Ideal Customer Marketing Strategy

This project is find out who the target audience is for this specific product

from IPython import display In [4]: display.Image("/home/harlohutch77/python/python_master/wine_bottles.png", height=500, width=800)

AND GIORDANO GEORDANO SYRAH GIORDANO RACCIANTE ANGEOVEN INDICATE A DESCRIPTION

!date In [2]:

Thu 18 May 2023 02:30:25 PM EDT

Out[4]:

In [5]: **import** numpy **as** np import pandas as pd

import matplotlib.pyplot as plt import cufflinks as cf

%matplotlib inline

Year Birth

1957

Education

Graduation

In [6]: # pd to read the csv file idms = pd.read_csv("/home/harlohutch77/python/python_master/marketing_campaign.csv", sep='\t')

ID

5524

idms In [7]:

Marital Status

Single

Out[7]:

In [7]:

08-03-2014 2174 11 ... 1 1954 Graduation Single 46344.0 1 38 Graduation Together 71613.0 1965 0 21-08-2013 26 426 ...

Income

58138.0

4141

0

6182 0 10-02-2014 3 1984 Graduation Together 26646.0 26 11 ... 4 5324 1981 PhD Married 58293.0 1 19-01-2014 173 ... 13-06-2013 709 ... **2235** 10870 1967 Graduation Married 61223.0 2236 2237 1981 Graduation Divorced 56981.0 25-01-2014 908 ... Together 69245.0 2238 8235 1956 Master 24-01-2014 428 ... 2239 9405 1954 PhD Married 52869.0 15-10-2012 84 ... 2240 rows × 29 columns

Kidhome

Teenhome

Dt_Customer

04-09-2012

MntWines

635

Recency

... NumWebVisitsMon

idms[['ID','Education','Marital_Status','Income','Dt_Customer','NumWebVisitsMonth','Recency','MntWines','Z_Reve

Out[8]: 5524 Graduation Single 58138.0

PhD

Single 46344.0

4141 Graduation

6182 Graduation

#this process is to clean up the dataset

04-09-2012 635 11 Single 46344.0 08-03-2014 5 11 1 2174 Graduation 38 11

4

6

5

26

26

94

426

11

173

11

11

11

Marital_Status=Married Marital_Status=Single

ID Education Marital_Status Income Dt_Customer NumWebVisitsMonth Recency MntWines Z_Revenue

2238 8235

Out[9]:

4

5324

2235 10870 Graduation Married 61223.0 13-06-2013 5 709 11 7 2236 4001 PhD Together 64014.0 10-06-2014 406 11 56 2237 7270 Graduation Divorced 56981.0 25-01-2014 6 11 Together 69245.0 24-01-2014 3 8 11 Master 428 2239 9405 PhD Married 52869.0 15-10-2012 7 40 11 2240 rows × 9 columns In [9]: | idms[['Marital_Status','Income','Recency','MntWines','Z_Revenue']]

11

11

21-08-2013

10-02-2014

19-01-2014

0 Single 58138.0

1

2 426 Together 71613.0 26 11

Marital_Status Income Recency MntWines Z_Revenue

58

38

635

11

Together 71613.0

Together 26646.0

Married 58293.0

Together 26646.0 11 3 26 11 4 Married 58293.0 94 173 11 2235 Married 61223.0 46 709 11 2236 Together 64014.0 56 406 11 2237 Divorced 56981.0 91 908 11 2238 Together 69245.0 428 11 Married 52869.0 11 2239 40 84 2240 rows × 5 columns In [10]: # this information below is to import and make the visualizations possible in this project from plotly import __version__ from plotly.offline import download_plotlyjs, init_notebook_mode, plot, iplot

print(__version__) # requires version >= 1.9.0

init_notebook_mode(connected=True)

In [14]: import plotly.graph_objects as go

values = [172000, 284391]

290

693

117 864

93

65210

fig.show()

5.7.0 import cufflinks as cf In [11]:

In [12]: # For Notebooks

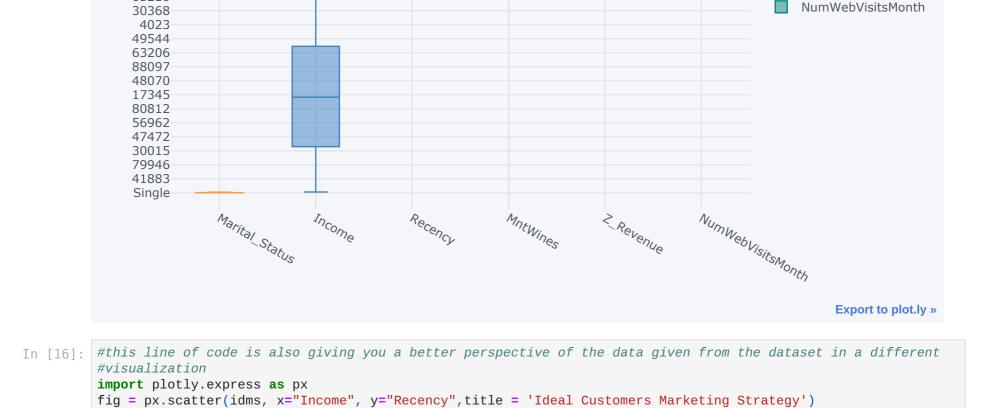
In [13]: # For offline use cf.go_offline()

labels = ['Marital_Status=Single', 'Marital_Status=Married']

fig.show()

fig = go.Figure(data=[go.Pie(labels=labels, values=values, textinfo='label+percent', insidetextorientation='radial')])





/home/harlohutch77/.local/lib/python3.9/site-packages/requests/__init__.py:102: RequestsDependencyWarning:

urllib3 (1.26.9) or chardet (5.0.0)/charset_normalizer (2.0.12) doesn't match a supported version!

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