

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_4.1/Fundraising.csv")
dff = pd.read_csv("/Users/gabrielmancillas/Desktop/ADS 505-01/Mod 04/Assignment_4.1/FutureFundraising.csv")

# 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	0	
1	2	25	1	0	0	0	
2	3	29	0	0	0	1	
3	4	38	0	0	0	1	
4	5	40	0	1	0	0	

	homeowner dummy	NUMCHLD	INCOME	gender dummy	...	IC15	NUMPROM	\
0	1	1	5	1	...	1	74	
1	1	1	1	0	...	4	46	
2	0	2	5	1	...	13	32	
3	1	1	3	0	...	4	94	
4	1	1	4	0	...	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	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>

	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	24.444444	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
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_4.1/Fundraising.csv")
dff = pd.read_csv("/Users/gabrielmancillas/Desktop/ADS 505-01/Mod 04/Assignment_4.1/FutureFundraising.csv")

# 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>'))
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	1	17	0	1	0	0	
1	2	25	1	0	0	0	
2	3	29	0	0	0	1	
3	4	38	0	0	0	1	
4	5	40	0	1	0	0	

	homeowner dummy	NUMCHLD	INCOME	gender dummy	...	IC15	NUMPROM	\
0	1	1	5	1	...	1	74	
1	1	1	1	0	...	4	46	
2	0	2	5	1	...	13	32	
3	1	1	3	0	...	4	94	
4	1	1	4	0	...	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	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

<IPython.core.display.HTML object>

	Row Id	Row Id.	zipconvert_2	zipconvert_3	zipconvert_4 \
count	3120.000000	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
max	3120.000000	23293.000000	1.000000	1.000000	1.000000

	zipconvert_5	homeowner dummy	NUMCHLD	INCOME	gender dummy \
count	3120.000000	3120.000000	3120.000000	3120.000000	3120.000000
mean	0.384615	0.770192	1.069231	3.893910	0.609295
std	0.486582	0.420777	0.347688	1.636186	0.487987
min	0.000000	0.000000	1.000000	1.000000	0.000000
25%	0.000000	1.000000	1.000000	3.000000	0.000000
50%	0.000000	1.000000	1.000000	4.000000	1.000000
75%	1.000000	1.000000	1.000000	5.000000	1.000000
max	1.000000	1.000000	5.000000	7.000000	1.000000

	...	IC15	NUMPROM	RAMNTALL	MAXRAMNT	LASTGIFT \
count	...	3120.000000	3120.000000	3120.000000	3120.000000	3120.000000
mean	...	14.702885	49.089423	110.399875	16.651397	13.522917
std	...	12.079882	22.717130	147.299933	22.223521	10.581439
min	...	0.000000	11.000000	15.000000	5.000000	0.000000
25%	...	5.000000	29.000000	45.000000	10.000000	7.000000
50%	...	12.000000	48.000000	81.000000	15.000000	10.000000
75%	...	21.000000	65.000000	134.625000	20.000000	16.000000
max	...	90.000000	157.000000	5674.900000	1000.000000	219.000000

	totalmonths	TIMELAG	AVGGIFT	TARGET_B	TARGET_D
count	3120.000000	3120.000000	3120.000000	3120.000000	3120.000000
mean	31.136859	6.861859	10.690713	0.500000	6.499612
std	4.132952	5.561209	7.443980	0.500008	10.597849
min	17.000000	0.000000	2.138889	0.000000	0.000000
25%	29.000000	3.000000	6.356092	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

<IPython.core.display.HTML object>

	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	24.444444	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
2	NaN
3	NaN
4	NaN

[5 rows x 24 columns]

<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
---	-----	-----	-----
0	Row Id	2000 non-null	int64
1	Row Id.	2000 non-null	int64
2	zipconvert_2	2000 non-null	int64
3	zipconvert_3	2000 non-null	int64
4	zipconvert_4	2000 non-null	int64
5	zipconvert_5	2000 non-null	int64
6	homeowner dummy	2000 non-null	int64
7	NUMCHLD	2000 non-null	int64
8	INCOME	2000 non-null	int64
9	gender dummy	2000 non-null	int64
10	WEALTH	2000 non-null	int64
11	HV	2000 non-null	int64
12	Icmed	2000 non-null	int64
13	Icavg	2000 non-null	int64
14	IC15	2000 non-null	int64
15	NUMPROM	2000 non-null	int64
16	RAMNTALL	2000 non-null	float64
17	MAXRAMNT	2000 non-null	float64
18	LASTGIFT	2000 non-null	float64
19	totalmonths	2000 non-null	int64
20	TIMELAG	2000 non-null	int64
21	AVGGIFT	2000 non-null	float64
22	TARGET_B	0 non-null	float64
23	TARGET_D	0 non-null	float64

dtypes: float64(6), int64(18)

memory usage: 375.1 KB

None

<IPython.core.display.HTML object>

	Row Id	Row Id.	zipconvert_2	zipconvert_3	zipconvert_4	\
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 dummy	NUMCHLD	INCOME	gender dummy	\
count	2000.000000	2000.000000	2000.000000	2000.000000	2000.000000	
mean	0.30450	0.77850	1.052000	3.821500	0.595500	
std	0.46031	0.41536	0.278091	1.638591	0.490918	
min	0.000000	0.000000	1.000000	1.000000	0.000000	
25%	0.000000	1.000000	1.000000	2.750000	0.000000	
50%	0.000000	1.000000	1.000000	4.000000	1.000000	
75%	1.000000	1.000000	1.000000	5.000000	1.000000	
max	1.000000	1.000000	5.000000	7.000000	1.000000	

	...	IC15	NUMPROM	RAMNTALL	MAXRAMNT	LASTGIFT	\
count	...	2000.000000	2000.000000	2000.000000	2000.000000	2000.000000	
mean	...	15.177000	47.363000	103.005425	19.270305	16.478900	
std	...	12.577988	22.963991	98.844943	11.752492	9.714386	
min	...	0.000000	4.000000	15.000000	5.000000	0.000000	
25%	...	5.750000	27.000000	42.000000	14.000000	10.000000	
50%	...	12.000000	47.000000	80.000000	17.000000	15.000000	
75%	...	22.000000	64.000000	132.000000	22.000000	20.000000	
max	...	87.000000	148.000000	1526.000000	200.000000	105.000000	

	totalmonths	TIMELAG	AVGGIFT	TARGET_B	TARGET_D
count	2000.000000	2000.000000	2000.000000	0.0	0.0
mean	31.29300	7.678000	13.051707	NaN	NaN
std	4.04244	5.652459	7.982889	NaN	NaN
min	17.00000	0.000000	1.636364	NaN	NaN
25%	29.00000	4.000000	8.408824	NaN	NaN
50%	31.00000	6.000000	11.600000	NaN	NaN
75%	33.00000	10.000000	15.211806	NaN	NaN
max	40.00000	45.000000	105.000000	NaN	NaN

[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          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_4.1/Fundraising.csv")
dff = pd.read_csv("/Users/gabrielmancillas/Desktop/ADS 505-01/Mod 04/Assignment_4.1/FutureFundraising.csv")

# 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>'))

```

```

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>'))
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 \
count	3120.000000	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
max	3120.000000	23293.000000	1.000000	1.000000	1.000000

	zipconvert_5	homeowner dummy	NUMCHLD	INCOME	gender dummy \
count	3120.000000	3120.000000	3120.000000	3120.000000	3120.000000
mean	0.384615	0.770192	1.069231	3.893910	0.609295
std	0.486582	0.420777	0.347688	1.636186	0.487987
min	0.000000	0.000000	1.000000	1.000000	0.000000

25%	0.000000	1.000000	1.000000	3.000000	0.000000
50%	0.000000	1.000000	1.000000	4.000000	1.000000
75%	1.000000	1.000000	1.000000	5.000000	1.000000
max	1.000000	1.000000	5.000000	7.000000	1.000000

	...	IC15	NUMPROM	RAMNTALL	MAXRAMNT	LASTGIFT	\
count	...	3120.000000	3120.000000	3120.000000	3120.000000	3120.000000	
mean	...	14.702885	49.089423	110.399875	16.651397	13.522917	
std	...	12.079882	22.717130	147.299933	22.223521	10.581439	
min	...	0.000000	11.000000	15.000000	5.000000	0.000000	
25%	...	5.000000	29.000000	45.000000	10.000000	7.000000	
50%	...	12.000000	48.000000	81.000000	15.000000	10.000000	
75%	...	21.000000	65.000000	134.625000	20.000000	16.000000	
max	...	90.000000	157.000000	5674.900000	1000.000000	219.000000	

	totalmonths	TIMELAG	AVGGIFT	TARGET_B	TARGET_D
count	3120.000000	3120.000000	3120.000000	3120.000000	3120.000000
mean	31.136859	6.861859	10.690713	0.50000	6.499612
std	4.132952	5.561209	7.443980	0.50008	10.597849
min	17.000000	0.000000	2.138889	0.00000	0.000000
25%	29.000000	3.000000	6.356092	0.00000	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	Row Id.	zipconvert_2	zipconvert_3	zipconvert_4	\
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	

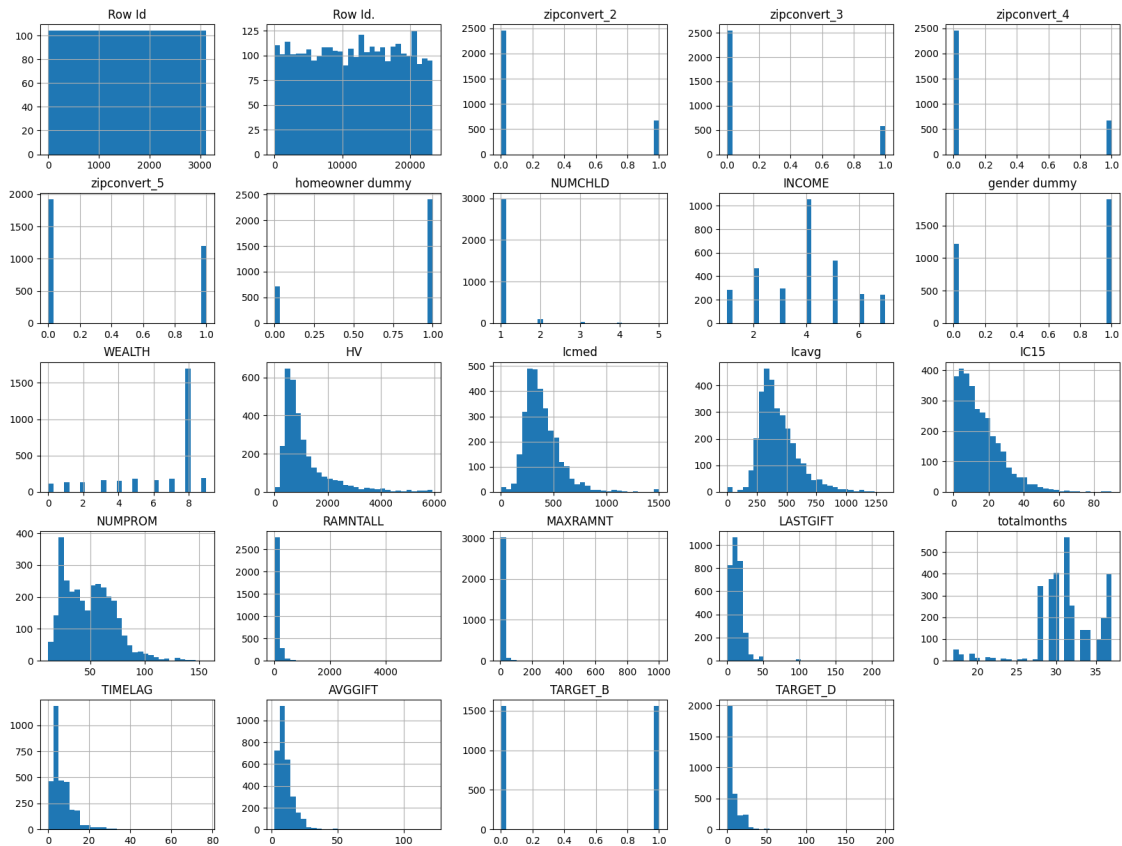
	zipconvert_5	homeowner dummy	NUMCHLD	INCOME	gender dummy	\
count	2000.000000	2000.000000	2000.000000	2000.000000	2000.000000	
mean	0.30450	0.77850	1.052000	3.821500	0.595500	
std	0.46031	0.41536	0.278091	1.638591	0.490918	
min	0.00000	0.00000	1.000000	1.000000	0.000000	
25%	0.00000	1.00000	1.000000	2.750000	0.000000	
50%	0.00000	1.00000	1.000000	4.000000	1.000000	
75%	1.00000	1.00000	1.000000	5.000000	1.000000	
max	1.00000	1.00000	5.000000	7.000000	1.000000	

	...	IC15	NUMPROM	RAMNTALL	MAXRAMNT	LASTGIFT \
count	...	2000.000000	2000.000000	2000.000000	2000.000000	2000.000000
mean	...	15.177000	47.363000	103.005425	19.270305	16.478900
std	...	12.577988	22.963991	98.844943	11.752492	9.714386
min	...	0.000000	4.000000	15.000000	5.000000	0.000000
25%	...	5.750000	27.000000	42.000000	14.000000	10.000000
50%	...	12.000000	47.000000	80.000000	17.000000	15.000000
75%	...	22.000000	64.000000	132.000000	22.000000	20.000000
max	...	87.000000	148.000000	1526.000000	200.000000	105.000000

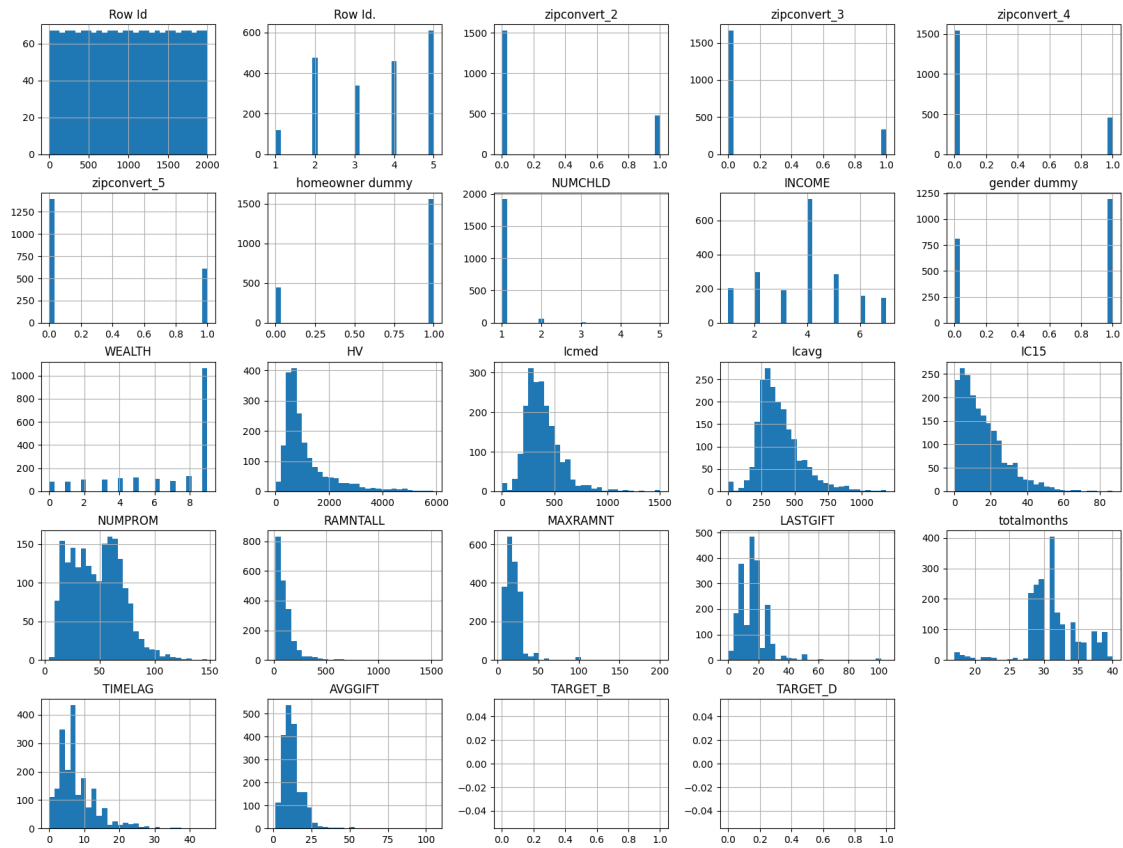
	totalmonths	TIMELAG	AVGGIFT	TARGET_B	TARGET_D
count	2000.00000	2000.000000	2000.000000	0.0	0.0
mean	31.29300	7.678000	13.051707	NaN	NaN
std	4.04244	5.652459	7.982889	NaN	NaN
min	17.00000	0.000000	1.636364	NaN	NaN
25%	29.00000	4.000000	8.408824	NaN	NaN
50%	31.00000	6.000000	11.600000	NaN	NaN
75%	33.00000	10.000000	15.211806	NaN	NaN
max	40.00000	45.000000	105.000000	NaN	NaN

[8 rows x 24 columns]

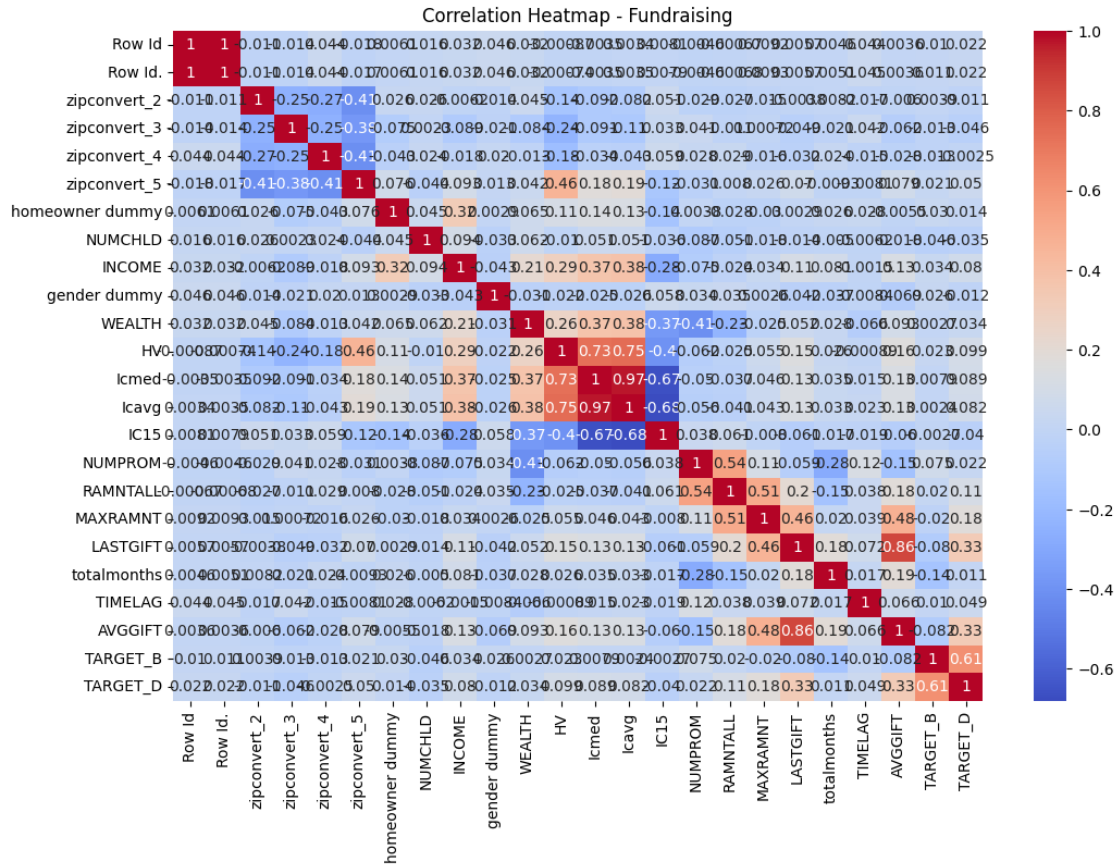
<IPython.core.display.HTML object>



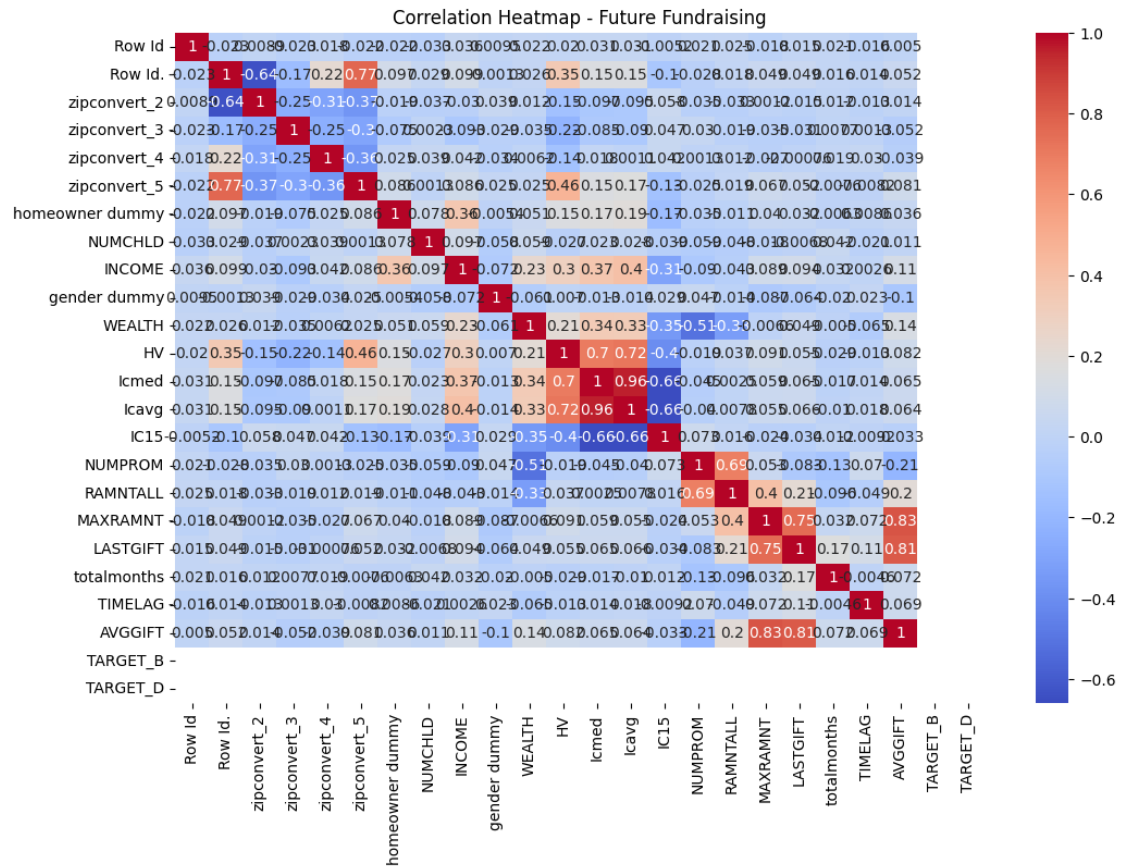
<IPython.core.display.HTML object>



<IPython.core.display.HTML object>



<IPython.core.display.HTML object>



Question 1

```
[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
```

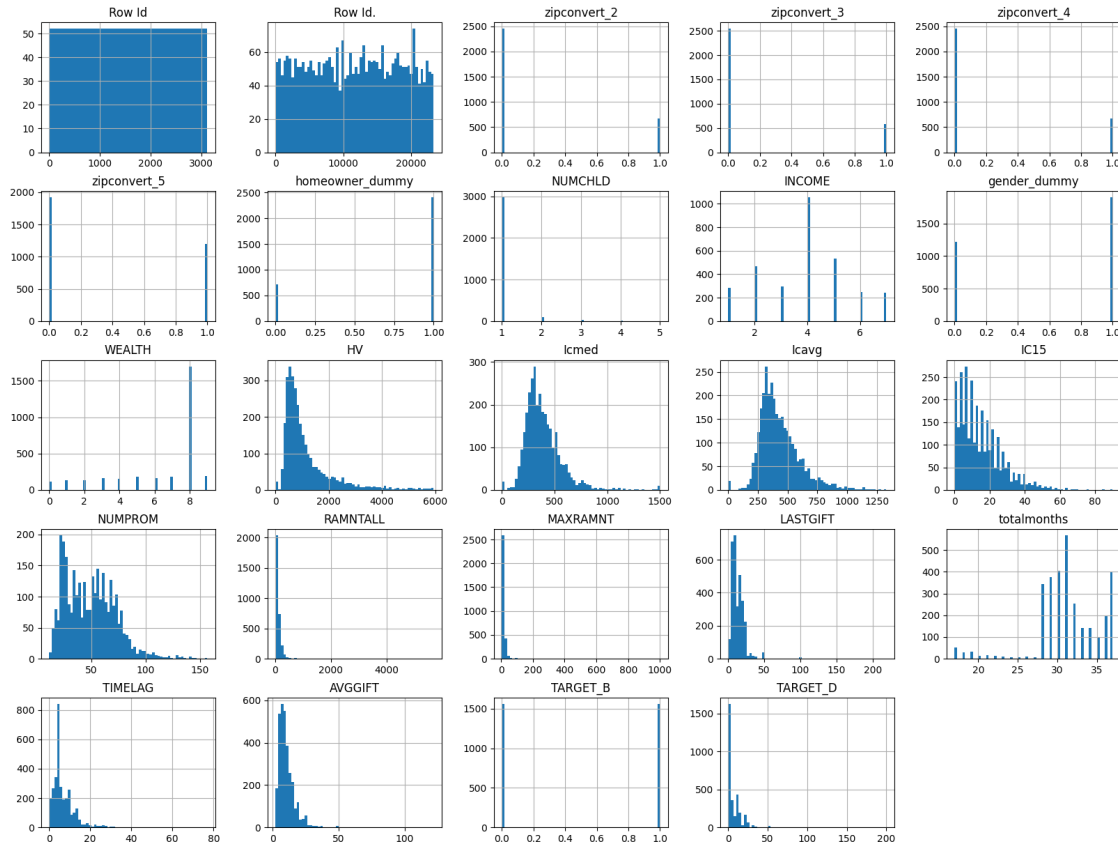
```
train, val = train_test_split(df, test_size=0.2, random_state=12345)
```

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

```
[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
```



```
df_num_scaled = scaler.fit_transform(df_num)
df_num.head()
```

```
[8]:
```

	Row Id	Row Id.	HV	Icmed	Icavg	IC15	NUMPROM	RAMNTALL	MAXRAMNT	\
0	1	17	1399	637	703	1	74	102.0	6.0	
1	2	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	40	547	386	432	7	20	23.0	11.0	

	LASTGIFT	TIMELAG	AVGGIFT	TARGET_D
0	5.0	3	4.857143	5.0
1	12.0	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]:
```

	Row Id	Row Id.	HV	Icmed	Icavg	IC15	NUMPROM	\
0	-1.731496	-1.731779	0.272204	1.439813	1.610958	-1.134538	1.096731	
1	-1.730385	-1.730585	-0.468427	0.195515	0.183815	-0.886151	-0.136017	
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	0	
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	

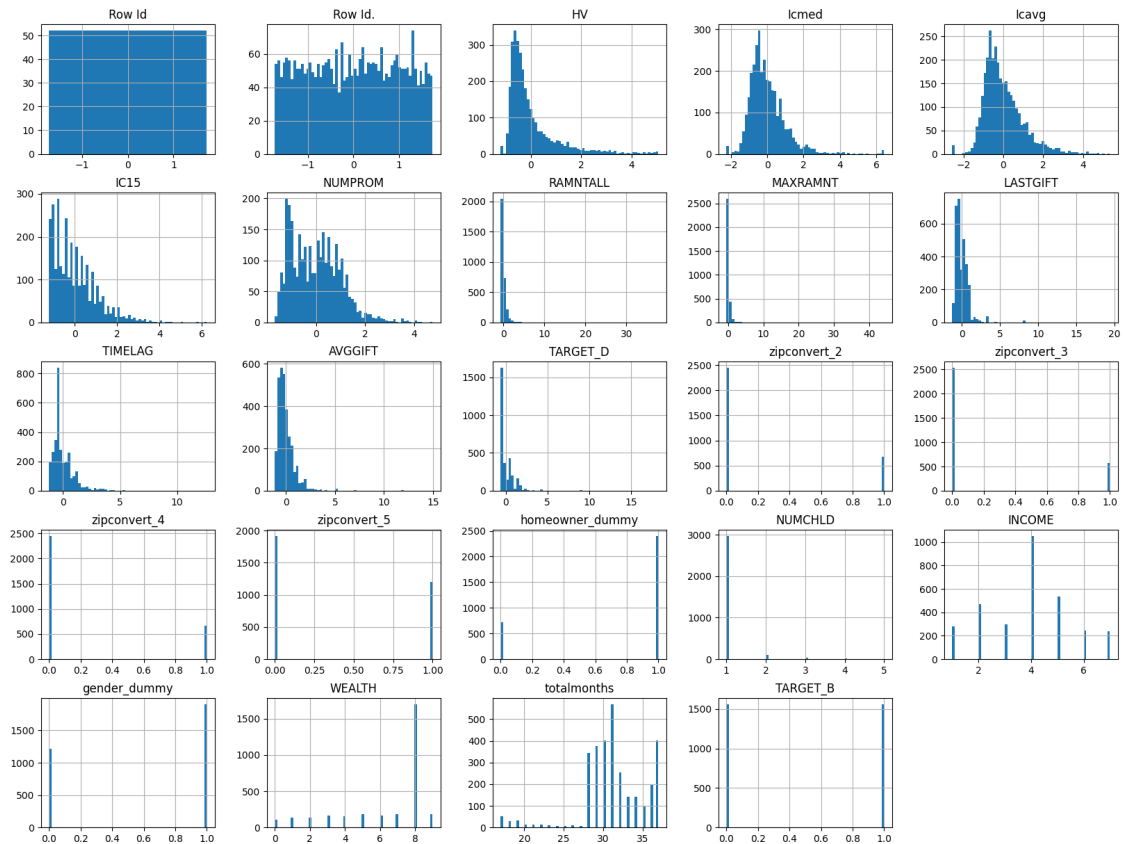
	zipconvert_5	homeowner_dummy	NUMCHLD	INCOME	gender_dummy	WEALTH	\
0	0	1	1	5	1	9	
1	0	1	1	1	0	7	
2	1	0	2	5	1	8	
3	1	1	1	3	0	4	
4	0	1	1	4	0	8	

	totalmonths	TARGET_B
0	29	1
1	34	1

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: >
```



```
[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()),
])

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	-0.162999	-0.140958	-0.153803	-0.643554	-1.069037	
1	-0.793101	-0.625512	-0.587747	0.172578	-0.673346	
2	-0.649169	-0.777299	-0.938470	0.825483	-1.244899	
3	-0.042523	1.236807	1.231252	-1.214845	0.293897	
4	-0.728065	-0.888221	-1.081136	-0.561940	-0.189725	

	NUMCHLD	INCOME	gender_dummy	WEALTH	HV	Icmed	Icavg	IC15	\
0	-0.501734	-0.443354	-0.697739	-1.066196	-0.809061	0.0	0.0	0.0	
1	-0.342814	0.339144	1.060521	-0.884070	0.095686	0.0	0.0	1.0	
2	-0.482663	0.133224	0.135121	-0.519818	0.903901	1.0	0.0	0.0	
3	0.477211	3.427954	-0.790279	-0.519818	1.049645	0.0	0.0	1.0	
4	-0.387312	-0.072697	0.135121	6.765225	-0.089806	0.0	0.0	1.0	

	NUMPROM	RAMNTALL	MAXRAMNT	LASTGIFT	totalmonths	TIMELAG	AVGGIFT
0	1.0	0.0	2.0	3.0	0.0	8.0	29.0
1	0.0	1.0	1.0	4.0	0.0	8.0	37.0
2	0.0	1.0	1.0	5.0	1.0	8.0	37.0
3	0.0	1.0	1.0	4.0	1.0	8.0	26.0

4 0.0 1.0 2.0 3.0 1.0 3.0 29.0

```
[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,
↳train_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)
```

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

Training precision: 0.5734848484848485

Validation precision: 0.5391566265060241

Training accuracy: 0.5729166666666666

Validation accuracy: 0.5608974358974359

```
[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:
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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')
```

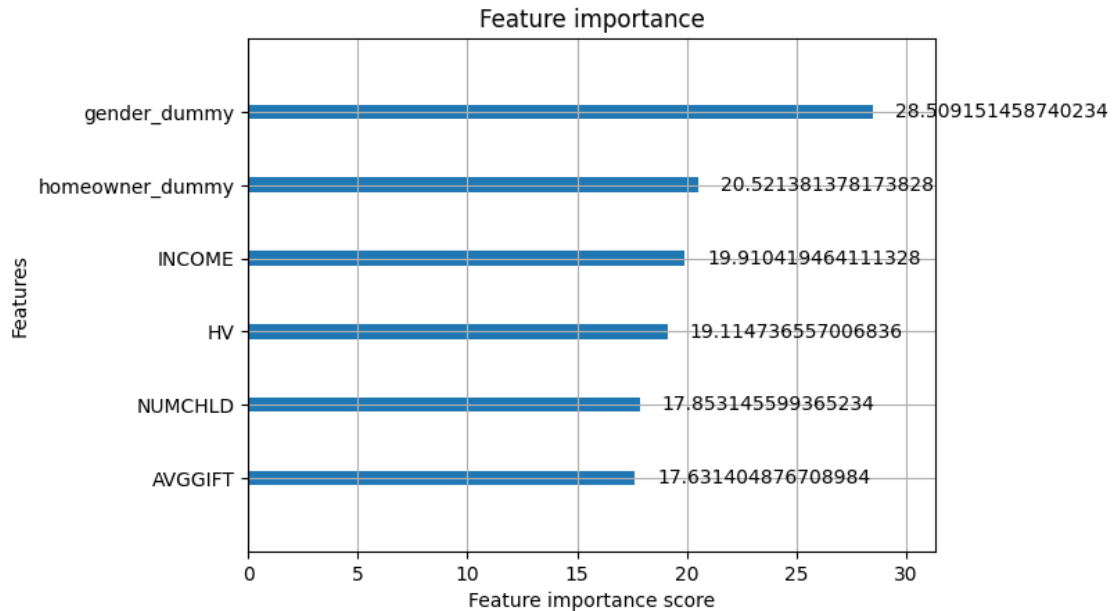
```
[20]: #optimal hyperparameters
      clf.best_params_
```

```
[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)
```

```
[22]: # feature importance
      xgb.plot_importance(clf.best_estimator_, importance_type = "gain", xlabel = "
      ↪"Feature importance score")
```

```
[22]: <Axes: title={'center': 'Feature importance'}, xlabel='Feature importance
      score', ylabel='Features'>
```



```
[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

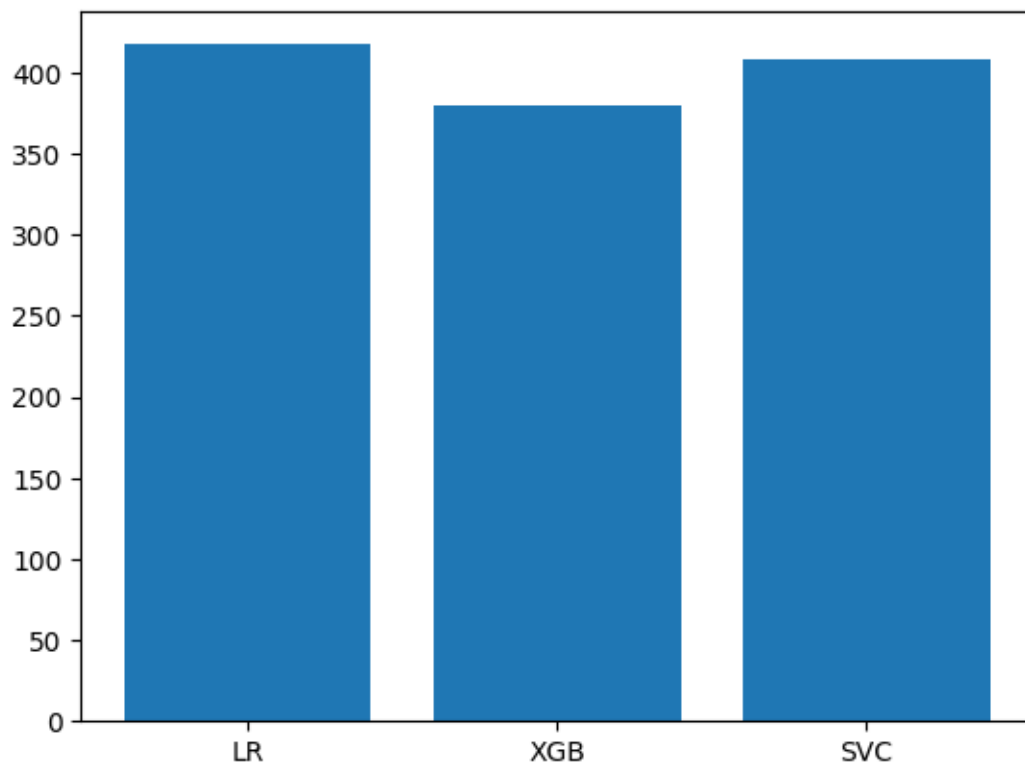
Validation accuracy: 0.5496794871794872

Question 2.3

```
[25]: net_profit(train_pred, test_pred, train_pred2, test_pred2, train_pred3, test_pred3)
```

```
[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]
```

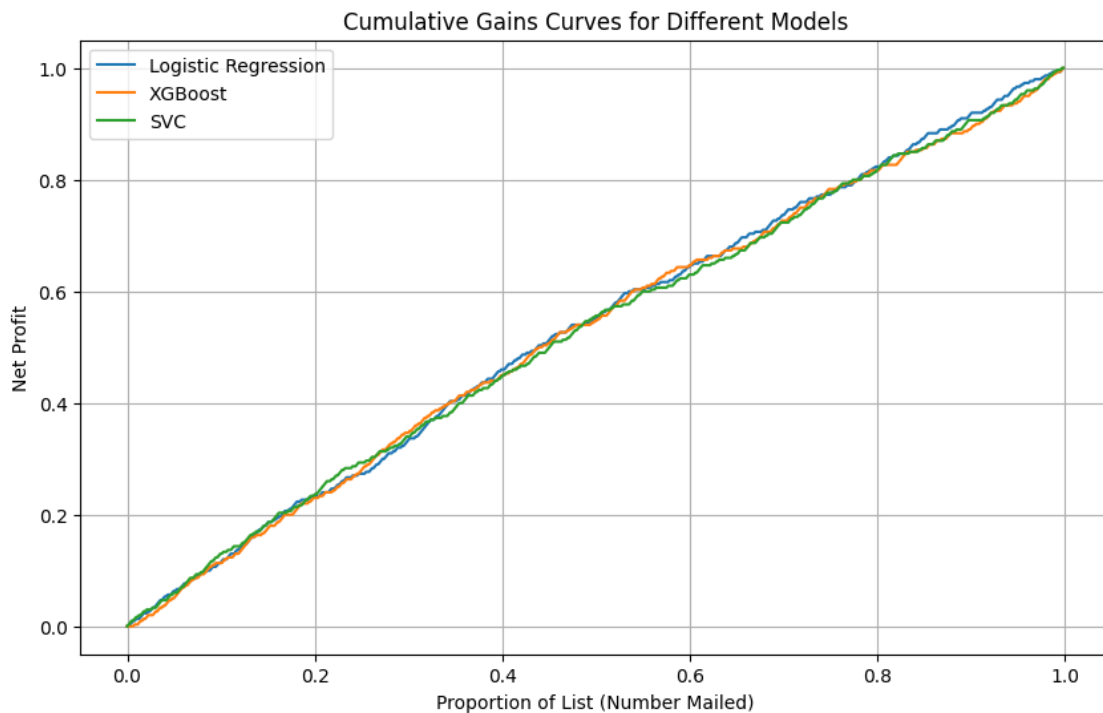
```

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_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()

```



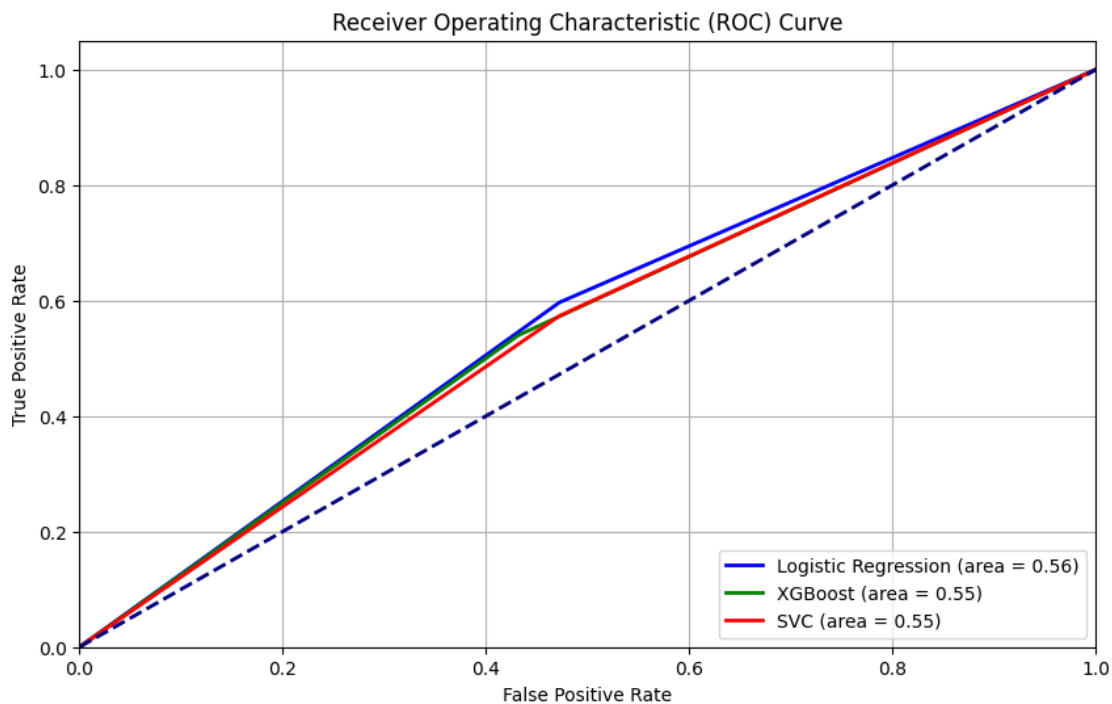
```
[28]: import scikitplot as skplt
```

```

# Deriving class probabilities for each model
predicted_probabilities_lr = m.predict_proba(X_test_pre)
predicted_probabilities_xgb = clf.predict_proba(X_test_pre)
predicted_probabilities_svc = clf.predict_proba(X_test_pre)

# Creating the plot
plt.figure(figsize=(10, 6))
skplt.metrics.plot_cumulative_gain(y_test, predicted_probabilities_lr,
    title='Cumulative Gains Curve - Logistic Regression')
skplt.metrics.plot_cumulative_gain(y_test, predicted_probabilities_xgb,
    title='Cumulative Gains Curve - XGBoost')
skplt.metrics.plot_cumulative_gain(y_test, predicted_probabilities_svc,
    title='Cumulative Gains Curve - SVC')
plt.show()

```



[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/p
ackages/d4/55/90db48d85f7689ec6f81c0db0622d704306c5284850383c090e6c7195a5c/pip-2
4.2-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: cyclor>=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)

```

```

[60]: import scikitplot as skplt

# Deriving class probabilities for each model
predicted_probabilities_lr = m.predict_proba(X_test_pre)
predicted_probabilities_xgb = clf.predict_proba(X_test_pre)
predicted_probabilities_svc = clf.predict_proba(X_test_pre)

# Creating the plot
plt.figure(figsize=(10, 6))
skplt.metrics.plot_cumulative_gain(y_test, predicted_probabilities_lr,
    title='Cumulative Gains Curve - Logistic Regression')
skplt.metrics.plot_cumulative_gain(y_test, predicted_probabilities_xgb,
    title='Cumulative Gains Curve - XGBoost')
skplt.metrics.plot_cumulative_gain(y_test, predicted_probabilities_svc,
    title='Cumulative Gains Curve - SVC')
plt.show()

```

```

-----
ImportError                                Traceback (most recent call last)
Cell In[60], line 1
----> 1 import scikitplot as skplt
      3 # Deriving class probabilities for each model
      4 predicted_probabilities_lr = m.predict_proba(X_test_pre)

File ~/pyenv/versions/3.12.0/lib/python3.12/site-packages/scikitplot/__init__.py:2
      1 from __future__ import absolute_import, division, print_function,
      unicode_literals
----> 2 from . import metrics, cluster, decomposition, estimators
      3 __version__ = '0.3.7'
      6 from scikitplot.classifiers import classifier_factory

```



```
File ~/.pyenv/versions/3.12.0/lib/python3.12/site-packages/scikitplot/metrics.p:
↳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/
↳pyenv/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	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	24.444444	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
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	0.398131	0.624580
1	0	0.413913	0.624420
2	1	0.494517	0.623034
3	1	0.558859	0.622845
4	0	0.512657	0.617254
...
1995	0	0.487343	0.382746
1996	1	0.441141	0.377155
1997	1	0.505483	0.376966
1998	0	0.586087	0.375580
1999	0	0.601869	0.375420

[2000 rows x 3 columns]

```
[58]: len(result_df[result_df.prop_1 >= 0.53])
```

```
[58]: 611
```

[]: