3120.000000 23 110.399875 30 147.299933 00 15.000000 00 45.000000 00 81.000000 134.625000	3120.000000 16.651397 22.223521 5.000000 10.000000 15.000000 20.000000	LASTGIFT \ 3120.000000 13.522917 10.581439 0.000000 7.000000 10.000000 16.000000 219.000000	
count mean std min 25%	totalmonths 3120.000000 31.136859 4.132952 17.000000 29.000000	TIMELAG 3120.000000 6.861859 5.561209 0.000000 3.000000	AVGGIFT 3120.000000 3 10.690713 7.443980 2.138889 6.356092	0.50000	TARGET_D 0.000000 6.499612 0.597849 0.000000 0.000000	

50%	31.000000	5.000000	9.000000	0.50000	0.500000
75%	34.000000	9.000000	12.811652	1.00000	10.000000
max	37.000000	77.000000	122.166667	1.00000	200.000000

[8 rows x 24 columns]

<IPython.core.display.HTML object>

Row Id	0
Row Id.	0
zipconvert_2	0
zipconvert_3	0
zipconvert_4	0
zipconvert_5	0
homeowner dummy	0
NUMCHLD	0
INCOME	0
gender dummy	0
WEALTH	0
HV	0
Icmed	0
Icavg	0
IC15	0
NUMPROM	0
RAMNTALL	0
MAXRAMNT	0
LASTGIFT	0
totalmonths	0
TIMELAG	0
AVGGIFT	0
TARGET_B	0
TARGET_D	0
dtype: int64	

	Row Id	Row Id.	zipconvert_2	zipconvert_3	zipconvert_4	zipconvert_5	\
0	1	3	0	1	0	0	
1	2	4	0	0	1	0	
2	3	5	0	0	0	1	
3	4	1	0	0	0	0	
4	5	4	0	0	1	0	

	homeowner	dummy	NUMCHLD	INCOME	gender dummy	•••	IC15	NUMPROM	\
0		1	1	1	1		3	42	
1		0	1	2	1		4	21	
2		0	1	1	0		10	61	
3		1	1	4	0	•••	21	32	
4		1	1	7	1		1	47	

	RAMNTALL	MAXRAMNT	LASTGIFT	totalmonths	TIMELAG	AVGGIFT	TARGET_B	\
0	92.0	29.0	15.0	17	8	15.333333	NaN	
1	30.0	20.0	20.0	33	9	15.000000	NaN	
2	220.0	35.0	25.0	31	9	24.44444	NaN	
3	41.0	19.0	19.0	31	13	13.666667	NaN	
4	46.0	10.0	10.0	28	8	5.750000	NaN	
	TARGET_D							
0	NaN							
1	NaN							

[5 rows x 24 columns]

NaN

NaN

NaN

2

3

4

<IPython.core.display.HTML object>

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2000 entries, 0 to 1999
Data columns (total 24 columns):

Column	Non-Null Count	Dtype
Row Id	2000 non-null	int64
Row Id.	2000 non-null	int64
zipconvert_2	2000 non-null	int64
zipconvert_3	2000 non-null	int64
zipconvert_4	2000 non-null	int64
zipconvert_5	2000 non-null	int64
homeowner dummy	2000 non-null	int64
NUMCHLD	2000 non-null	int64
INCOME	2000 non-null	int64
gender dummy	2000 non-null	int64
WEALTH	2000 non-null	int64
HV	2000 non-null	int64
Icmed	2000 non-null	int64
Icavg	2000 non-null	int64
IC15	2000 non-null	int64
NUMPROM	2000 non-null	int64
RAMNTALL	2000 non-null	float64
MAXRAMNT	2000 non-null	float64
LASTGIFT	2000 non-null	float64
totalmonths	2000 non-null	int64
TIMELAG	2000 non-null	int64
AVGGIFT	2000 non-null	float64
TARGET_B	0 non-null	float64
TARGET_D	0 non-null	float64
	Row Id Row Id. zipconvert_2 zipconvert_3 zipconvert_4 zipconvert_5 homeowner dummy NUMCHLD INCOME gender dummy WEALTH HV Icmed Icavg IC15 NUMPROM RAMNTALL MAXRAMNT LASTGIFT totalmonths TIMELAG AVGGIFT TARGET_B	Row Id 2000 non-null Row Id. 2000 non-null zipconvert_2 2000 non-null zipconvert_3 2000 non-null zipconvert_4 2000 non-null zipconvert_5 2000 non-null homeowner dummy 2000 non-null NUMCHLD 2000 non-null INCOME 2000 non-null gender dummy 2000 non-null WEALTH 2000 non-null Icmed 2000 non-null Icavg 2000 non-null Icavg 2000 non-null NUMPROM 2000 non-null RAMNTALL 2000 non-null MAXRAMNT 2000 non-null totalmonths 2000 non-null TIMELAG 2000 non-null AVGGIFT 2000 non-null TARGET_B 0 non-null

dtypes: float64(6), int64(18)

memory usage: 375.1 KB

None <IPython.core.display.HTML object>

count	Row Id 2000.000000	Row Id. 2000.000000	zipconvert_2 2000.000000	zipconvert_3 2000.000000	zipconvert_4 \ 2000.000000	
mean	1000.500000	3.482500	0.237500	0.168500	0.230000	
std	577.494589	1.300592	0.425658	0.374403	0.420938	
min	1.000000	1.000000	0.000000	0.000000	0.000000	
25%	500.750000	2.000000	0.000000	0.000000	0.000000	
50%	1000.500000	4.000000	0.000000	0.000000	0.000000	
75%	1500.250000	5.000000	0.000000	0.000000	0.000000	
max	2000.000000	5.000000	1.000000	1.000000	1.000000	
	zipconvert_5	homeowner d	ummy NUMCH	HLD INCOM	ME gender dummy	\
count	2000.00000	2000.0	•		· ·	`
mean	0.30450		7850 1.0520			
std	0.46031		1536 0.2780			
min	0.00000		0000 1.0000			
25%	0.00000		0000 1.0000			
50%	0.00000	1.0	0000 1.0000	000 4.00000	1.00000	
75%	1.00000	1.0	0000 1.0000	5.0000	1.00000	
max	1.00000	1.0	0000 5.0000	7.0000	1.000000	
	IC:	15 NUMPR	OM RAMNTALI	L MAXRAMNT	LASTGIFT \	
					•	
\mathtt{count}	2000.0000	00 2000.0000	00 2000.000000	2000.000000	2000.000000	
count mean	2000.00000 15.17700				2000.000000 16.478900	
		00 47.3630	00 103.005425	19.270305		
mean	15.17700	00 47.3630 38 22.9639	00 103.005425 91 98.844943	19.270305 3 11.752492	16.478900	
mean std	15.17700 12.57798	47.3630 38 22.9639 00 4.0000	00 103.005425 91 98.844943 00 15.000000	19.270305 3 11.752492 5.000000	16.478900 9.714386	
mean std min	15.17700 12.57798 0.00000	47.3630 38 22.9639 00 4.0000 00 27.0000	00 103.005425 91 98.844943 00 15.000000 00 42.000000	19.270305 3 11.752492 5.000000 14.000000	16.478900 9.714386 0.000000	
mean std min 25%	15.17700 12.57799 0.00000 5.75000	47.3630 22.9639 00 4.0000 00 27.0000 47.0000	00 103.005428 91 98.844943 00 15.000000 00 42.000000	19.270305 3 11.752492 5.000000 14.000000 17.000000	16.478900 9.714386 0.000000 10.000000	
mean std min 25% 50%	15.17700 12.57798 0.00000 5.75000 12.00000	47.3630 38 22.9639 00 4.0000 00 27.0000 00 47.0000 00 64.0000	00 103.005425 91 98.844943 00 15.000000 00 42.000000 00 80.000000 00 132.000000	19.270305 3 11.752492 5.000000 14.000000 17.000000 22.000000	16.478900 9.714386 0.000000 10.000000 15.000000	
mean std min 25% 50% 75%	15.17700 12.57798 0.00000 5.75000 12.00000 22.00000	47.3630 38 22.9639 00 4.0000 00 27.0000 00 47.0000 00 64.0000	00 103.005428 91 98.844943 00 15.00000 00 42.000000 00 80.000000 00 132.000000 00 1526.000000	19.270305 3 11.752492 5.000000 14.000000 17.000000 22.000000 200.000000	16.478900 9.714386 0.000000 10.000000 15.000000 20.000000 105.000000	
mean std min 25% 50% 75%	15.17700 12.57798 0.00000 5.75000 12.00000 22.00000 87.00000	47.3630 22.9639 00 4.0000 00 27.0000 00 47.0000 00 64.0000 148.0000	00 103.005428 91 98.844943 00 15.00000 00 42.000000 00 80.000000 00 132.000000 00 1526.000000	19.270305 3 11.752492 5.000000 14.000000 17.000000 22.000000	16.478900 9.714386 0.000000 10.000000 15.000000 20.000000 105.000000	
mean std min 25% 50% 75% max	15.17700 12.57798 0.00000 5.75000 12.00000 22.00000 87.00000 totalmonths	47.3630 22.9639 00 4.0000 00 27.0000 00 47.0000 00 64.0000 148.0000	00 103.005425 91 98.844943 00 15.000000 00 42.000000 00 80.000000 00 132.000000 00 1526.000000	19.270305 3 11.752492 5.000000 14.000000 17.000000 22.000000 200.000000	16.478900 9.714386 0.000000 10.000000 15.000000 20.000000 105.000000	
mean std min 25% 50% 75% max	15.17700 12.57798 0.00000 5.75000 12.00000 22.00000 87.00000 totalmonths 2000.00000	47.3630 38 22.9639 00 4.0000 00 27.0000 00 47.0000 00 64.0000 00 148.0000 TIMELAG 2000.000000	00 103.005425 91 98.844943 00 15.000000 00 42.000000 00 80.000000 00 132.000000 00 1526.000000 AVGGIFT 1	19.270305 3 11.752492 5.000000 14.000000 17.000000 22.000000 20.000000 TARGET_B TARGIONO	16.478900 9.714386 0.000000 10.000000 15.000000 20.000000 105.000000	
mean std min 25% 50% 75% max count mean	15.17700 12.57798 0.00000 5.75000 12.00000 22.00000 87.00000 totalmonths 2000.00000 31.29300	47.3630 38 22.9639 00 4.0000 00 27.0000 00 47.0000 00 64.0000 00 148.0000 TIMELAG 2000.000000 7.678000	00 103.005428 91 98.844943 00 15.000000 00 42.000000 00 80.000000 00 132.000000 AVGGIFT 7 2000.000000 13.051707	19.270305 3 11.752492 5.000000 14.000000 17.000000 22.000000 2200.000000 TARGET_B TARGE 0.0 NaN	16.478900 9.714386 0.000000 10.000000 15.000000 20.000000 105.000000	
mean std min 25% 50% 75% max count mean std	15.17700 12.57798 0.00000 5.75000 12.00000 22.00000 87.00000 totalmonths 2000.00000 31.29300 4.04244	7.678000 47.3630 47.3639 4.0000 27.0000 47.0000 64.0000 148.0000 TIMELAG 2000.000000 7.678000 5.652459	00 103.005428 91 98.844943 00 15.000000 00 42.000000 00 80.000000 00 132.000000 00 1526.000000 AVGGIFT 1 2000.000000 13.051707 7.982889	19.270305 3 11.752492 5.000000 14.000000 17.000000 22.000000 2200.000000 TARGET_B TARGIONO NaN NaN	16.478900 9.714386 0.000000 10.000000 15.000000 20.000000 105.000000 ET_D 0.0 NaN	
mean std min 25% 50% 75% max count mean std min	15.17700 12.57798 0.00000 5.75000 12.00000 22.00000 87.00000 totalmonths 2000.00000 31.29300 4.04244 17.00000	00 47.3630 38 22.9639 00 4.0000 00 27.0000 00 47.0000 00 64.0000 00 148.0000 TIMELAG 2000.000000 7.678000 5.652459 0.000000	00 103.005428 91 98.844943 00 15.000000 00 42.000000 00 132.000000 00 1526.000000 AVGGIFT 1 2000.000000 13.051707 7.982889 1.636364	19.270305 3 11.752492 5.000000 14.000000 17.000000 22.000000 200.000000 TARGET_B TARGI 0.0 NaN NaN NaN	16.478900 9.714386 0.000000 10.000000 20.000000 105.000000 ET_D 0.0 NaN NaN	
mean std min 25% 50% 75% max count mean std min 25%	15.17700 12.57798 0.00000 5.75000 12.00000 22.00000 87.00000 totalmonths 2000.00000 31.29300 4.04244 17.00000 29.00000	7.678000 7.678000 7.00000 7.678000 47.3630 4.0000 47.0000 64.0000 7.678000 5.652459 0.000000 4.000000	00 103.005428 91 98.844943 00 15.000000 00 42.000000 00 80.000000 00 132.000000 00 1526.000000 AVGGIFT 7 2000.000000 13.051707 7.982889 1.636364 8.408824	19.270305 3 11.752492 5.000000 14.000000 17.000000 22.000000 2200.000000 TARGET_B TARGI 0.0 NaN NaN NaN NaN NaN	16.478900 9.714386 0.000000 10.000000 15.000000 20.000000 105.000000 ET_D 0.0 NaN NaN NaN	

[8 rows x 24 columns]

<IPython.core.display.HTML object>

Row Id 0 Row Id. 0

```
zipconvert_2
    zipconvert_3
                         0
    zipconvert_4
                         0
    zipconvert_5
                         0
    homeowner dummy
                         0
    NUMCHLD
                         0
    INCOME
                         0
    gender dummy
                         0
    WEALTH
                         0
    ΗV
                         0
    Icmed
                         0
                         0
    Icavg
                         0
    IC15
    NUMPROM
                         0
    RAMNTALL
    MAXRAMNT
    LASTGIFT
                         0
                         0
    totalmonths
    TIMELAG
                         0
    AVGGIFT
                         0
    TARGET B
                      2000
    TARGET D
                      2000
    dtype: int64
[3]: import pandas as pd
    import numpy as np
    import matplotlib.pyplot as plt
    import seaborn as sns
    from IPython.display import display, HTML
    # Load the data
    df = pd.read_csv("/Users/gabrielmancillas/Desktop/ADS 505-01/Mod 04/Assignment_
     dff = pd.read_csv("/Users/gabrielmancillas/Desktop/ADS 505-01/Mod 04/Assignment_
     # 3. Data Types and Conversion
    # Convert 'booking_created' to datetime if necessary
    if "booking_created" in df.columns:
        df["booking_created"] = pd.to_datetime(df["booking_created"])
    if "booking_created" in dff.columns:
        dff["booking_created"] = pd.to_datetime(dff["booking_created"])
    # 4. Descriptive Statistics
    display(HTML('<h3>Updated summary statistics for Fundraising dataset after_
      ⇔handling missing values:</h3>'))
```

0

```
display(df.describe())
display(HTML('<h3>Updated summary statistics for Future Fundraising dataset⊔
  →after handling missing values:</h3>'))
display(dff.describe())
# 5. Data Visualization
# Distribution of numerical features
display(HTML('<h3>Distribution of numerical features in Fundraising dataset:</
  →h3>¹))
df.hist(bins=30, figsize=(20, 15))
plt.show()
display(HTML('<h3>Distribution of numerical features in Future Fundraising⊔

dataset:</h3>'))
dff.hist(bins=30, figsize=(20, 15))
plt.show()
# Correlation heatmap
display(HTML('<h3>Correlation Heatmap for Fundraising dataset:</h3>'))
plt.figure(figsize=(12, 8))
sns.heatmap(df.corr(), annot=True, cmap="coolwarm")
plt.title("Correlation Heatmap - Fundraising")
plt.show()
display(HTML('<h3>Correlation Heatmap for Future Fundraising dataset:</h3>'))
plt.figure(figsize=(12, 8))
sns.heatmap(dff.corr(), annot=True, cmap="coolwarm")
plt.title("Correlation Heatmap - Future Fundraising")
plt.show()
<IPython.core.display.HTML object>
            Row Id
                         Row Id.
                                  zipconvert_2 zipconvert_3 zipconvert_4 \
                                                                3120.000000
count 3120.000000
                     3120.000000
                                   3120.000000
                                                  3120.000000
mean
       1560.500000 11615.770833
                                      0.214423
                                                     0.185256
                                                                   0.214423
std
        900.810746
                     6698.678131
                                      0.410487
                                                     0.388568
                                                                   0.410487
min
          1.000000
                       17.000000
                                      0.000000
                                                     0.000000
                                                                   0.000000
25%
        780.750000
                     5820.750000
                                      0.000000
                                                     0.000000
                                                                   0.000000
50%
       1560.500000 11735.500000
                                      0.000000
                                                     0.000000
                                                                   0.000000
75%
       2340.250000 17435.750000
                                      0.000000
                                                     0.000000
                                                                   0.000000
       3120.000000 23293.000000
                                      1.000000
                                                     1.000000
                                                                   1.000000
max
       zipconvert_5 homeowner dummy
                                          NUMCHLD
                                                         INCOME
                                                                 gender dummy
count
        3120.000000
                         3120.000000
                                      3120.000000 3120.000000
                                                                  3120.000000
           0.384615
                            0.770192
                                                       3.893910
                                                                     0.609295
                                         1.069231
mean
           0.486582
                            0.420777
                                         0.347688
                                                       1.636186
                                                                     0.487987
std
           0.000000
                            0.000000
                                         1.000000
                                                       1.000000
                                                                     0.000000
min
```

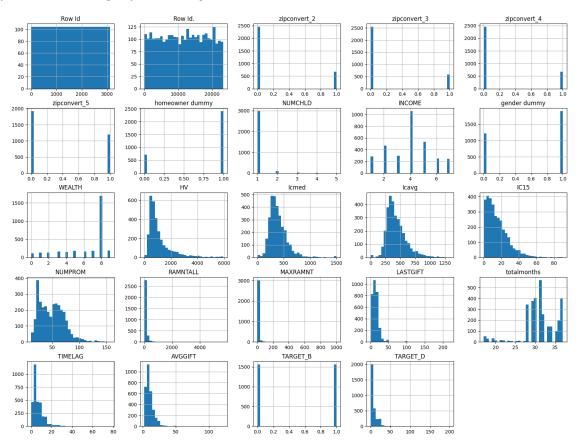
25%	0.000000	1.000			00000	0.000000
50%	0.000000	1.000	0000 1.000	0000 4.0	00000	1.000000
75%	1.000000	1.000	0000 1.000	5.0	00000	1.000000
max	1.000000	1.000	0000 5.000	7.0	00000	1.000000
	IC	15 NUMPRO	OM RAMNTAI	LL MAXRA	MNT L	ASTGIFT \
count	3120.0000	00 3120.00000	00 3120.00000	00 3120.000	000 3120	.000000
mean	14.7028	85 49.08942	23 110.39987	75 16.651	397 13	3.522917
std	12.0798	82 22.71713	30 147.29993	33 22.223	521 10	.581439
min	0.0000	00 11.00000	15.00000	5.000	000 0	.000000
25%	5.0000	00 29.00000	00 45.00000	00 10.000	000 7	.000000
50%	12.0000	00 48.00000	00 81.00000	00 15.000	000 10	.000000
75%	21.0000	00 65.00000	00 134.62500	20.000	000 16	000000
max	90.0000	00 157.00000	00 5674.90000	00 1000.000	000 219	.000000
	totalmonths	TIMELAG	AVGGIFT	TARGET_B	TARGE	T_D
count	3120.000000	3120.000000	3120.000000	3120.00000	3120.000	000
mean	31.136859	6.861859	10.690713	0.50000	6.499	612
std	4.132952	5.561209	7.443980	0.50008	10.597	849
min	17.000000	0.000000	2.138889	0.00000	0.000	000
25%	29.000000	3.000000	6.356092	0.00000	0.000	000
50%	31.000000	5.000000	9.000000	0.50000	0.500	000
75%	34.000000	9.000000	12.811652	1.00000	10.000	000
max	37.000000	77.000000	122.166667	1.00000	200.000	000

[8 rows x 24 columns]

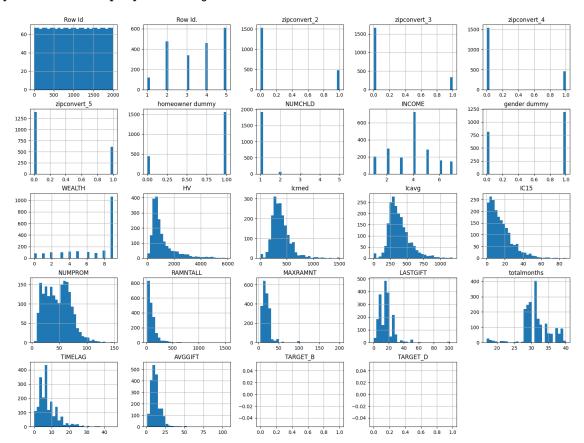
	Row Id	Row Id. z	ipconvert_2	zipconvert_3	<pre>zipconvert_4 \</pre>	
count	2000.000000	2000.000000	2000.000000	2000.000000	2000.000000	
mean	1000.500000	3.482500	0.237500	0.168500	0.230000	
std	577.494589	1.300592	0.425658	0.374403	0.420938	
min	1.000000	1.000000	0.000000	0.000000	0.000000	
25%	500.750000	2.000000	0.000000	0.000000	0.000000	
50%	1000.500000	4.000000	0.000000	0.000000	0.000000	
75%	1500.250000	5.000000	0.000000	0.000000	0.000000	
max	2000.000000	5.000000	1.000000	1.000000	1.000000	
	zipconvert_5	homeowner dum	my NUMC	HLD INCO	ME gender dummy	\
count	2000.00000	2000.000	00 2000.000	000 2000.00000	2000.000000	
mean	0.30450	0.778	1.052	000 3.82150	0.595500	
std	0.46031	0.415	36 0.278	091 1.63859	0.490918	
min	0.00000	0.000	00 1.000	000 1.00000	0.00000	
25%	0.00000	1.000	00 1.000	000 2.75000	0.00000	
50%	0.00000	1.000	00 1.000	000 4.0000	1.000000	
75%	1.00000	1.000	00 1.000	000 5.0000	1.00000	
max	1.00000	1.000	00 5.000	000 7.0000	1.00000	

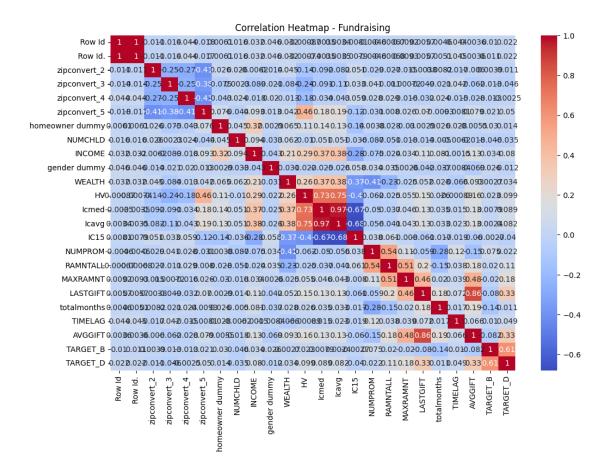
	TC	15 NIIMI	мОя	D V W V G	тт	млу	тимия	т	NGTGTET	\
										`
•••	2000.0000									
•••	15.1770	00 47.363	3000	103.0054	25	19.2	70305	16	.478900	
•••	12.5779	88 22.963	3991	98.8449	43	11.7	52492	9	.714386	
•••	0.0000	00 4.000	0000	15.0000	00	5.0	00000	0	.000000	
	5.7500	00 27.000	000	42.0000	00	14.0	00000	10	.000000	
•••	12.0000	00 47.000	0000	80.0000	00	17.0	00000	15	.000000	
•••	22.0000	00 64.000	0000	132.0000	00	22.0	00000	20	.000000	
•••	87.0000	00 148.000	0000	1526.0000	00	200.0	00000	105	.000000	
to	talmonths	TIMELAC	7	AVGGIFT	TAR	GET_B	TARGE	T_D		
2	000.0000	2000.000000	20	000.00000		0.0		0.0		
	31.29300	7.678000)	13.051707		NaN		NaN		
	4.04244	5.652459)	7.982889		NaN		NaN		
	17.00000	0.000000)	1.636364		NaN		NaN		
	29.00000	4.000000)	8.408824		NaN		NaN		
	31.00000	6.000000)	11.600000		NaN		NaN		
	33.00000	10.000000)	15.211806		NaN		NaN		
	40.00000	45.000000) 1	.05.000000		NaN		NaN		
	 	2000.0000 15.1770 12.5779 0.0000 5.7500 12.0000 22.0000 87.0000 totalmonths 2000.00000 31.29300 4.04244 17.00000 29.00000 31.00000 33.00000	2000.000000 2000.0000 15.177000 47.363 12.577988 22.963 0.0000000 4.0000 5.750000 27.0000 12.000000 47.0000 22.000000 64.0000 87.000000 148.0000 31.29300 7.678000 4.04244 5.652453 17.00000 0.0000000 29.00000 4.0000000 31.000000 6.00000000000000000000000000000	2000.00000 2000.000000 15.177000 47.363000 12.577988 22.963991 0.000000 4.000000 5.750000 27.000000 12.000000 47.000000 22.000000 64.000000 87.000000 148.000000 totalmonths TIMELAG 2000.00000 2000.000000 20 31.29300 7.678000 4.04244 5.652459 17.00000 0.000000 29.00000 4.000000 31.00000 6.000000 33.00000 10.0000000	2000.00000 2000.00000 2000.00000 15.177000 47.363000 103.0054 12.577988 22.963991 98.8449 0.000000 4.000000 15.00000 5.750000 27.000000 42.00000 12.000000 47.000000 80.00000 22.000000 64.000000 132.00000 87.000000 148.000000 1526.00000 87.000000 2000.000000 2000.000000 31.29300 7.678000 13.051707 4.04244 5.652459 7.982889 17.00000 0.000000 1.636364 29.00000 4.000000 8.408824 31.00000 6.000000 15.211806	2000.00000 2000.000000 2000.000000 15.177000 47.363000 103.005425 12.577988 22.963991 98.844943 0.000000 4.000000 15.000000 5.750000 27.000000 42.000000 12.000000 47.000000 80.000000 22.000000 64.000000 132.000000 87.000000 148.000000 1526.000000 totalmonths TIMELAG AVGGIFT TAR 2000.00000 2000.000000 2000.000000 31.29300 7.678000 13.051707 4.04244 5.652459 7.982889 17.00000 0.000000 1.636364 29.00000 4.000000 8.408824 31.00000 6.000000 11.600000 33.00000 10.0000000 15.211806	2000.00000 2000.000000 2000.000000 2000.0 15.177000 47.363000 103.005425 19.2 12.577988 22.963991 98.844943 11.7 0.000000 4.000000 15.000000 5.0 5.750000 27.000000 42.000000 14.0 12.000000 47.000000 80.000000 17.0 22.000000 64.000000 132.000000 22.0 87.000000 148.000000 1526.000000 200.0 totalmonths TIMELAG AVGGIFT TARGET_B 2000.00000 2000.000000 2000.000000 0.0 31.29300 7.678000 13.051707 NaN 4.04244 5.652459 7.982889 NaN 17.00000 0.000000 1.636364 NaN 29.00000 4.000000 8.408824 NaN 31.00000 6.000000 11.600000 NaN 33.00000 10.000000 15.211806 NaN	2000.00000 2000.000000 2000.000000 2000.0000000 15.177000 47.363000 103.005425 19.270305 12.577988 22.963991 98.844943 11.752492 0.000000 4.000000 15.000000 5.000000 5.750000 27.000000 42.000000 14.000000 12.000000 47.000000 80.000000 17.000000 22.000000 64.000000 132.000000 22.000000 87.000000 148.000000 1526.000000 200.000000 totalmonths TIMELAG AVGGIFT TARGET_B TARGE 2000.00000 2000.000000 2000.000000 0.0 31.29300 7.678000 13.051707 NaN 4.04244 5.652459 7.982889 NaN 17.00000 0.000000 1.636364 NaN 29.00000 4.000000 8.408824 NaN 31.00000 6.000000 11.600000 NaN 33.00000 10.0000000 15.211806 NaN	2000.000000 2000.000000 2000.000000 2000.000000 2000 15.177000 47.363000 103.005425 19.270305 16 12.577988 22.963991 98.844943 11.752492 9 0.000000 4.000000 15.000000 5.000000 0 5.750000 27.000000 42.000000 14.000000 10 12.000000 47.000000 80.000000 17.000000 15 22.000000 64.000000 132.000000 22.000000 20 87.000000 148.000000 1526.000000 200.000000 105 totalmonths TIMELAG AVGGIFT TARGET_B TARGET_D 2000.00000 2000.000000 2000.000000 0.0 0.	2000.000000 2000.000000 2000.000000 2000.0000000 2000.00000000

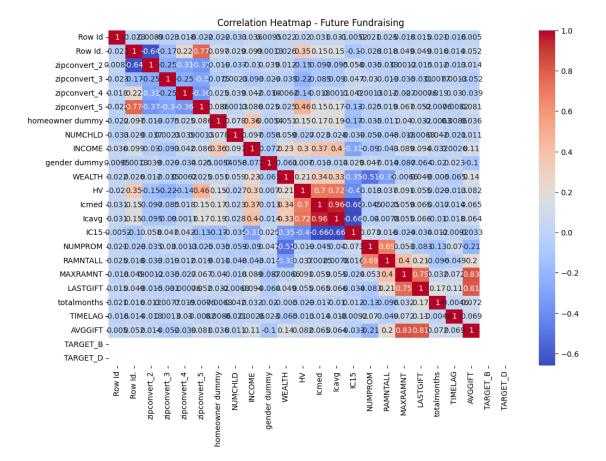
[8 rows x 24 columns]



<IPython.core.display.HTML object>







Question 1

[5]: df.duplicated().sum()

```
[4]: from sklearn.model_selection import train_test_split
    from sklearn.linear_model import LinearRegression
    from sklearn.metrics import mean_squared_error
    from sklearn.linear_model import LogisticRegression
    from sklearn.ensemble import RandomForestClassifier
    from sklearn.metrics import classification_report, confusion_matrix

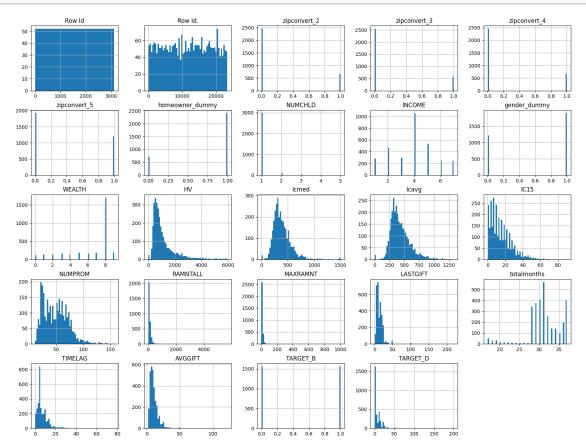
X = df.drop("TARGET_B", axis=1)
    y = df["TARGET_B"]

# 6. Data Preparation
    train, val = train_test_split(df, test_size=0.2, random_state=12345)
```

[5]: 0

```
[6]: df.rename(columns={'gender dummy': 'gender_dummy'}, inplace=True)
df.rename(columns={'homeowner dummy': 'homeowner_dummy'}, inplace=True)
```

```
[7]: df.hist(bins=60, figsize=(20, 15))
plt.show()
```



```
[8]: from sklearn.preprocessing import StandardScaler
    scaler = StandardScaler()
    df_num = df.copy()
    l_cat = []

for col in df:
    if df[col].nunique() <= 21:
        df_num = df_num.drop(col, axis=1)
        l_cat.append(col)

# categorical
    df_cat = df.filter(l_cat, axis = 1)

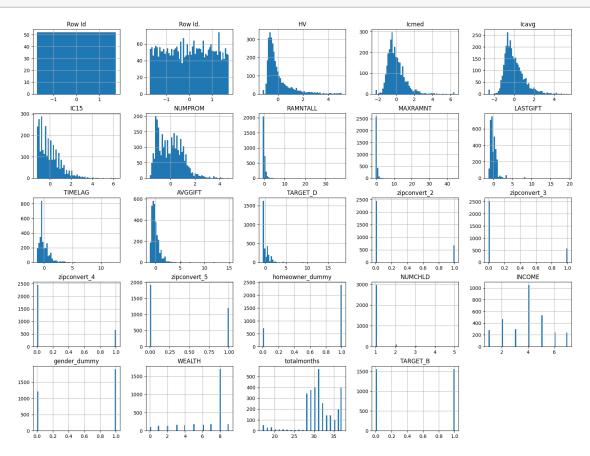
# Ratio</pre>
```

```
df_num_scaled = scaler.fit_transform(df_num)
     df_num.head()
[8]:
        Row Id Row Id.
                               Icmed
                                      Icavg IC15
                                                   NUMPROM
                                                             RAMNTALL MAXRAMNT
                           HV
             1
     0
                         1399
                                 637
                                        703
                                                1
                                                         74
                                                                102.0
                                                                            6.0
                     17
             2
     1
                     25
                          698
                                 422
                                        463
                                                4
                                                         46
                                                                 94.0
                                                                           12.0
     2
             3
                     29
                          828
                                 358
                                        376
                                                13
                                                         32
                                                                 30.0
                                                                           10.0
     3
             4
                     38
                         1471
                                 484
                                        546
                                                4
                                                         94
                                                                177.0
                                                                           10.0
     4
             5
                                        432
                                                7
                                                         20
                                                                 23.0
                     40
                          547
                                 386
                                                                           11.0
        LASTGIFT
                  TIMELAG
                            AVGGIFT
                                     TARGET_D
     0
             5.0
                        3 4.857143
                                          5.0
            12.0
     1
                        6 9.400000
                                         10.0
     2
             5.0
                        7 4.285714
                                          5.0
     3
             8.0
                        3 7.080000
                                          0.0
     4
            11.0
                        6 7.666667
                                          0.0
[9]: #concatenating datasets for visualization purposes
     df_num_scaled = pd.DataFrame(df_num_scaled, columns=df_num.columns)
     Scaled_df = pd.concat([df_num_scaled, df_cat], axis = 1)
     Scaled_df.head()
[9]:
                                         Icmed
          Row Id
                   Row Id.
                                  HV
                                                    Icavg
                                                               IC15
                                                                      NUMPROM \
                            0.272204
                                      1.439813 1.610958 -1.134538
     0 -1.731496 -1.731779
                                                                     1.096731
     1 -1.730385 -1.730585 -0.468427
                                      2 -1.729275 -1.729987 -0.331078 -0.174881 -0.333524 -0.140991 -0.752391
     3 -1.728165 -1.728644 0.348274 0.554336
                                                0.677369 -0.886151 1.977265
     4 -1.727055 -1.728345 -0.627964 -0.012833 -0.000524 -0.637764 -1.280711
        RAMNTALL MAXRAMNT LASTGIFT
                                         zipconvert_3
                                                        zipconvert_4
     0 -0.057035 -0.479362 -0.805588
                                                     1
     1 -0.111354 -0.209334 -0.143946
                                                     0
                                                                   0
     2 -0.545912 -0.299343 -0.805588
                                                     0
                                                                   0
     3 0.452212 -0.299343 -0.522027
                                                     0
                                                                   0
     4 -0.593441 -0.254339 -0.238467
                                                     1
                                                                   0
        zipconvert_5
                      homeowner dummy
                                       NUMCHLD
                                                INCOME
                                                        gender dummy
                                                                       WEALTH
     0
                   0
                                    1
                                             1
                                                      5
                                                                    1
                                                                            9
                                                                    0
                                                                            7
     1
                   0
                                    1
                                             1
                                                      1
     2
                   1
                                    0
                                             2
                                                      5
                                                                    1
                                                                            8
                                                      3
     3
                   1
                                    1
                                             1
                                                                    0
                                                                            4
                                                      4
     4
                   0
                                    1
                                             1
                                                                    0
                                                                            8
        totalmonths
                     TARGET B
     0
                 29
                            1
                            1
     1
                 34
```

```
2 29 1
3 30 0
4 30 0
```

[5 rows x 24 columns]

```
[10]: Scaled_df.hist(bins=60, figsize=(20,15))
plt.show()
```



```
[11]: corr = Scaled_df.corr()
plt.figure(figsize=(20,20))
sns.heatmap(corr, cbar=True, fmt='.2f', annot=True, annot_kws={'size':15},

cmap='Greens')
```

[11]: <Axes: >

```
HV -0.00-0.00 1.00 0.73 0.75 -0.40-0.06-0.02 0.06 0.15 -0.00 0.16 0.10 -0.14-0.24-0.18 0.46 0.11 -0.01 0.29 -0.02 0.26 0.03 0.02
                                kmed -0.00-0.00 0.73 1.00 0.97-0.67-0.05-0.040.05 0.13 0.02 0.13 0.09-0.09-0.09-0.030.18 0.14 0.05 0.37-0.03 0.37 0.03 0.01
                                  κανς -0.00 0.00 0.75 0.97 1.00 -0.68-0.06-0.04 0.04 0.13 0.02 0.13 0.08-0.08-0.11-0.04 0.19 0.13 0.05 0.38 -0.03 0.38 0.03 0.00
                                    K15 -0.01 0.01 -0.40-0.67-0.68 1.00 0.04 0.06 -0.01-0.06-0.02-0.06-0.040.05 0.03 0.06 -0.12-0.14-0.04-0.28 0.06 -0.37-0.02-0.00
                       NUMPROM -0.00-0.00-0.06-0.05-0.060.04 1.00 0.54 0.11-0.060.12-0.15 0.02-0.03 0.04 0.03-0.03 0.00 -0.09-0.07 0.03 -0.41-0.28 0.07
                       RAMNTALL -0.00-0.00-0.02-0.04-0.04-0.06 0.54 1.00 0.51 0.20 0.04 0.18 0.11-0.03-0.01-0.03 0.01-0.03-0.05-0.02 0.04 -0.23-0.15 0.02
                    MAXRAMNT -0.01 0.01 0.06 0.05 0.04 -0.01 0.11 0.51 1.00 0.46 0.04 0.48 0.18 -0.02 0.00 -0.02 0.03 -0.03 -0.02 0.03 0.00 -0.02 0.02 -0.02
                        LASTGIFT -0.01 0.01 0.15 0.13 0.13 -0.06-0.060.20 0.46 1.00 0.07 0.86 0.33 -0.00-0.05-0.030.07 0.00 -0.010.11 -0.040.05 0.18 -0.08
                          TIMELAG -0.04 0.04-0.000.02 0.02-0.02 0.12 0.04 0.04 0.07 1.00 0.07 0.05-0.02 0.04 -0.02-0.01 0.03-0.01-0.00-0.01-0.070.02 0.01
                          AVGGIFT -0.00 0.00 0.16 0.13 0.13 -0.06-0.15 0.18 0.48 0.86 0.07 1.00 0.33 -0.01-0.06-0.030.08 -0.01-0.020.13 -0.07 0.09 0.19 -0.08
                       TARGET_D-0.02 0.02 0.10 0.09 0.08-0.040.02 0.11 0.18 0.33 0.05 0.33 1.00-0.01-0.05-0.000.05 0.01-0.030.08-0.010.03 0.01 0.61
                 \underline{\textbf{zipconvert}}. \underline{\textbf{z}} + 0.01 - 0.01 - 0.01 + 0.09 + 0.080.05 - 0.03 - 0.03 - 0.02 - 0.00 - 0.02 - 0.01 - 0.01 \\ \underline{\textbf{1.00}} - 0.25 - 0.27 - 0.41 \\ \underline{\textbf{0.03}} \ 0.03 - 0.01 - 0.01 \\ \underline{\textbf{0.03}} \ 0.03 - 0.01 - 0.01 \\ \underline{\textbf{0.05}} \ 0.03 - 0.01 \\ \underline{\textbf{0.05}} \ 0.03 - 0.01 \\ \underline{\textbf{0.05}} \ 0.03 \\ \underline{\textbf{0.05}} \ 0.03 - 0.01 \\ \underline{\textbf{0.05}} \ 0.03 \\ \underline{\textbf{
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homeowner_dummy -0.01 0.01 0.11 0.14 0.13-0.14 0.00-0.03-0.03 0.00 0.03-0.010.01 0.03-0.07-0.040.08 1.00 0.05 0.32 0.00 0.06 0.03 0.03
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                            NCOME -0.03 0.03 0.29 0.37 0.38 -0.28-0.07-0.020.03 0.11-0.000.13 0.08-0.01-0.09-0.020.09 0.32 0.09 1.00 -0.04 0.21 0.08 0.03
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```

```
[12]: from sklearn.pipeline import Pipeline
    from sklearn.preprocessing import StandardScaler
    from sklearn.impute import SimpleImputer
    from sklearn.base import BaseEstimator, TransformerMixin
    from sklearn.compose import ColumnTransformer

[13]: Row_ix, RowId_ix, Target_d_ix = 0, 1, -1

class columnDropperTransformer(BaseEstimator, TransformerMixin):
    def __init__(self, columns):
        self.columns = columns
```

```
def transform(self, X):
              return X.drop(X.columns[self.columns], axis=1)
          def fit(self, X, y=None):
              return self
      num_pipeline = Pipeline([
          ('drop_data', columnDropperTransformer([Row_ix, RowId_ix, Target_d_ix])),
          ('imputer', SimpleImputer(strategy="median")),
          ('std_scaler', StandardScaler()),
      1)
      num_attribs = list(df.drop(df_cat.columns, axis=1))
      cat_attribs = list(df_cat.drop(['TARGET_B'], axis=1).columns)
      full_pipeline = ColumnTransformer([
          ("num", num_pipeline, num_attribs),
      ], remainder='passthrough')
      X_train, X_test, y_train, y_test = train_test_split(df.drop("TARGET_B",_
       axis=1), df["TARGET_B"], test_size=0.2, random_state=12345)
      X_prepared = full_pipeline.fit_transform(X_train)
[14]: X_prepared = pd.DataFrame(X_prepared, columns=X_train.columns[2:-1])
[15]: X_prepared.head()
[15]:
         zipconvert_2 zipconvert_3 zipconvert_4 zipconvert_5 homeowner_dummy \
            -0.162999
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                          -0.140958
                                        -0.153803
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```

```
[16]: def score(y_train, train_pred, y_test, test_pred):
        from sklearn import metrics
        print("Training precision: ", metrics.precision_score(y_train, train_pred))
        print("Validation precision: ", metrics.precision_score(y_test, test_pred))
       print("\n")
       print("Training accuracy: ", metrics.accuracy_score(y_train, train_pred))
       print("Validation accuracy: ", metrics.accuracy_score(y_test, test_pred))
      def net(train, test):
       n_of_1s = np.unique(train, return_counts=True)
       n2_of_1s = np.unique(test, return_counts=True)
       n = n_of_1s[1][1]
       n2 = n2_of_1s[1][1]
       net = ((n*13) - (0.68*n))/9.8
       net2 = ((n2*13) - (0.68*n2))/9.8
        return net, net2
      def net_profit(train_pred_1, test_pred_1, train_pred_2, test_pred_2,_u
       strain_pred_3, test_pred_3):
       import matplotlib.pyplot as plt
       net1, net2 = net(train pred 1, test pred 1)
       net3, net4 = net(train_pred_2, test_pred_2)
       net5, net6 = net(train_pred_3, test_pred_3)
       net_df = pd.DataFrame([[net1, net3, net5], [net2, net4, net6]],__

columns=['LR', 'XGB', 'SVC'], index=['train', 'test'])

       plt.bar(['LR', 'XGB', 'SVC'], [net2, net4, net6])
        return net_df
[17]: X_test_pre = full_pipeline.transform(X_test)
      X_test_pre = pd.DataFrame(X_test_pre, columns=X_train.columns[2:-1])
[18]: # remove an error message
      import warnings
      warnings.filterwarnings("ignore")
      from sklearn.linear_model import LogisticRegression
      m = LogisticRegression().fit(X_prepared, y_train)
      train_pred = m.predict(X_prepared)
      test_pred = m.predict(X_test_pre)
```

2.0 3.0

1.0

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29.0

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4

```
score(y_train, train_pred, y_test, test_pred)

Training precision: 0.57348484848485

Validation precision: 0.5391566265060241
```

```
[19]: import xgboost as xgb
      from sklearn.model_selection import RandomizedSearchCV
      parameters = {
              'max_depth': range(2, 6),
              'n_estimators': [50, 100, 150, 200, 250, 300],
              'subsample': [0.6, 0.7, 0.8],
              'colsample_bytree': [0.2, 0.4, 0.5, 0.6, 0.7, 0.8, 1],
              'colsample_bynode': [0.2, 0.4, 0.5, 0.6, 0.7, 0.8, 1],
              'gamma': [0, 5, 10, 15, 20],
              'learning_rate': [0.05, 0.1, 0.15, 0.2, 0.25, 0.3],
              'lambda': [0.1, 0.25, 0.5, 0.75, 1]
      }
      clf = RandomizedSearchCV(xgb.XGBClassifier(use_label_encoder = False,_
       →eval_metric = "logloss"),
                               parameters, n_jobs=4, scoring = "roc_auc", n_iter = __
       ⇒300,
                               random_state = 123)
      clf.fit(X_prepared, y_train)
     /Users/gabrielmancillas/.pyenv/versions/3.12.0/lib/python3.12/site-
```

```
packages/xgboost/core.py:158: UserWarning: [19:18:52] WARNING:
/Users/runner/work/xgboost/xgboost/src/learner.cc:740:
Parameters: { "use_label_encoder" } are not used.

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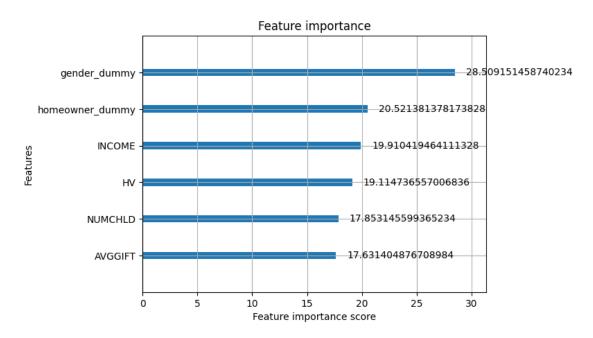
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[19]: RandomizedSearchCV(estimator=XGBClassifier(base_score=None, booster=None,
                                                  callbacks=None,
                                                  colsample_bylevel=None,
                                                  colsample_bynode=None,
                                                  colsample_bytree=None, device=None,
                                                  early_stopping_rounds=None,
                                                  enable_categorical=False,
                                                  eval_metric='logloss',
                                                  feature_types=None, gamma=None,
                                                  grow_policy=None,
                                                  importance_type=None,
                                                  interaction_constraints=None,
                                                  learning rate...
                         n_iter=300, n_jobs=4,
                         param_distributions={'colsample_bynode': [0.2, 0.4, 0.5, 0.6,
                                                                    0.7, 0.8, 1],
                                               'colsample_bytree': [0.2, 0.4, 0.5, 0.6,
                                                                    0.7, 0.8, 1],
                                               'gamma': [0, 5, 10, 15, 20],
                                               'lambda': [0.1, 0.25, 0.5, 0.75, 1],
                                               'learning_rate': [0.05, 0.1, 0.15, 0.2,
                                                                 0.25, 0.3],
                                               'max_depth': range(2, 6),
                                               'n_estimators': [50, 100, 150, 200, 250,
                                                                300],
                                               'subsample': [0.6, 0.7, 0.8]},
                         random_state=123, scoring='roc_auc')
[20]: #optimal hyperparameters
      clf.best_params_
[20]: {'subsample': 0.6,
       'n_estimators': 100,
       'max_depth': 3,
       'learning_rate': 0.1,
       'lambda': 0.75,
       'gamma': 15,
       'colsample_bytree': 0.7,
       'colsample_bynode': 0.6}
```

```
[21]: train_pred2 = clf.predict(X_prepared)
test_pred2 = clf.predict(X_test_pre)
```



```
[23]: score(y_train, train_pred2, y_test, test_pred2)
```

Training precision: 0.5825242718446602 Validation precision: 0.5364238410596026

Training accuracy: 0.5769230769230769 Validation accuracy: 0.5544871794871795

```
[24]: from sklearn.svm import SVC
    clf = SVC(gamma='auto',probability=True).fit(X_prepared, y_train)

    train_pred3 = clf.predict(X_prepared)
    test_pred3 = clf.predict(X_test_pre)

score(y_train, train_pred3, y_test, test_pred3)
```

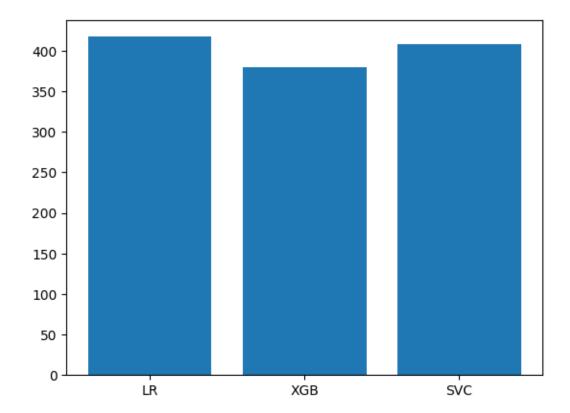
Training precision: 0.6549570647931303

Validation precision: 0.5292307692307693

Training accuracy: 0.6542467948717948 Validation accuracy: 0.5496794871794872

Question 2.3

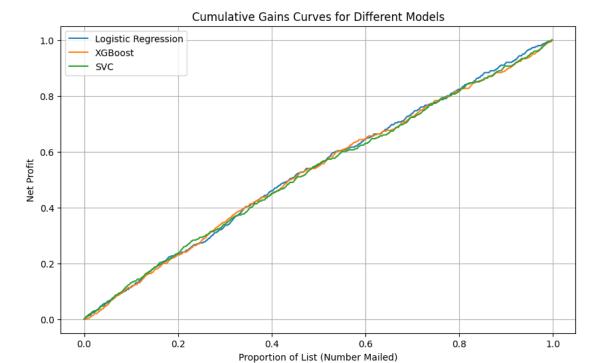
[25]: LR XGB SVC train 1659.428571 1553.828571 1610.400000 test 417.371429 379.657143 408.571429



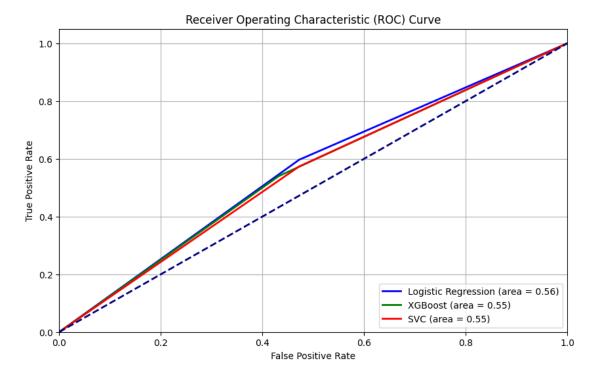
```
[26]: import numpy as np
import matplotlib.pyplot as plt

# Function to calculate cumulative gains
def cumulative_gains(y_true, y_pred):
    sorted_indices = np.argsort(y_pred)[::-1]
    y_true_sorted = y_true.iloc[sorted_indices]
```

```
gains = np.cumsum(y_true_sorted) / np.sum(y_true_sorted)
   return gains
# Calculate cumulative gains for each model
gains_lr = cumulative_gains(y_test, test_pred)
gains_xgb = cumulative_gains(y_test, test_pred2)
gains_svc = cumulative_gains(y_test, test_pred3)
# Plot cumulative gains curves
plt.figure(figsize=(10, 6))
plt.plot(np.arange(len(gains_lr)) / len(gains_lr), gains_lr, label='Logistic_u
 ⇔Regression')
plt.plot(np.arange(len(gains_xgb)) / len(gains_xgb), gains_xgb, label='XGBoost')
plt.plot(np.arange(len(gains_svc)) / len(gains_svc), gains_svc, label='SVC')
plt.xlabel('Proportion of List (Number Mailed)')
plt.ylabel('Net Profit')
plt.title('Cumulative Gains Curves for Different Models')
plt.legend()
plt.grid(True)
plt.show()
```



```
[28]: import scikitplot as skplt
```



[38]: pip install --upgrade pip

Requirement already satisfied: pip in /Users/gabrielmancillas/.pyenv/versions/3.12.0/lib/python3.12/site-packages (23.2.1)
Collecting pip

Obtaining dependency information for pip from https://files.pythonhosted.org/packages/d4/55/90db48d85f7689ec6f81c0db0622d704306c5284850383c090e6c7195a5c/pip-24.2-py3-none-any.whl.metadata

```
Downloading pip-24.2-py3-none-any.whl.metadata (3.6 kB)
     Downloading pip-24.2-py3-none-any.whl (1.8 MB)
                               1.8/1.8 MB
     1.3 MB/s eta 0:00:0000:0100:01
     Installing collected packages: pip
       Attempting uninstall: pip
         Found existing installation: pip 23.2.1
         Uninstalling pip-23.2.1:
           Successfully uninstalled pip-23.2.1
     Successfully installed pip-24.2
     Note: you may need to restart the kernel to use updated packages.
[40]: !pip install scikit-plot
     Requirement already satisfied: scikit-plot in
     /Users/gabrielmancillas/.pyenv/versions/3.12.0/lib/python3.12/site-packages
     (0.3.7)
     Requirement already satisfied: matplotlib>=1.4.0 in
     /Users/gabrielmancillas/.pyenv/versions/3.12.0/lib/python3.12/site-packages
     (from scikit-plot) (3.9.1.post1)
     Requirement already satisfied: scikit-learn>=0.18 in
     /Users/gabrielmancillas/.pyenv/versions/3.12.0/lib/python3.12/site-packages
     (from scikit-plot) (1.5.1)
     Requirement already satisfied: scipy>=0.9 in
     /Users/gabrielmancillas/.pyenv/versions/3.12.0/lib/python3.12/site-packages
     (from scikit-plot) (1.14.0)
     Requirement already satisfied: joblib>=0.10 in
     /Users/gabrielmancillas/.pyenv/versions/3.12.0/lib/python3.12/site-packages
     (from scikit-plot) (1.4.2)
     Requirement already satisfied: contourpy>=1.0.1 in
     /Users/gabrielmancillas/.pyenv/versions/3.12.0/lib/python3.12/site-packages
     (from matplotlib>=1.4.0->scikit-plot) (1.2.1)
     Requirement already satisfied: cycler>=0.10 in
     /Users/gabrielmancillas/.pyenv/versions/3.12.0/lib/python3.12/site-packages
     (from matplotlib>=1.4.0->scikit-plot) (0.12.1)
     Requirement already satisfied: fonttools>=4.22.0 in
     /Users/gabrielmancillas/.pyenv/versions/3.12.0/lib/python3.12/site-packages
     (from matplotlib>=1.4.0->scikit-plot) (4.53.1)
     Requirement already satisfied: kiwisolver>=1.3.1 in
     /Users/gabrielmancillas/.pyenv/versions/3.12.0/lib/python3.12/site-packages
     (from matplotlib>=1.4.0->scikit-plot) (1.4.5)
     Requirement already satisfied: numpy>=1.23 in
     /Users/gabrielmancillas/.pyenv/versions/3.12.0/lib/python3.12/site-packages
     (from matplotlib>=1.4.0->scikit-plot) (1.26.4)
     Requirement already satisfied: packaging>=20.0 in
     /Users/gabrielmancillas/.pyenv/versions/3.12.0/lib/python3.12/site-packages
     (from matplotlib>=1.4.0->scikit-plot) (24.1)
     Requirement already satisfied: pillow>=8 in
```

```
/Users/gabrielmancillas/.pyenv/versions/3.12.0/lib/python3.12/site-packages (from matplotlib>=1.4.0->scikit-plot) (10.4.0)

Requirement already satisfied: pyparsing>=2.3.1 in
/Users/gabrielmancillas/.pyenv/versions/3.12.0/lib/python3.12/site-packages (from matplotlib>=1.4.0->scikit-plot) (3.1.2)

Requirement already satisfied: python-dateutil>=2.7 in
/Users/gabrielmancillas/.pyenv/versions/3.12.0/lib/python3.12/site-packages (from matplotlib>=1.4.0->scikit-plot) (2.9.0.post0)

Requirement already satisfied: threadpoolctl>=3.1.0 in
/Users/gabrielmancillas/.pyenv/versions/3.12.0/lib/python3.12/site-packages (from scikit-learn>=0.18->scikit-plot) (3.5.0)

Requirement already satisfied: six>=1.5 in
/Users/gabrielmancillas/.pyenv/versions/3.12.0/lib/python3.12/site-packages (from python-dateutil>=2.7->matplotlib>=1.4.0->scikit-plot) (1.16.0)
```

```
File ~/.pyenv/versions/3.12.0/lib/python3.12/site-packages/scikitplot/metrics.pj:
        ⇒27
            24 from sklearn.calibration import calibration_curve
            25 from sklearn.utils import deprecated
       ---> 27 from scipy import interp
            29 from scikitplot.helpers import binary_ks_curve, validate_labels
            30 from scikitplot.helpers import cumulative gain curve
       ImportError: cannot import name 'interp' from 'scipy' (/Users/gabrielmancillas/
        apyenv/versions/3.12.0/lib/python3.12/site-packages/scipy/__init__.py)
[53]: # use the future fundraising dataset to predict the target variable
      dff.head()
[53]:
         Row Id Row Id. zipconvert_2 zipconvert_3 zipconvert_4 zipconvert_5 \
      0
              1
                       3
                                     0
                                                   1
              2
                                                                               0
      1
                       4
                                     0
                                                   0
                                                                 1
              3
                       5
                                     0
                                                   0
                                                                 0
                                                                               1
      3
              4
                       1
      4
              5
         homeowner dummy NUMCHLD INCOME gender dummy ... IC15 NUMPROM \
      0
                       1
                                        1
                                                      1
                                                               3
                                                                       42
      1
                       0
                                1
                                        2
                                                      1
                                                               4
                                                                       21
                       0
                                                              10
                                                                       61
      3
                       1
                                1
                                                              21
                                                                       32
                                                        •••
                                                               1
                                                                       47
         RAMNTALL MAXRAMNT LASTGIFT totalmonths TIMELAG
                                                               AVGGIFT TARGET_B \
      0
            92.0
                       29.0
                                 15.0
                                                          8 15.333333
                                                                             NaN
                                                17
             30.0
                       20.0
                                 20.0
                                                             15.000000
      1
                                                33
                                                                             NaN
      2
            220.0
                       35.0
                                 25.0
                                                31
                                                          9 24.44444
                                                                             NaN
      3
            41.0
                      19.0
                                 19.0
                                                31
                                                         13 13.666667
                                                                             NaN
             46.0
                      10.0
                                 10.0
                                                28
                                                              5.750000
      4
                                                                             NaN
         TARGET_D
      0
              NaN
      1
              NaN
      2
              NaN
      3
              NaN
      4
              NaN
      [5 rows x 24 columns]
[54]: # Split data
      X = dff.drop('TARGET_B', axis=1)
      y = dff['TARGET_B']
```

```
[55]: import pandas as pd
      # Ensure X has all necessary columns
      expected_columns = ['homeowner_dummy', 'gender_dummy'] # Add all expected_
       ⇔columns here
      for col in expected_columns:
          if col not in X.columns:
              X[col] = 0 # or any default value that makes sense
      # Process data using full pipeline
      X_prepared = full_pipeline.transform(X)
      # Predict target variable
      from sklearn.svm import SVC
      future_pred = clf.predict(X_prepared)
      result_df = pd.DataFrame(future_pred, columns=['TARGET_B'])
[56]: #predict probability
      future_prob = clf.predict_proba(X_prepared)
      future_prob = future_prob.reshape(2, 2000)
      result_df['prop_0'] = future_prob[0]
      result_df['prop_1'] = future_prob[1]
[57]: result_df.sort_values(['prop_1', 'prop_0'], ascending=[False, True],
       →ignore_index=True)
[57]:
           TARGET_B
                       prop_0
                                 prop_1
                  0 0.398131 0.624580
      0
      1
                  0 0.413913 0.624420
      2
                  1 0.494517 0.623034
                  1 0.558859 0.622845
                  0 0.512657 0.617254
                  0 0.487343 0.382746
      1995
      1996
                  1 0.441141 0.377155
      1997
                  1 0.505483 0.376966
      1998
                  0 0.586087 0.375580
                  0 0.601869 0.375420
      1999
      [2000 rows x 3 columns]
[58]: len(result_df[result_df.prop_1 >= 0.53])
[58]: 611
```

[]: