```
1 # Importing the libraries
2 import numpy as np
3 import matplotlib.pyplot as plt
4 import pandas as pd
1 from google.colab import drive
2 drive.mount('/content/drive')
   Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", force remo
1 # Importing the dataset
2 df = pd.read_csv('Data.csv')
1 # Fill Missing value
2 df['Salary'].fillna((df['Salary'].mean()), inplace= True)
3 df['Age'].fillna((df['Age'].mean()), inplace= True)
1 #get dummy
2 df['Purchased'] = df['Purchased'].apply(lambda x: 0 if x=='No' else 1)
1 df=pd.get dummies(data=df, columns=['Country'])
1 df
```

	Age	Salary	Purchased	Country_France	Country_Germany	Country_Spain				
	0 44.000000	72000.000000	0	1	0	0				
	1 27.000000	48000.000000	1	0	0	1				
;	2 30.000000	54000.000000	0	0	1	0				
;	3 38.000000	61000.000000	0	0	0	1				
•	4 40.000000	63777.777778	1	0	1	0				
<pre>1 from sklearn.preprocessing import StandardScaler 2 sc_X = StandardScaler()</pre>										
	X = sc_X.fit	79000 000000 _transform(df)	1	1	n	0				
array([[7.58874362e-01, 7.49473254e-01, -1.00000000e+00, 1.22474487e+00, -6.54653671e-01], -6.54653671e-01], [-1.71150388e+00, -1.43817841e+00, 1.00000000e+00, -8.16496581e-01, -6.54653671e-01, 1.52752523e+00], [-1.27555478e+00, -8.91265492e-01, -1.00000000e+00, -8.16496581e-01, 1.52752523e+00, -6.54653671e-01], [-1.13023841e-01, -2.53200424e-01, -1.00000000e+00, -8.16496581e-01, -6.54653671e-01, 1.52752523e+00], [1.77608893e-01, 6.63219199e-16, 1.00000000e+00, -8.16496581e-01, 1.52752523e+00, -6.54653671e-01], [-5.48972942e-01, -5.26656882e-01, 1.00000000e+00, 1.22474487e+00, -6.54653671e-01, -6.54653671e-01], [0.00000000e+00, -1.07356980e+00, -1.00000000e+00, -8.16496581e-01, -6.54653671e-01, 1.52752523e+00], [1.34013983e+00, 1.38753832e+00, 1.00000000e+00, -22474487e+00, -6.54653671e-01, -6.54653671e-01], [1.63077256e+00, 1.75214693e+00, -1.00000000e+00, -8.16496581e-01, 1.52752523e+00, -6.54653671e-01], [-2.58340208e-01, 2.93712492e-01, 1.00000000e+00, -1.22474487e+00, -6.54653671e-01, -6.54653671e-01], [-2.58340208e-01, 2.93712492e-01, 1.00000000e+00, -1.22474487e+00, -6.54653671e-01, -6.54653671e-01])										

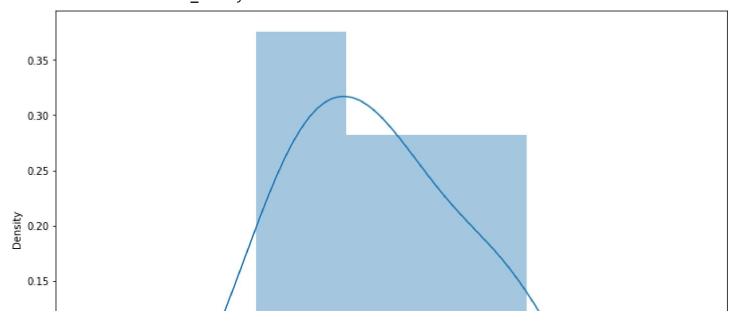
^{1 #}Convert to table format - StandardScaler

² cc Y - nd DataEname (data-cc Y columns-I"Age" "Salany" "Dunchased" "Country Enance" "https://colab.research.google.com/drive/10C6cYllu7oYffVoOtVoksKyyXznfZtgc#scrollTo=JagCijTlgTUr&printMode=true

```
2 SC_X - pu.pacariame(uaca-SC_X, corumnis-[ Age , sarary , rurchaseu , councry_rrance ,
```

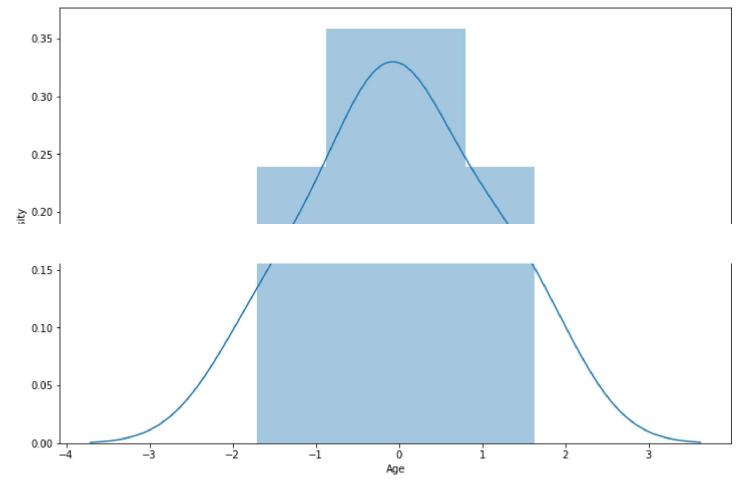
	Age	Salary	Purchased	Country_France	Country_Germany	Country_spain
0	0.758874	7.494733e-01	-1.0	1.224745	-0.654654	-0.654654
1	-1.711504	-1.438178e+00	1.0	-0.816497	-0.654654	1.527525
2	-1.275555	-8.912655e-01	-1.0	-0.816497	1.527525	-0.654654
3	-0.113024	-2.532004e-01	-1.0	-0.816497	-0.654654	1.527525
4	0.177609	6.632192e-16	1.0	-0.816497	1.527525	-0.654654
5	-0.548973	-5.266569e-01	1.0	1.224745	-0.654654	-0.654654
6	0.000000	-1.073570e+00	-1.0	-0.816497	-0.654654	1.527525
7	1.340140	1.387538e+00	1.0	1.224745	-0.654654	-0.654654
8	1.630773	1.752147e+00	-1.0	-0.816497	1.527525	-0.654654
9	-0.258340	2.937125e-01	1.0	1.224745	-0.654654	-0.654654

/usr/local/lib/python3.7/dist-packages/seaborn/distributions.py:2557: FutureWarning: `distplot` is a deprecated functi warnings.warn(msg, FutureWarning)
Standard Deviation of sc_Salary is 1.0540925533894598



1

Standard Deviation of sc_Salary is 1.0540925533894598 /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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