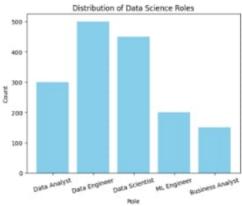
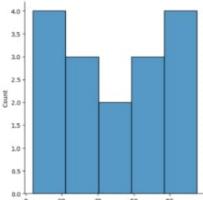


```
import matpletlib.pyplot as plt
# DOCO
rules = ['Data Analyst', 'Data Singineer', 'Data Scientist', 'PU Engineer', 'Business Analyst']
counts = [188, 500, 488, 300, 188]
plt.tar(rules, count, color-'skyblue')
plt.tain('Distribution of Data Science Rules')
plt.tain('Distribution')
plt.tain('Count')
plt.tain('Count')
plt.tain('Count')
plt.tain('Count')
plt.tain('Count')
```

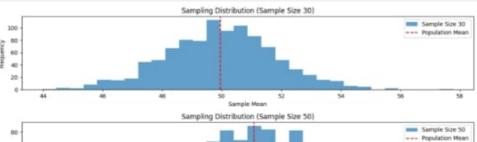


[nltk_data] C:\Unuers\UIDHEUN\uppBata\Amaning\nltk_data... [nltk_data] Package punkt is already up-to-date! [alth_data] Paccage perst is streamy up-to-cate! Fairs [('I', 1), ('Esea', 2), ('by', 1), ('Inne', 1), ('Austen', 1), ('Inne', 1), ('I'), 1), ('VOLDEN', 1), ('I', 2), ('OURTEN', 1), ('I', 2), ('I'), ('I') i), ('the', 2), ('world', 1), ('with', import mampy as up array-up.-residon-residint[1,100,16) def outdetection(array); surful[array) Q1,Q2-up.percentile[array,[25,75]) 100-03-Q1 lr-q2-[1,5*100] sur-q2-[1,5*100] return le_sur lr_ur-autheraction(array) print(lr_ur) import seaborn as has Neutplotlib inline ass.displot(array) ab (NS, 155,656) -59.375 155.625 rm.axisgrid.facetürid at @xi0623e6c350: 4.0 3.5 3.0 2.5 O.s dunt



	CustomariD	Age_Group	Rating(1-5)	Hotel	FoodPreference	800	NoOfPax	EstimatedSalary
0		20-25	4	this	Veg	1300	2	40000
1	2	30-35	5	LamonTree	Non-Veg	2000		59000
2		25-30	6	RedFox	Veg	1322	2	30000
3	- 4	20-23	-1	Lemonthee	Veg	1234	2	120000
4	5	15+	1	this	Veg	989	2	45000
*		35+		this	Non-Veg	1909	2	122220
•		35+	4	RedFox	Veg	1000	-1	21122
7		20-25	7	LemonTree	VHg	2999	-10	345673
		25-30	. 2	tois	Non-Veg	3456	3	-99999
,	10	30-33	5	RedFox	Non-Veg	-6755	4	87777

```
[20] import numpy as no import matplotlib.pyplot as pit
                     # Senerate a population
population - np.random.normal(50, 10, 10
                       # tompting and pintting
sample_sizes = (30, 50, 100)
num_samples = 1000
                     plt.figure(figxin=(13.8))
for i, virs in enumerate(nample virse):
    sample_means = (np.mean(rp.-madow.tholoc(pspulation, size-size, replace-False)) for _ in range(num_namples))
    plt.mabple(ilen(nample xirse), l. 5-1)
    plt.mix(nample means, bins=30, siph==0.7, label="imaple firs (size)")
    plt.mix(insple means, bins=30, siph==0.7, label="imaple firs (size)")
    plt.mix(insple means, bins=30, siph==0.7, label="imaple firs (size)")
    plt.mix(insple means) bins(insple firse)
    plt.vitile(f'sample firse)
    plt.vitile(f'sample firse))
    plt.vitile(f'requirse)')
    plt.leges0()
                       plt.tight_layout()
plt.show()
```



```
import pandes as pd
from sklears.model.selection import train_test_split
from sklears.linear_model.selection import train_test_split
from sklears.linear_model.import (invar*Regression)
df .droupsa(implace=Trax)
df.droupsa(implace=Trax)
features = df.line(i. [8]).values
ished = df.line(i. [1]).values
a_train, a_test, y_train, y_test = train_test_split(features, label, test_siz=0.2, rundom_state=0.2)
model = linear*Regression()
model.filin_train, y_train)
train_score = model.score(x_train, y_train)
test_score = model.score(x_train, y_train)
test_score = model.score(x_train, y_train)
intercept = model.score(x_train, y_train)
print(f'fraining Score) (train_score).28f')
print(f'fraining Score) (train_score).28f')
print(f'forefficient) (corf[0][0]:28f')
print(f'Intercept) (intercept[0]:28f')
```

Training Score: 0.98 Testing Score: 0.90 Coefficient: 9423.82 Intercept: 25321.54

Test: 0.90, Train: 0.84, Random State: 4
Test: 0.91, Train: 0.85, Random State: 47
Test: 0.93, Train: 0.85, Random State: 47
Test: 0.93, Train: 0.84, Random State: 20
Test: 0.96, Train: 0.84, Random State: 20
Final Hodel Training Score: 0.81875
Final Hodel Training Score: 0.9025

Classification Report:

0 0.85 0.92 0.80 257
1 0.84 0.71 0.77 143

accaracy 0.85 400
macra eng 0.84 0.82 0.83 400
macra eng 0.85 0.85 0.88 400

```
[23] import numpy as op
from scipy state import f provay
from statemodels state multicome import pairwise_tukeyhad

# Community data

# Co
```

Heans: A-P.67, R-11.14, C-15.27
fr: 30.1214, Pr. 0.0000
Reject sull: Significant differences between treatments.
Tukny's HSD Results:
Hultiple Comparison of Heans - Tukey HSD, FMSE-0.05
group1 group2 meanliff p-adj lower upper reject

A B 1.4047 0.0077 -8.1083 3.0977 Felse
A C 5.5913 0.0 3.9909 7.2252 True
B C 4.1256 0.0 3.4940 5.7065 True

```
| Support numpy as np
import pandan as pd
from sklears.preprocessing import StandardScaler
# Commercial advanced
```

```
# Output
print("Original Outs:", plain_text.decode())
print("Decrypted Data:", clpher_text.decode())
print("Decrypted Data:", decrypted_text.decode())
```

Original Data: Bajalakohui Engineering College Encrypted Data: gAAAAABAPAJycIPfpLTvqHIstAxRAsSla-sPUSCrhiTlMcVRESucinVatsXUHBTnTVq2DiRvElyi4OgA3P4HIUh7zRodp-jrg0nQtJeriE2TZAxFXLiSFa-Decrypted Data: Bajalakohui Engineering College

```
Decrypted Data: Sajelakuhai Engionering College

[35] impert metplotlib.pyplot as cricket

Overs = list(remgn(% 31, 3))

Indian_Score = [38, 56, 98, 129, 185, 188, 239, 279, 218, 188]

Srilanham_Score = [25, 78, 90, 120, 188, 170, 185, 128, 259, 279]

cricket_plot(Overs, Indian_Score, color="green", label="heat")

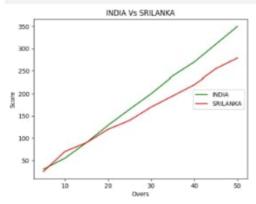
cricket_plot(Overs, Srilankan_Score, calor="red", label="heat")

cricket_tila("lovers")

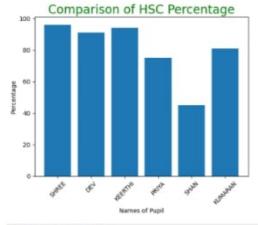
cricket_slot("overs")

cricket_lagand(lox-"center right")

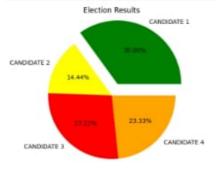
cricket_slow()
```



```
import material in pyplot as homer's import material import material import material import material import material import material importance in the impor
```



```
| import matplutlib.pyplot as election
| Lebels = ['CAMDIDATE 1', 'CAMDIDATE 2', 'CAMDIDATE 3', 'CAMDIDATE 4']
| Votes = [ISL, 180, 265, 285]
| culses = ['green', 'pellow', 'red', 'orange']
| explode = (0.2, 0, 0, 0)
| election.fit(Votes, inbels:labels, colors-colors, explode-explode, sutopt: 'NO.27%L')
| election.title('Election Results')
| election.show()
```



```
import with

from with.tokenize import word tokenize

from with.corpus import garteberg

with.downland("parks")

with.downland("parks")

with.downland("parks")

with.downland("parks")

token = word_tokenize(sample)

wilst = (tokenize(sample)

wilst = (tokenize(sample)

wirdfreq = |wilst.count(w) for w in wilst)

print("Fairston" + str(list(zip(wilst, wordfreq))))

[mith_deta] Downloading package gutenberg to
```