

Output

Platform Login Credentials | Profile - Student | Churn Modelling | K... | Welcome To Collabor... | Untitled0.ipynb - Col... | WhatsApp

colab.research.google.com/drive/1zgD-33ZikLEG9HaVRZJK7TmNRH_LG6ix#scrollTo=7MwXAe6FZ455

Untitled0.ipynb

File Edit View Insert Runtime Tools Help All changes saved

Comment Share

Files

Code Text

RAM Disk

```
[8]: #import dataset
data = pd.read_csv("Dataset.csv")
data
```

| | RowNumber | CustomerId | Surname | Creditscore | Geography | Gender | Age | Tenure | Balance | NumOfProducts | HasCrCard | IsActiveMember | EstimatedSalary | Exited |
|------|-----------|------------|-----------|-------------|-----------|--------|-----|--------|-----------|---------------|-----------|----------------|-----------------|--------|
| 0 | 1 | 15634602 | Hargrave | 619 | France | Female | 42 | 2 | 0.00 | 1 | 1 | 1 | 101348.88 | 1 |
| 1 | 2 | 15647311 | Hill | 608 | Spain | Female | 41 | 1 | 83607.86 | 1 | 0 | 1 | 112542.58 | 0 |
| 2 | 3 | 15619304 | Onio | 502 | France | Female | 42 | 8 | 159660.80 | 3 | 1 | 0 | 113931.57 | 1 |
| 3 | 4 | 15701354 | Boni | 699 | France | Female | 39 | 1 | 0.00 | 2 | 0 | 0 | 93826.63 | 0 |
| 4 | 5 | 15737888 | Mitchell | 850 | Spain | Female | 43 | 2 | 125510.82 | 1 | 1 | 1 | 79084.10 | 0 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 9995 | 9996 | 15606229 | Objaku | 771 | France | Male | 39 | 5 | 0.00 | 2 | 1 | 0 | 96270.64 | 0 |
| 9996 | 9997 | 15569892 | Johnstone | 516 | France | Male | 35 | 10 | 57369.61 | 1 | 1 | 1 | 101699.77 | 0 |
| 9997 | 9998 | 15584532 | Liu | 709 | France | Female | 36 | 7 | 0.00 | 1 | 0 | 1 | 42085.58 | 1 |
| 9998 | 9999 | 1582355 | Sabbatini | 772 | Germany | Male | 42 | 3 | 75075.31 | 2 | 1 | 0 | 92888.52 | 1 |
| 9999 | 10000 | 15628319 | Walker | 792 | France | Female | 28 | 4 | 130142.79 | 1 | 1 | 0 | 38190.78 | 0 |

10000 rows x 14 columns

```
[35]: data.info()
#checking for null values
data.EstimatedSalary=pd.to_numeric(data.EstimatedSalary,errors='coerce')
data.isnull().any()
data["EstimatedSalary"].fillna(data["EstimatedSalary"].median(),inplace=True)
data.to_csv('A.csv')
```

0s completed at 11:36 PM

Platform Login Credentials | Profile - Student | Churn Modelling | K... | Welcome To Collabor... | Untitled0.ipynb - Col... | WhatsApp

colab.research.google.com/drive/1zgD-33ZikLEG9HaVRZJK7TmNRH_LG6ix#scrollTo=7MwXAe6FZ455

Untitled0.ipynb

File Edit View Insert Runtime Tools Help All changes saved

Comment Share

Files

Code Text

RAM Disk

```
[35]: data.columns (total 14 columns):
# column Non-Null Count dtype
---
0 RowNumber 10000 non-null int64
1 CustomerId 10000 non-null int64
2 Surname 10000 non-null object
3 Creditscore 10000 non-null int64
4 Geography 10000 non-null object
5 Gender 10000 non-null object
6 Age 10000 non-null int64
7 Tenure 10000 non-null int64
8 Balance 10000 non-null float64
9 NumOfProducts 10000 non-null int64
10 HasCrCard 10000 non-null int64
11 IsActiveMember 10000 non-null int64
12 EstimatedSalary 10000 non-null float64
13 Exited 10000 non-null int64
dtypes: float64(2), int64(9), object(3)
memory usage: 1.1+ MB
RowNumber 0
CustomerId 0
Surname 0
Creditscore 0
Geography 0
Gender 0
Age 0
Tenure 0
Balance 0
NumOfProducts 0
HasCrCard 0
IsActiveMember 0
EstimatedSalary 0
Exited 0
dtype: int64
```

0s completed at 11:36 PM

Platform Login Creden...Profile - StudentChurn Modelling | Ka...Welcome To Collabor...Untitled0.ipynb - Col...WhatsApp

colab.research.google.com/drive/1zgD-33ZikLEG9HaVRZJK7TmNRH_LGGix#scrollTo=7MwXAe6FZ45S

Untitled0.ipynb

FileEditViewInsertRuntimeToolsHelpAll changes saved

CommentShare

Files

+ Code+ Text

raise ValueError("Unknown label type: %r" % y_type)

ValueError: Unknown label type: 'unknown'

SEARCH STACK OVERFLOW

[10] data.describe()

| | RowNumber | CustomerId | Creditscore | Age | Tenure | Balance | NumOfProducts | HasCrCard | IsActiveMember | EstimatedSalary | Exited |
|-------|-------------|--------------|--------------|--------------|--------------|---------------|---------------|-------------|----------------|-----------------|--------------|
| count | 10000.00000 | 1.000000e+04 | 10000.000000 | 10000.000000 | 10000.000000 | 10000.000000 | 10000.000000 | 10000.00000 | 10000.000000 | 10000.000000 | 10000.000000 |
| mean | 5000.50000 | 1.569094e+07 | 650.528800 | 38.921800 | 5.012800 | 76485.889288 | 1.530200 | 0.70550 | 0.515100 | 100090.239881 | 0.203700 |
| std | 2086.89568 | 7.193619e+04 | 96.653299 | 10.487806 | 2.892174 | 62397.405202 | 0.561654 | 0.45584 | 0.499797 | 57510.492818 | 0.402769 |
| min | 1.00000 | 1.556570e+07 | 350.000000 | 18.000000 | 0.000000 | 0.000000 | 1.000000 | 0.00000 | 0.000000 | 11.580000 | 0.000000 |
| 25% | 2500.75000 | 1.562853e+07 | 584.000000 | 32.000000 | 3.000000 | 0.000000 | 1.000000 | 0.00000 | 0.000000 | 51002.110000 | 0.000000 |
| 50% | 5000.50000 | 1.569074e+07 | 652.000000 | 37.000000 | 5.000000 | 97198.540000 | 1.000000 | 1.00000 | 1.000000 | 100193.915000 | 0.000000 |
| 75% | 7500.25000 | 1.575323e+07 | 718.000000 | 44.000000 | 7.000000 | 127644.240000 | 2.000000 | 1.00000 | 1.000000 | 149388.247500 | 0.000000 |
| max | 10000.00000 | 1.581569e+07 | 850.000000 | 92.000000 | 10.000000 | 250898.090000 | 4.000000 | 1.00000 | 1.000000 | 199992.480000 | 1.000000 |

[28] plt.figure(figsize=(12,5))

plt.subplot(1,2,1)

sns.distplot(data["tenure"])

plt.subplot(1,2,2)

sns.distplot(data["monthlyCharges"])

Disk84.54 GB available

completed at 11:36 PM

archive (3).zip

Show all