

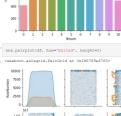
## 1. Download the dataset

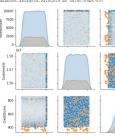
### 2. Load Data

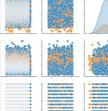
[26]:	Row	Number Cus	stomerki Sun	name CreditScr	ore Geography	Gender Ane Tenure	Ralance I	lumOfProducts HasCrCar	d Is Artive Member	Estimated S	alary Exited		
	0	1	15634602		619	France Female	42	2 0.00	1	1	1	101348.88	- 1
	1	2	15647311	Hill	608	Spain Female	41	1 83807.86	1	0	1	112542.58	0
	2	3	15619304	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
	3. P	erforr	n Belo	ow Visu	ualizati	ons.							

import matplotlib.pyplot as plt import seaborn as sns
Univariate Analysis

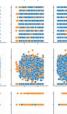
## "Age",grid=False,edgecolor='black') bplot:title={'center':'Age'}>]], dtyp





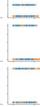


Resure



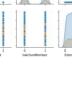














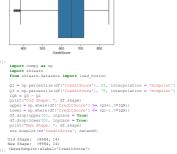
0
 1

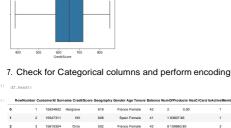
5. Handle the Missing values

df.isnull().sum(

4. Perform descriptive statistics on the dataset

6. Find the outliers and replace the outliers Our [25], <AxesSubplot:xlabel='CreditScore'>





# | Rose-Name | Constructive | Survivarior | Constructive | Construc

8. Split the data into dependent and independent variables

[[1 15634602 'Hargrave' ... 1 1 101348.88] [2 15647311 'Hill' ... 0 1 112542.58] [3 15619304 'Onio' ... 1 0 113931.57]

... [9998 15584532 'Liu' ... 0 1 42085.58] [9999 15682355 'Sabbatini' ... 1 0 92888.52] [10000 15628319 'Walker' ... 1 0 38190.78]] B = df.iloc[:, -1].values print(B) [1 0 1 ... 1 1 0]

9. Scale the independent variables from sklearn.preprocessing import StandardScaler
from sklearn.preprocessing import MinMaxScaler
scaler = MinMaxScaler()
df["CustomerId"]] = scaler.fit\_transform(df[["CustomerId"]])

9995	9996	0.162119	Obijiaku	771	F
9996	9997	0.016765	Johnstone	516	F
9997	9998	0.075327	Liu	709	Fra
9998		0.466637		772	Ge
9999	10000	0.250483	Walker	792	Fra
	Tenure Ba	lance Num	OfProducts HasCrCar	i IsActive	tember '

	Tenure	Balance NumO	fProducts	HasCrCard	IsActive	Member \
0	2	0.00		1	1	1
1	1	83807.86		1	0	1
2	8	159660.80		3	1	0
3	1	0.00		2	0	0
4	2	125510.82		1	1	1
9995	5	0.00		2	1	0
9996	10	57369.61		1	1	1
9997	7	0.00		1	0	1
9998	3	75075.31		2	1	0
9999	4	130142.79		1	1	n

10. Split the data into training and testing

from sklears.nodel selection import train test split
training\_data, testing\_data = train\_test\_split(df, test\_size=0.2, random\_state=25)
print(fflo, of razining examples: (razining\_data happe(0)))
print(fflo, of testing examples: (razining\_data\_shappe(0)))
No. of training examples: 1997
No. of testing\_examples: 1997