```
1 # Importing the libraries
2 import numpy as np
3 import matplotlib.pyplot as plt
4 import pandas as pd
1
2 # Importing the dataset
3 df = pd.read_csv('Data.csv')
1 df['Salary'].fillna((df['Salary'].mean()), inplace= True)
1 df['Age'].fillna((df['Age'].mean()), inplace= True)
1 df['Purchased'] = df['Purchased'].apply(lambda x: 0 if x=='No' else 1)
1 df=pd.get_dummies(data=df, columns=['Country'])
1 df
```

A	.ge	Salary	Purchased	Country_France	e Countr	y_Germany	Country_Spain				
0 44.0000	00 7200	00.000000	0	1		0	0				
1 27.0000	00 4800	00.00000	1	()	0	1				
1 from sklearn.preprocessing import MinMaxScaler											
2 scaler = Min	MaxScale	r()									
J JU.UUU		0.000000	v		,	v	1				
1 scaler.fit(d	f)										
MinMaxScal	er(copy=	True, fea	ture_range=	(0, 1))							
6 38.7777	78 5200	00.000000	0	()	0	1				
1 MinMaxScaler	(copy=Tr	ue, featu	re_range=(0	, 1))							
Må Maus Cara I	(T C	.	(0 1))							
MinMaxScal	er(copy=	irue, tea	ture_range=	(0, 1))							
• 27 0000	000 6700	000000	4	4		^	^				
1 scaled_featu	res = sc	aler.tran	sform(df)								
1 scaled_features											
array([[0. 0.		, 0.68571],	429, 0.	, 1.	, 0.	,					
[0.			, 1.	, 0.	, 0.	,					
[0.	13043478	, 0.17142	857, 0.	, 0.	, 1.	,					
0. [0.], , 0.37142	857, 0.	, 0.	, 0.	,					
1. [0.	56521739], , 0.45079	365, 1.	, 0.	, 1.	,					
0. [0.], , 0.28571	429, 1.	, 1.	, 0.	,					
0.], , 0.11428		, 0.	, 0.						
1.],	, c.	,	,	,					
[0.9		, 0.88571	429, 1.	, 1.	, 0.	,					
0. [1. 0.], , 1.],	, 0.	, 0.	, 1.	,					

```
[0.43478261, 0.54285714, 1. , 1. , 0. , 0. , 0. ]])
```

1 df_MinMax = pd.DataFrame(data=scaled_features, columns=["Age", "Salary", "Purchased", "
2 df_MinMax

	Age	Salary	Purchased	Country_France	Country_Germany	Country_spain
0	0.739130	0.685714	0.0	1.0	0.0	0.0
1	0.000000	0.000000	1.0	0.0	0.0	1.0
2	0.130435	0.171429	0.0	0.0	1.0	0.0
3	0.478261	0.371429	0.0	0.0	0.0	1.0
4	0.565217	0.450794	1.0	0.0	1.0	0.0
5	0.347826	0.285714	1.0	1.0	0.0	0.0
6	0.512077	0.114286	0.0	0.0	0.0	1.0
7	0.913043	0.885714	1.0	1.0	0.0	0.0
8	1.000000	1.000000	0.0	0.0	1.0	0.0
9	0.434783	0.542857	1.0	1.0	0.0	0.0

```
1 import seaborn as sns
```

² plt.figure(figsize=(12,8))

³ sns.distplot(df_MinMax['Salary'])

⁴ import statistics

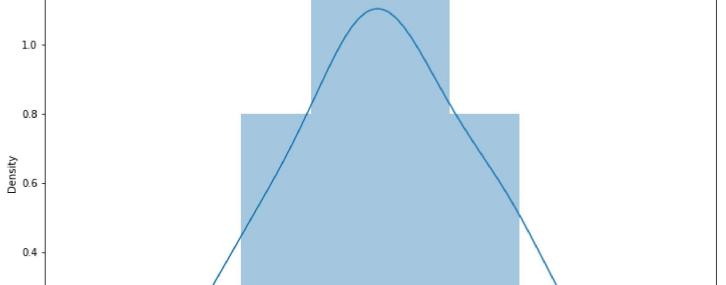
⁵ print("Standard Deviation of df_MinMax_Salary is % s "

/usr/local/lib/python3.7/dist-packages/seaborn/distributions.py:2557: FutureWarning: `distplot` is a deprecated functi warnings.warn(msg, FutureWarning)
Standard Deviation of df_MinMax_Salary is 0.33040284015892535

1.2 1.0 0.8 1.2 0.4 0.2 -

/usr/local/lib/python3.7/dist-packages/seaborn/distributions.py:2557: FutureWarning: `distplot` is a deprecated functi warnings.warn(msg, FutureWarning)







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