```
import numpy as np
import pandas as pd
import seaborn as sns
import os
import matplotlib.pyplot as plt
import sklearn
from sklearn.svm import SVC
from sklearn.metrics import balanced accuracy score, roc auc score,
accuracy score, confusion matrix, roc curve
from scipy.stats import zscore, pearsonr, uniform
from sklearn.linear model import Ridge
from sklearn.model selection import KFold, StratifiedKFold,
RandomizedSearchCV
from scipy.io import loadmat
from sklearn.model selection import train test split
from sklearn.preprocessing import StandardScaler
from sklearn.metrics import roc auc score
from sklearn.metrics import accuracy score
```

I have used the given database 4.1. The database Values or the actual table is been copied to another excel file and the following visulaistaionas are done on that file

```
#Data from 4.1 loaded
data = pd.read excel('4.1NEWW.xlsx')
data
                Item Description 2011-12 2012-13 2013-14 2014-15
2015-16 \
              Gross Value Added
                                  794894
                                                            875123
0
                                           810124
                                                   822848
921207
   consumption of fixed capital 98623
                                           102211
                                                   107181
                                                            111909
117267
2
                Net Value Added
                                  696271
                                           707913
                                                   715667
                                                            763214
803940
            central government*
                                  196076
                                           201181
                                                   203550
                                                            221388
225046
               state government
                                  385345
                                           390989
                                                   398809
                                                            417947
446450
                                            19058
5
                 Andhra Pradesh
                                   19150
                                                    20027
                                                             23056
28425
              Arunachal Pradesh
                                            2020
                                                     2201
                                                              2267
6
                                    1960
2500
                          Assam
                                   11815
                                            12045
                                                    13357
                                                             14166
16973
                                            21787
                          Bihar
                                   19967
                                                    22461
                                                             22472
23284
```

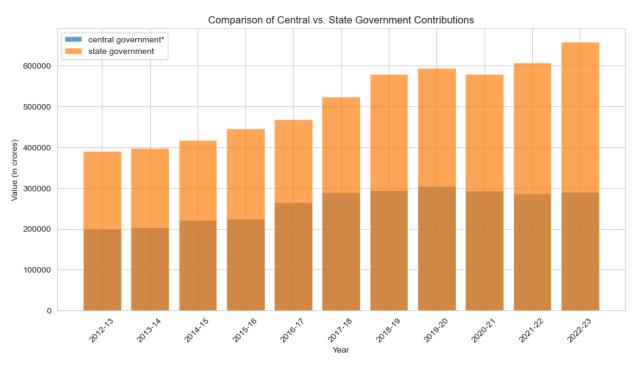
9	Chhattisgarh	8750	8756	8903	9194
9697 10	Delhi	6899	7052	6903	7508
7832	Dethi	0033	7032	0303	7500
11	Goa	1438	1483	1520	1601
1677 12	Gujarat	11366	11671	12081	12598
12971	dajarac	11500	11071	12001	12330
13	Haryana	12271	12917	12717	14657
15166 14	Himachal Pradesh	7633	8224	7784	8181
8418	IIIIIaciiat Frauesii	7033	0224	7704	0101
15	Jammu & Kashmir	12369	12253	12248	11643
13615	The alchend	10640	10012	0700	11041
16 9834	Jharkhand	10649	10012	9709	11041
17	Karnataka	10745	12313	13277	13826
13986		05077	25226	0.4570	25122
18 27004	Kerala	25277	25036	24573	25122
19	Madhya Pradesh	18096	19701	19361	19547
20116	•				
20 28994	Maharashtra	26355	27377	28558	27655
20994	Manipur	2647	2621	2739	2904
2793					
22	Meghalaya	1898	1769	1952	1947
1971 23	Mizoram	1713	1847	2009	2000
2063	112201 0	1,10	2017	2005	2000
24	Nagaland	2775	2930	3100	3120
3205 25	0disha	15680	15378	16156	16270
16341	outsna	15000	13370	10150	10270
26	Puducherry	1261	1337	1261	1384
1414 27	Punjab	16893	17289	16731	17925
18378	runjab	10033	17203	10751	17323
28	Rajasthan	18600	18783	19899	22609
24543 29	Sikkim	966	1003	1057	1196
1206	STKKTIII	900	1003	1037	1190
30	Tamilnadu	37918	35584	37184	39788
39984	Talangana	12067	12526	14220	16546
31 23341	Telangana	13867	13536	14320	16546
32	Tripura	2840	2717	2783	2533
3228	111.1 1.1	F 7 7 F	F.C.0.7	6020	7400
33	Uttarakhand	5775	5607	6829	7408

785	7								
34	70	Ut	tar Prade	sh 38	510 3	39825	387	00 3	9894
412	/3		Mark Dans	-1 10	262 1	10050	104	00 1	7000
35 183	61		West Beng	at 19	262 1	L9058	184	.09 1	.7889
36	01	1	ocal bodi	oc 75	343 7	75204	743	/Q 9	32560
869	ន្តត		ocat bour	.65 / 3	3 4 3 <i>I</i>	73204	743	40 0	12300
37		onomous i	nstitutio	ns 30	507	10539	389	60 4	1319
454		.0110111043			307	.0333	505		1313
	•								
	2016-17	2017-18	2018-19	2019-20	2020-2	21 2023	l-22	2022-2	23
0	998145	1094795	1171388	1222545	120174	17 1235	5990	131007	0
1	124093	131115	137992	145239	15314	11 160	9876	17128	88
2	874052	963680	1033396	1077306			5114	113878	
3	265516	289744	295104	305293			5830	29076	
4	469464	524478	579057	595104			7806	65891	
5	27573	30358	33630	34666			5230	3704	
6	2816	3453	3183	3427			3617	390	
7	17481	21886	20295	20693		-	3330	2700	
8	24575	27290	31627	30952			3026	3598	_
9	10290	11460	14848	17832			7086	1866	
10	9531	9953	10941	11825			2356	1354	
11	1763	2262	2309	2260			2388	305	
12 13	13050	16741	20513	18677			3893	2102	
14	16287 9157	18593 9941	18946 10495	20339 10940			9695 9820	2194 1377	
15	13260	13864	19272	19946			9993	2272	
16	9042	10573	12574	11751			2220	1307	
17	13868	14290	17929	19550			9318	2249	
18	30615	34605	32590	30808			1994	2771	
19	22192	22883	26125	27028			3054	3781	
20	29878	31042	32443	41624			1065	5006	
21	2844	2930	2882	3012			3526	450	
22	2154	2426	3022	3034			2971	317	
23	2216	2355	2546	3042		14 2	2482	272	
24	3190	3430	3890	4111	399	96 4	1265	443	34
25	16119	18781	20108	22362	2058	32 22	2902	2388	37
26	1519	1602	1807	1760	159	92 :	1680	178	
27	19002	20457	20262	19862		90 22	2338	2495	1
28	27431	32193	43169	40295			2859	4496	
29	1140	1174	1519	2206			2023	213	
30	41694	44289	52118	52224			5459	4943	
31	23691	25654	24029	21465			1435	1989	
32	3441	4222	4607	4759			1189	468	
33	8753	11031	10604	9763			1060	1128	
34	44904	54452	59411	62725			9029	6511	
35	19988	20288	21363	23056			7503	2611	
36	90605	98196	108842	115312			3916	12109	
37	48467	51262	50393	61597	6125)T 0(5562	6800	0

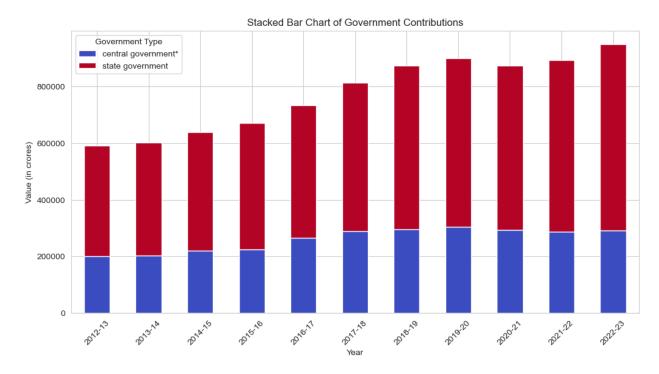
```
data.describe()
             2011-12
                             2012-13
                                            2013-14
                                                            2014-15 \
           38.000000
                           38.000000
                                          38.000000
                                                          38.000000
count
        70300.105263
                        71556.578947
                                       72636.105263
                                                       77142.289474
mean
       175575.704687
                       178731.582763
                                      181288.839693
                                                      192841.408559
std
min
          966.000000
                         1003.000000
                                        1057.000000
                                                        1196.000000
25%
         6056.000000
                         5968.250000
                                        6847.500000
                                                        7433.000000
                                       13838.500000
                                                       15463.500000
50%
        13118.000000
                        13226.500000
        26085.500000
                       26791.750000
                                       27561.750000
                                                       27021.750000
75%
       794894.000000
                      810124.000000
                                      822848.000000
                                                      875123.000000
max
             2015-16
                             2016-17
                                           2017 - 18
                                                          2018-19
2019-20
                           38.000000
                                      3.800000e+01
                                                    3.800000e+01
count
           38.000000
3.800000e+01
                       87889.631579 9.678284e+04
mean
        81389.578947
                                                     1.040850e+05
1.083553e+05
       203136.502306
                      220255.178391
                                      2.424031e+05
                                                     2.600297e+05
std
2.707933e+05
                         1140.000000 1.174000e+03
                                                     1.519000e+03
         1206.000000
min
1.760000e+03
         7838.250000
                         8825.250000
                                      9.944000e+03
                                                     1.052225e+04
25%
1.005725e+04
        16657.000000
                       16884.000000
                                      1.953450e+04
                                                    2.027850e+04
50%
2.051600e+04
                       30430.750000 3.400200e+04
                                                     4.078425e+04
75%
        28851.750000
4.129175e+04
       921207.000000
                      998145.000000
max
                                      1.094795e+06
                                                     1.171388e+06
1.222545e+06
            2020-21
                           2021-22
                                         2022-23
count
       3.800000e+01
                     3.800000e+01
                                    3.800000e+01
       1.061144e+05
                     1.093395e+05
                                    1.162589e+05
mean
std
       2.648951e+05
                     2.722782e+05
                                    2.889400e+05
       1.592000e+03
                     1.680000e+03
                                    1.787000e+03
min
25%
       1.044625e+04
                     1.088000e+04
                                    1.173300e+04
       2.037100e+04
                     2.188650e+04
                                    2.330550e+04
50%
       4.062450e+04
                     4.376350e+04
                                    4.831575e+04
75%
max
       1.201747e+06
                     1.235990e+06
                                    1.310070e+06
# Check dataset structure again
data.info()
# Display unique values in "Item Desription" to confirm category names
data["Item Desription"].unique()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 38 entries, 0 to 37
Data columns (total 13 columns):
                     Non-Null Count Dtype
    Column
     -----
0
    Item Desription 38 non-null
                                    obiect
                    38 non-null
1
                                    int64
    2011-12
 2
    2012-13
                    38 non-null
                                    int64
    2013-14
 3
                    38 non-null
                                    int64
 4
    2014-15
                    38 non-null
                                    int64
 5
    2015-16
                    38 non-null
                                    int64
 6
    2016-17
                    38 non-null
                                    int64
 7
    2017 - 18
                    38 non-null
                                    int64
 8
    2018-19
                    38 non-null
                                    int64
 9
    2019-20
                    38 non-null
                                    int64
10 2020-21
                    38 non-null
                                    int64
11 2021-22
                    38 non-null
                                    int64
 12 2022-23
                    38 non-null
                                    int64
dtypes: int64(12), object(1)
memory usage: 4.0+ KB
'Chhattisgarh', 'Delhi', 'Goa', 'Gujarat', 'Haryana',
       'Himachal Pradesh', 'Jammu & Kashmir', 'Jharkhand',
'Karnataka',
       'Kerala', 'Madhya Pradesh', 'Maharashtra', 'Manipur',
'Meghalaya',
       'Mizoram', 'Nagaland', 'Odisha', 'Puducherry', 'Punjab',
       'Rajasthan', 'Sikkim', 'Tamilnadu', 'Telangana', 'Tripura'
       'Uttarakhand', 'Uttar Pradesh', 'West Bengal', 'local bodies',
       'autonomous institutions'], dtype=object)
import pandas as pd
import matplotlib.pyplot as plt
# Load dataset
file path = "4.1NEWW.xlsx"
df = pd.read excel(file path, sheet name="Sheet1")
# Clean column names
df.columns = df.columns.str.strip()
df["Item Desription"] = df["Item Desription"].astype(str).str.strip()
# Select correct year range
years = df.columns[2:14] # Adjust as necessary
# Extract government-related data
gov metrics = ["central government*", "state government"]
```

```
df gov = df[df["Item Desription"].isin(gov metrics)]
# Debugging step: Check what data is extracted
print(df gov)
# Plot bar chart
plt.figure(figsize=(12, 6))
for index, row in df gov.iterrows():
    plt.bar(years, row[years], label=row["Item Description"],
alpha=0.7)
plt.xlabel("Year")
plt.ylabel("Value (in crores)")
plt.title("Comparison of Central vs. State Government Contributions")
plt.xticks(rotation=45)
plt.legend()
plt.show()
       Item Desription 2011-12 2012-13 2013-14 2014-15 2015-16
2016-17 \
   central government*
                         196076
                                   201181
                                            203550
                                                     221388
                                                              225046
265516
                                            398809
      state government
                         385345
                                   390989
                                                     417947
                                                              446450
469464
   2017 - 18
            2018-19
                     2019-20
                              2020-21
                                        2021-22
                                                 2022-23
3
    289744
             295104
                      305293
                                294045
                                         286830
                                                  290766
4
             579057
                      595104
    524478
                                580246
                                         607806
                                                  658918
```



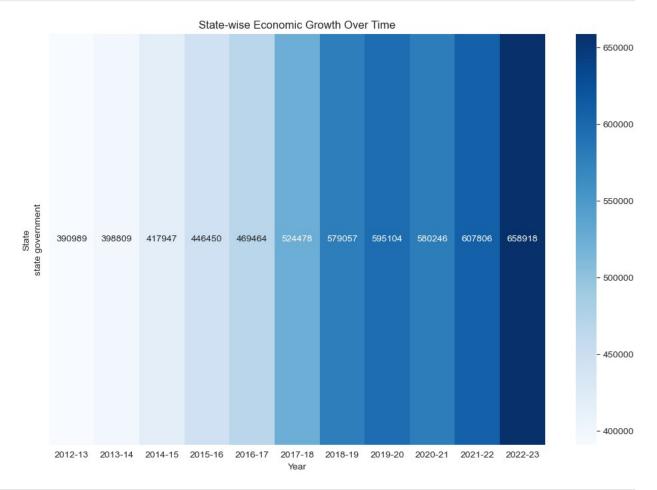
```
print(df.columns)
Index(['Item Desription', '2011-12', '2012-13', '2013-14', '2014-15',
       '2015-16', '2016-17', '2017-18', '2018-19', '2019-20', '2020-
21',
       '2021-22', '2022-23'],
      dtype='object')
import seaborn as sns
plt.show()
# --- 1. Government Contributions (Stacked Bar Chart) ---
plt.figure(figsize=(12, 6))
df gov.set index("Item Desription")[years].T.plot(kind="bar",
stacked=True, figsize=(12,6), colormap="coolwarm")
plt.xlabel("Year")
plt.ylabel("Value (in crores)")
plt.title("Stacked Bar Chart of Government Contributions")
plt.xticks(rotation=45)
plt.legend(title="Government Type")
plt.show()
<Figure size 1200x600 with 0 Axes>
```



--- 2. State-wise Economic Growth (Heatmap) --state_data = df[df["Item Desription"].str.contains("state",
case=False, na=False)][["Item Desription"] + list(years)]

```
state_data = state_data.set_index("Item Desription")

plt.figure(figsize=(12, 8))
sns.heatmap(state_data, cmap="Blues", annot=True, fmt=".0f")
plt.title("State-wise Economic Growth Over Time")
plt.xlabel("Year")
plt.ylabel("State")
plt.show()
```

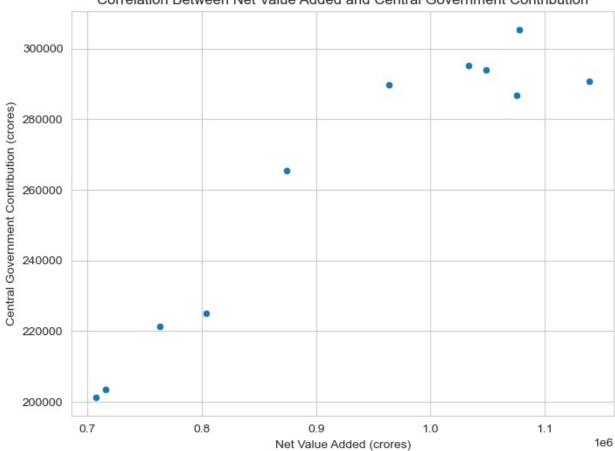


```
# Correlation Between Net Value Added and Government Contributions
(Scatter Plot) ---
net_value_added = df[df["Item Desription"] == "Net Value Added"]
[years].values.flatten()
central_gov = df[df["Item Desription"] == "central government*"]
[years].values.flatten()

plt.figure(figsize=(8, 6))
sns.scatterplot(x=net_value_added, y=central_gov)
plt.xlabel("Net Value Added (crores)")
plt.ylabel("Central Government Contribution (crores)")
```

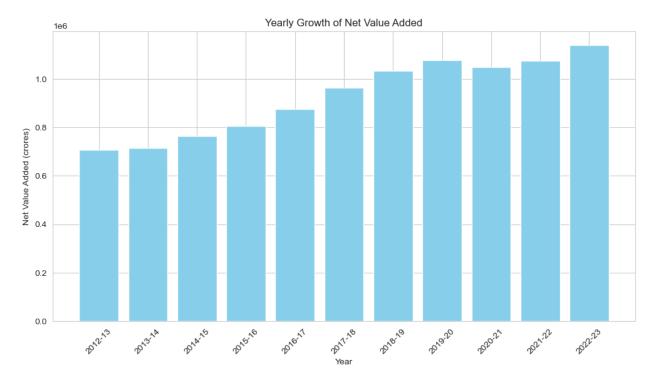
plt.title("Correlation Between Net Value Added and Central Government
Contribution")
plt.show()





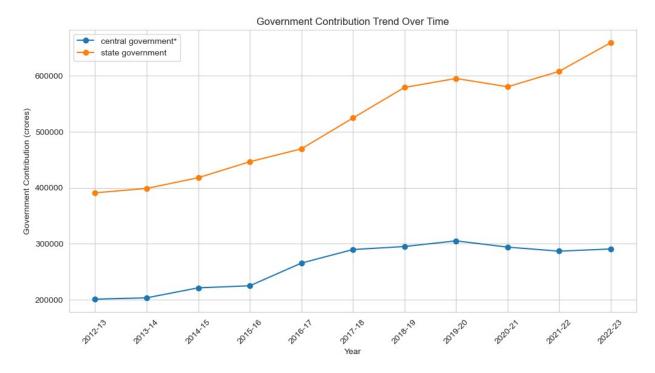
```
plt.figure(figsize=(12, 6))
net_value_added = df[df["Item Desription"] == "Net Value Added"]
[years].values.flatten()
plt.bar(years, net_value_added, color='skyblue')

plt.xlabel("Year")
plt.ylabel("Net Value Added (crores)")
plt.title("Yearly Growth of Net Value Added")
plt.xticks(rotation=45)
plt.show()
```



```
plt.figure(figsize=(12, 6))
for gov_type in ["central government*", "state government"]:
    gov_values = df[df["Item Desription"] == gov_type]
[years].values.flatten()
    plt.plot(years, gov_values, marker='o', label=gov_type)

plt.xlabel("Year")
plt.ylabel("Government Contribution (crores)")
plt.title("Government Contribution Trend Over Time")
plt.legend()
plt.xticks(rotation=45)
plt.show()
```



```
# Importing necessary libraries
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
# Setting display options for better readability
pd.set option('display.max_columns', None)
pd.set_option('display.width', None)
# Loading Data
# Load the expenditure data from 4.2NEWW.xlsx
try:
    expenditure data = pd.read_excel('4.2NEWW.xlsx',
sheet name='Sheet1')
    print("Expenditure Data loaded successfully.")
except FileNotFoundError:
    print("Error: Expenditure data file not found.")
    expenditure data = None
# Load the GVA data from 4.1NEWW.xlsx
try:
    gva data = pd.read excel('4.1NEWW.xlsx', sheet name='Sheet1')
    print("GVA Data loaded successfully.")
except FileNotFoundError:
    print("Error: GVA data file not found.")
    gva data = None
# Skip further processing if data loading failed
```

```
if expenditure data is None or gva data is None:
    print("Skipping further processing due to data loading failure.")
else:
    # Display the first few rows of each dataset
    print("Expenditure Data:")
    print(expenditure data.head())
    print("\nGVA Data:")
    print(gva_data.head())
    # Display column names to identify correct columns for GVA Data
    print("\nColumn Names in GVA Data:")
    print(gva data.columns)
    print("\nColumn Names in Expenditure Data:")
    print(expenditure data.columns)
    # Data Exploration
    # Summary statistics for expenditure data
    expenditure summary = expenditure data.describe()
    # Summary statistics for GVA data
    gva summary = gva data.describe()
    print("\nSummary Statistics for Expenditure Data:")
    print(expenditure summary)
    print("\nSummary Statistics for GVA Data:")
    print(gva summary)
    # Visualizations
    ## Plotting total expenditure over different categories
    if 'मद' in expenditure data.columns and 'कुल' in
expenditure data.columns:
        plt.figure(figsize=(12, 6))
        sns.barplot(x='मद', y='कुल', data=expenditure_data) #
Adjusted column name based on actual dataset structure
        plt.title('Total Expenditure by Category')
        plt.xlabel('Expenditure Categories')
        plt.ylabel('Total Expenditure')
        plt.xticks(rotation=45, ha='right')
        plt.tight_layout()
        plt.show()
    else:
        print("Error: Required columns for barplot not found in
expenditure data.")
    ## Plotting Gross Value Added over the years
    # Ensure correct column name by stripping any whitespace or
special characters
```

```
gva column name = 'सकल मूल्य वर्धन' # Replace with the correct column
name if needed
    # Ensure the column exists in the DataFrame
    if 'क्र. सं.' in gva data.columns and gva column name in
gva data.columns:
        plt.figure(figsize=(12, 6))
        sns.lineplot(data=gva data, x='क्र. सं.', y=gva column name) #
Adjusted based on actual column names in your file
        plt.title('Gross Value Added Over Years')
        plt.xlabel('Year')
        plt.ylabel('Gross Value Added')
        plt.xticks(rotation=45, ha='right')
        plt.tight_layout()
        plt.show()
    else:
        print(f"Error: Required columns for lineplot not found in GVA
data.")
    ## Additional Visualization: State-wise GVA Contribution (Example)
    # Correct and Robust Column Selection for State-wise GVA
Contribution
    state columns = ['आंध्र प्रदेश', 'गुजरात', 'महाराष्ट्र']
    available columns = [col for col in state columns if col in
gva data.columns]
    if 'क्र. सं.' in gva data.columns and available columns:
        statewise qva = qva data[['क्र. सं.'] + available columns] #
Select available state columns
        statewise gva.plot(x='क्र. सं.', figsize=(12, 6))
        plt.title('State-wise GVA Contribution Over Years')
        plt.xlabel('Year')
        plt.ylabel('Gross Value Added')
        plt.legend(title="States")
        plt.xticks(rotation=45, ha='right')
        plt.tight_layout()
        plt.show()
    else:
        print("Error: Required columns for state-wise GVA not found in
GVA data.")
    # Visualizations
    # 1. Box Plot of GVA across different years
    year columns = [col for col in gva data.columns if col.isdigit()
or '-' \overline{\text{in}} str(col)]
    if year columns:
        plt.figure(figsize=(14, 8))
```

```
sns.boxplot(data=qva data[year columns])
        plt.title('Distribution of GVA Across Different Years')
        plt.xlabel('Year')
        plt.ylabel('Gross Value Added')
        plt.xticks(rotation=45, ha='right')
        plt.tight_layout()
        plt.show()
    else:
        print("Error: No valid year columns found in GVA data.")
    # 2. Scatter Plot of expenditure
    sector cols = ['रक्षा', 'शिक्षा']
    available sector cols = [col for col in sector cols if col in
expenditure data.columns]
    if len(available sector cols) == 2: # Check if we have exactly
two columns
        plt.figure(figsize=(10, 6))
        sns.scatterplot(x=expenditure data[available sector cols[0]],
y=expenditure data[available sector cols[1]], data=expenditure data)
        plt.title(f'Scatter Plot of {available sector cols[0]} vs
{available sector cols[1]}')
        plt.xlabel(available sector cols[0])
        plt.ylabel(available sector cols[1])
        plt.tight layout()
        plt.show()
    else:
        print("Error: Exactly two valid columns needed for scatter
plot")
    # 3. Stacked Bar Chart expenditure data
    expenditure sector = ['सामान्य सार्वजिनक सेवाएं ', 'रक्षा ', 'शिक्षा ']
    available sector values = [col for col in expenditure sector if
col in expenditure data.columns]
    if len(available sector values) > 1:
        subset data = expenditure data[available sector values].sum()
        plt.figure(figsize=(10, 6))
        subset data.plot(kind='bar', stacked=True)
        plt.title('Expenditure by Sector')
        plt.xlabel('Sector')
        plt.ylabel('Expenditure')
        plt.xticks(rotation=45, ha='right')
        plt.tight layout()
        plt.show()
    else:
        print("Error: Need more then 1 values to draw a chart")
    # 4. Pairwise Relationship
    numeric expenditure data =
expenditure_data.select_dtypes(include=['number'])
```

```
numeric columns = numeric expenditure data.columns.tolist()
    columns_to_exclude = ['क्र.सं.', 'S.No.'] # Example column names.
    numeric columns = [col for col in numeric columns if col not in
columns to exclude]
    if len(numeric columns) >= 2:
        correlation matrix =
numeric expenditure data[numeric columns].corr()
        plt.figure(figsize=(12, 10)) # Adjust figure size for better
readability
        sns.heatmap(correlation matrix, annot=True, cmap='coolwarm',
fmt=".2f")
        plt.title('Correlation Heatmap of Expenditure Data')
        plt.tight layout()
        plt.show()
    else:
        print("Less than 2 columns for heatmap")
    # 5. Area Chart of expenditure data
    expenditure Area = ['सामान्य सार्वजिनक सेवाएं ', 'रक्षा ']
    available expenditure Area = [col for col in expenditure Area if
col in expenditure data.columns]
    if len(available expenditure Area) > 1:
        subset data = expenditure data[available expenditure Area]
        plt.figure(figsize=(10, 6))
        subset data.sum().plot(kind='area', stacked=True)
        plt.title('expenditure by sectors')
        plt.xlabel('sectors')
        plt.ylabel('expenditure')
        plt.xticks(rotation=45, ha='right')
        plt.tight layout()
        plt.show()
    else:
        print("Area chart not possible as columns are not present")
    # 6. Pie chart for top expenditure data
    Piechart data = ['रक्षा', 'शिक्षा', 'स्वास्थ्य']
    available data = [col for col in Piechart data if col in
expenditure data.columns]
    if len(available data) >= 2:
        # Extract the data
        data to plot = expenditure data[available data].sum()
        # Create the plot
        plt.figure(figsize=(8, 8))
        plt.pie(data to plot, labels=available data, autopct='%1.1f%
%', startangle=140)
        plt.title('Distribution by expenditure')
        plt.tight layout()
```

```
plt.show()
    else:
        print("Not enough values for a pie chart")
    # 7. Horizontal Bar Chart of Expenditure Data
    expenditure categories = ['सामान्य सार्वजिनक सेवाएं ', 'रक्षा ', 'शिक्षा ', 'स्वास
थ्य ' ]
    available categories = [col for col in expenditure categories if
col in expenditure data.columns]
    if available categories:
        expenditure subset =
expenditure data[available categories].sum()
        plt.figure(figsize=(10, 6))
        expenditure_subset.plot(kind='barh')
        plt.title('Horizontal Bar Chart of Expenditure Categories')
        plt.xlabel('Total Expenditure')
        plt.ylabel('Expenditure Category')
        plt.tight layout()
        plt.show()
    else:
        print("Error: No available categories for horizontal bar
chart.")
Expenditure Data loaded successfully.
GVA Data loaded successfully.
Expenditure Data:
                                  मद सामान्य सार्वजिनक सेवाएं
  क्र.सं.
                                                           रक्षा \
0
      NaN
                                    NaN
                                                                  NaN
NaN
                                                                  3.0
1
4.0
2
                          पुंजीतर व्यय
                                               785120.0 472076.0
        1
                           उपभोग व्यय
3
      1.1
                                                 266383.0 470465.0
    1.1.1 कर्मचारियों का पारिश्रमिक
                                           191688.0 380607.0
   सार्वजनिक व्यवस्था और सरक्षा आर्थिक कार्य 🛝
0
                                NaN
                                                 NaN
1
                                5.0
                                                 6.0
2
                                          1502064.0
                           411594.0
3
                           406042.0
                                           154101.0
4
                           386089.0
                                           120922.0
          सामान्य प्रशासन, विनियमन और अनुसंधान \
   general administration, regulation & research
1
                                                 6.1
2
                                               48074
3
                                               19339
4
                                               14628
```

```
कृषि, वानिकी और मत्स्यन खनन, विनिर्माण और निर्माण \
O agriculture, forestry & fishing mining, manufacturing &
construction
                                   6.2
1
6.3
                               481231
273871
                                68912
12929
                                50393
9297
                      बिजली, गैस, भांप और अन्य स्रोत जलापूर्ति \
   electricity, gas, steam and other sources of energy
                                                            water supply
1
                                                       6.4
                                                                       6.5
2
                                                                    36061
                                                   211764
3
                                                                    24403
                                                      5782
4
                                                      5776
                                                                    12774
               परिवहन और संचार अन्य आर्थिक सेवाएं पर्यावरण संरक्षण \
O transport and communication other economic services
NaN
1
                              6.6
                                                          6.7
7.0
                                                       328229
                           122833
3002.0
                            10503
                                                        12233
418.0
                            18056
                                                         9998
228.0
   हाउसिंग और सामुदायिक सुविधाएं स्वास्थ्य \
0
                                                  NaN
                                  NaN
1
                                  8.0
                                                  9.0
2
                                             326305.0
                            329295.0
3
                             51735.0
                                             215052.0
                             40914.0
                                             168311.0
            प्रशासन, विनियमन और अनुसंधान स्वास्थ्य सेवाएं
   administration, regulation & research
                                                   health services
1
                                         9.1
                                                                 9.2
2
                                       61236
                                                              265068
3
                                       36173
                                                              178879
4
                                       24240
                                                              144071
   मनोरंजन, संस्कृति और धर्म
                           शिक्षा \
0
                              NaN
                                          NaN
1
                             10.0
                                         11.0
2
                          34010.0
                                   1099804.0
```

```
3
                       16916.0
                                 596945.0
4
                        7989.0
                                 537324.0
             प्रशासन, विनियमन और अनुसंधान शिक्षा संबंधी सेवाएं \
                    regulation & research educational services
   administration,
                                     11.1
1
                                                           11.2
2
                                    60778
                                                        1039026
3
                                    29198
                                                         567747
4
                                    26412
                                                         510912
   सामाजिक संरक्षण
                                    item S.No.
                   कुल
                NaN
                           NaN
                                                      NaN
                                                             NaN
1
               12.0
                          13.0
2
           493591.0 5456860.0
                                      Current expenditure
                                                               1
3
           117930.0 2295988.0
                                 consumption Expenditure
                                                             1.1
                                compensation of Employees
4
            40513.0 1874584.0
GVA Data:
                Item Desription 2011-12 2012-13 2013-14 2014-15
2015-16 \
              Gross Value Added 794894
                                           810124 822848
                                                             875123
0
921207
   consumption of fixed capital
                                   98623
                                           102211
                                                    107181
                                                             111909
117267
                Net Value Added
                                  696271
                                           707913
                                                    715667
                                                             763214
803940
            central government*
                                  196076
                                           201181
                                                    203550
3
                                                             221388
225046
                                           390989
                                                    398809
                                                             417947
               state government
                                  385345
446450
   2016-17 2017-18 2018-19 2019-20 2020-21
                                                2021-22 2022-23
    998145 1094795
                     1171388 1222545 1201747
0
                                                1235990 1310070
    124093 131115
                     137992 145239
                                      153141
1
                                                160876
                                                         171288
2
    874052
             963680 1033396 1077306 1048606 1075114 1138782
3
    265516
             289744
                      295104
                               305293
                                        294045
                                                 286830
                                                          290766
    469464
           524478
                     579057
                               595104
                                        580246
                                                 607806
                                                          658918
Column Names in GVA Data:
Index(['Item Desription', '2011-12', '2012-13', '2013-14', '2014-15',
       '2015-16', '2016-17', '2017-18', '2018-19', '2019-20', '2020-
21',
       '2021-22', '2022-23'],
      dtype='object')
Column Names in Expenditure Data:
Index(['क्र.सं.', 'मद', 'सामान्य सार्वजिनक सेवाएं ', 'रक्षा ',
       'सार्वजनिक व्यवस्था और सुरक्षा ', 'आर्थिक कार्य '
       'सामान्य प्रशासन, विनियमन और अनुसंधान ', 'कृषि, वानिकी और मत्स्यन ',
```

```
'खनन, विनिर्माण और निर्माण ', 'बिजली, गैस, भांप और अन्य स्रोत ',
        'जलापूर्ति ', 'परिवहन और संचार ', 'अन्य आर्थिक सेवाएं ',
        'पर्यावरण संरक्षण ', 'हाउसिंग और सामुदायिक सुविधाएं ', 'स्वास्थ्य ',
        'प्रशासन, विनियमन और अनुसंधान ', 'स्वास्थ्य सेवाएं ',
        'मनोरंजन, संस्कृति और धर्म ', 'शिक्षा ',
        'प्रशासन, विनियमन और अनुसंधान', 'शिक्षा संबंधी सेवाएं',
        'सामाजिक संरक्षण ', 'कुल ', 'item', 'S.No.'],
      dtype='object')
Summary Statistics for Expenditure Data:
        सामान्य सार्वजिनक सेवाएं
count
                       2.400000e+01
                                            24.000000
                       1.857152e+05 143865.166667
mean
                       2.623540e+05 209592.091943
std
min
                       0.000000e+00
                                             0.000000
25%
                       1.071025e+04
                                             1.000000
50%
                       8.299400e+04
                                         1706.500000
75%
                       2.663830e+05 210634.500000
                       1.013362e+06 629863.000000
max
       सार्वजनिक व्यवस्था और सुरक्षा आर्थिक कार्य पर्यावरण संरक्षण \
                               24.000000
                                             2.400000e+01
count
24.000000
                           107034.958333 3.514173e+05
mean
967.583333
                           178591.831783 5.640460e+05
std
1409.394255
                                0.000000
                                             0.000000e+00
min
0.000000
25%
                              208.250000
                                             6.045225e+04
133.500000
50%
                             3643.500000 1.541010e+05
236.500000
                           117009.250000 3.419295e+05
75%
2038.500000
                           439282.000000 2.431379e+06
5651.000000
       हाउसिंग और साम्दायिक स्विधाएं स्वास्थ्य \
                               24.000000
                                                24.000000
count
mean
                           115046.833333
                                             79626.125000
                           157419.339771
                                            109295.571034
std
min
                                0.000000
                                                 0.000000
25%
                            14042.250000
                                               624.750000
50%
                            51735.000000
                                            34635.500000
                           167956.500000
75%
                                            125517.500000
                           680662.000000
                                           370386.000000
max
       मनोरंजन, संस्कृति और धर्म शिक्षा सामाजिक संरक्षण \
```

count mean std min 25% 50% 75% max		24.000000 9290.083333 11815.862216 0.000000 70.000000 5441.500000 14003.750000 48023.000000	2.400000e+01 2.503275e+05 3.570640e+05 0.000000e+00 1.888000e+03 6.668050e+04 5.100045e+05 1.204454e+06	24.000000 97453.833333 155777.764852 0.000000 2444.000000 31550.500000 104405.250000 536615.000000	
count mean std min 25% 50% 75% max	कुल 2.400000e+01 1.340742e+06 1.748343e+06 1.300000e+01 2.626205e+05 8.562945e+05 1.698378e+06 7.359677e+06				
count mean std min 25% 50% 75% max	y Statistics fo 2011-12 38.000000 70300.105263 175575.704687 966.000000 6056.000000 13118.000000 26085.500000 794894.000000	r GVA Data:	2013-14 38.000000 72636.105263 181288.839693 1057.000000 6847.500000 13838.500000 27561.750000 822848.000000	2014-15 38.000000 77142.289474 192841.408559 1196.000000 7433.000000 15463.500000 27021.750000 875123.000000	\
2010 2	2015-16	2016-17	2017-18	2018-19	
2019-2 count	38.000000	38.000000	3.800000e+01	3.800000e+01	
3.8000 mean	81389.578947	87889.631579	9.678284e+04	1.040850e+05	
1.0835 std	203136.502306	220255.178391	2.424031e+05	2.600297e+05	
2.7079 min	1206.000000	1140.000000	1.174000e+03	1.519000e+03	
	7838.250000	8825.250000	9.944000e+03	1.052225e+04	
1.005725e+04 50% 16657.000000 16884.000000 1.953450e+04 2.027850e+04 2.051600e+04					
75%	28851.750000	3.400200e+04	4.078425e+04		
4.1291 max 1.2225	921207.000000	998145.000000	1.094795e+06	1.171388e+06	
	2020-21	2021-22	2022-23		

```
count 3.800000e+01
                     3.800000e+01 3.800000e+01
mean
      1.061144e+05
                     1.093395e+05
                                  1.162589e+05
std
       2.648951e+05
                     2.722782e+05 2.889400e+05
                     1.680000e+03
       1.592000e+03
                                  1.787000e+03
min
25%
       1.044625e+04
                     1.088000e+04
                                  1.173300e+04
50%
       2.037100e+04
                     2.188650e+04 2.330550e+04
75%
      4.062450e+04
                     4.376350e+04 4.831575e+04
       1.201747e+06
                     1.235990e+06 1.310070e+06
max
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2346 (\N{DEVANAGARI LETTER PA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Matplotlib currently does not support Devanagari
natively.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2370 (\N{DEVANAGARI VOWEL SIGN UU}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2306 (\N{DEVANAGARI SIGN ANUSVARA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2332 (\N{DEVANAGARI LETTER JA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2368 (\N{DEVANAGARI VOWEL SIGN II}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2340 (\N{DEVANAGARI LETTER TA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2352 (\N{DEVANAGARI LETTER RA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2357 (\N{DEVANAGARI LETTER VA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2381 (\N{DEVANAGARI SIGN VIRAMA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
```

```
UserWarning: Glyph 2351 (\N{DEVANAGARI LETTER YA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2313 (\N{DEVANAGARI LETTER U}) missing from current
font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2349 (\N{DEVANAGARI LETTER BHA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2379 (\N{DEVANAGARI VOWEL SIGN 0}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2327 (\N{DEVANAGARI LETTER GA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2325 (\N{DEVANAGARI LETTER KA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2350 (\N{DEVANAGARI LETTER MA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2330 (\N{DEVANAGARI LETTER CA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2366 (\N{DEVANAGARI VOWEL SIGN AA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2367 (\N{DEVANAGARI VOWEL SIGN I}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2358 (\N{DEVANAGARI LETTER SHA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2360 (\N{DEVANAGARI LETTER SA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2369 (\N{DEVANAGARI VOWEL SIGN U}) missing from
```

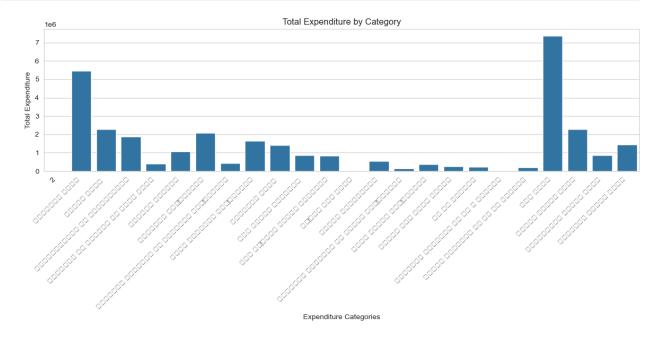
```
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2323 (\N{DEVANAGARI LETTER 0}) missing from current
font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2324 (\N{DEVANAGARI LETTER AU}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2375 (\N{DEVANAGARI VOWEL SIGN E}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2344 (\N{DEVANAGARI LETTER NA}) missing from
current font.
  plt.tight_layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2354 (\N{DEVANAGARI LETTER LA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2310 (\N{DEVANAGARI LETTER AA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2341 (\N{DEVANAGARI LETTER THA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2361 (\N{DEVANAGARI LETTER HA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2339 (\N{DEVANAGARI LETTER NNA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2309 (\N{DEVANAGARI LETTER A}) missing from current
font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2335 (\N{DEVANAGARI LETTER TTA}) missing from
current font.
  plt.tight_layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2377 (\N{DEVANAGARI VOWEL SIGN CANDRA 0}) missing
from current font.
```

```
plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2315 (\N{DEVANAGARI LETTER VOCALIC R}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2328 (\N{DEVANAGARI LETTER GHA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:67:
UserWarning: Glyph 2359 (\N{DEVANAGARI LETTER SSA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2346 (\N{DEVANAGARI LETTER PA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Matplotlib currently does not support
Devanagari natively.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2370 (\N{DEVANAGARI VOWEL SIGN
UU}) missing from current font.
  fig.canvas.print_figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2306 (\N{DEVANAGARI SIGN
ANUSVARA)) missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2332 (\N{DEVANAGARI LETTER JA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2368 (\N{DEVANAGARI VOWEL SIGN
II}) missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2340 (\N{DEVANAGARI LETTER TA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2352 (\N{DEVANAGARI LETTER RA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2357 (\N{DEVANAGARI LETTER VA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
```

```
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2381 (\N{DEVANAGARI SIGN
VIRAMA}) missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2351 (\N{DEVANAGARI LETTER YA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2313 (\N{DEVANAGARI LETTER U})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2349 (\N{DEVANAGARI LETTER BHA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2379 (\N{DEVANAGARI VOWEL SIGN
0}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2327 (\N{DEVANAGARI LETTER GA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2325 (\N{DEVANAGARI LETTER KA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2350 (\N{DEVANAGARI LETTER MA})
missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2330 (\N{DEVANAGARI LETTER CA})
missing from current font.
  fig.canvas.print_figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2366 (\N{DEVANAGARI VOWEL SIGN
AA}) missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2367 (\N{DEVANAGARI VOWEL SIGN
I}) missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2358 (\N{DEVANAGARI LETTER SHA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
```

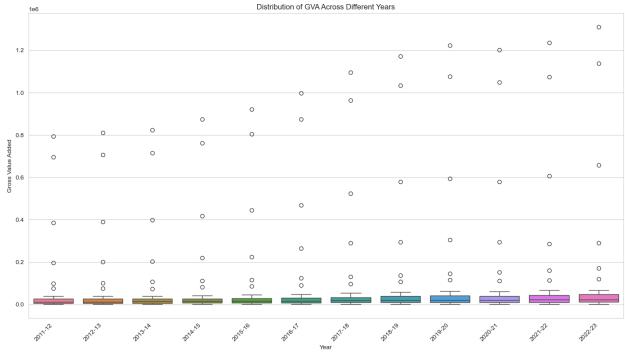
```
pylabtools.py:170: UserWarning: Glyph 2360 (\N{DEVANAGARI LETTER SA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2369 (\N{DEVANAGARI VOWEL SIGN
U}) missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2323 (\N{DEVANAGARI LETTER 0})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2324 (\N{DEVANAGARI LETTER AU})
missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2375 (\N{DEVANAGARI VOWEL SIGN
E}) missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2344 (\N{DEVANAGARI LETTER NA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2354 (\N{DEVANAGARI LETTER LA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2310 (\N{DEVANAGARI LETTER AA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2341 (\N{DEVANAGARI LETTER THA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2361 (\N{DEVANAGARI LETTER HA})
missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2339 (\N{DEVANAGARI LETTER NNA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2309 (\N{DEVANAGARI LETTER A})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2335 (\N{DEVANAGARI LETTER TTA})
```

missing from current font. fig.canvas.print figure(bytes io, **kw) C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\ pylabtools.py:170: UserWarning: Glyph 2377 (\N{DEVANAGARI VOWEL SIGN CANDRA 0}) missing from current font. fig.canvas.print_figure(bytes_io, **kw) C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\ pylabtools.py:170: UserWarning: Glyph 2315 (\N{DEVANAGARI LETTER VOCALIC R}) missing from current font. fig.canvas.print figure(bytes io, **kw) C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\ pylabtools.py:170: UserWarning: Glyph 2328 (\N{DEVANAGARI LETTER GHA}) missing from current font. fig.canvas.print figure(bytes io, **kw) C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\ pylabtools.py:170: UserWarning: Glyph 2359 (\N{DEVANAGARI LETTER SSA}) missing from current font. fig.canvas.print_figure(bytes_io, **kw)



Error: Required columns for lineplot not found in GVA data.

Error: Required columns for state-wise GVA not found in GVA data.

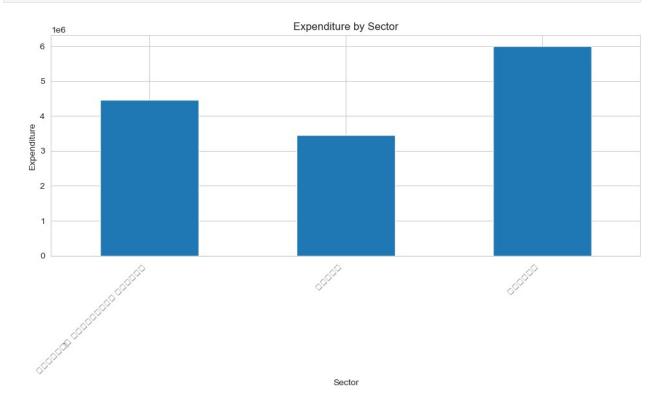


```
Error: Exactly two valid columns needed for scatter plot
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:149:
UserWarning: Glyph 2360 (\N{DEVANAGARI LETTER SA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:149:
UserWarning: Matplotlib currently does not support Devanagari
natively.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:149:
UserWarning: Glyph 2366 (\N{DEVANAGARI VOWEL SIGN AA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:149:
UserWarning: Glyph 2350 (\N{DEVANAGARI LETTER MA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:149:
UserWarning: Glyph 2344 (\N{DEVANAGARI LETTER NA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:149:
UserWarning: Glyph 2381 (\N{DEVANAGARI SIGN VIRAMA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:149:
UserWarning: Glyph 2351 (\N{DEVANAGARI LETTER YA}) missing from
```

```
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:149:
UserWarning: Glyph 2352 (\N{DEVANAGARI LETTER RA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:149:
UserWarning: Glyph 2357 (\N{DEVANAGARI LETTER VA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:149:
UserWarning: Glyph 2332 (\N{DEVANAGARI LETTER JA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:149:
UserWarning: Glyph 2367 (\N{DEVANAGARI VOWEL SIGN I}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:149:
UserWarning: Glyph 2325 (\N{DEVANAGARI LETTER KA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:149:
UserWarning: Glyph 2375 (\N{DEVANAGARI VOWEL SIGN E}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:149:
UserWarning: Glyph 2319 (\N{DEVANAGARI LETTER E}) missing from current
font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:149:
UserWarning: Glyph 2306 (\N{DEVANAGARI SIGN ANUSVARA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:149:
UserWarning: Glyph 2359 (\N{DEVANAGARI LETTER SSA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:149:
UserWarning: Glyph 2358 (\N{DEVANAGARI LETTER SHA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2360 (\N{DEVANAGARI LETTER SA})
missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Matplotlib currently does not support
Devanagari natively.
```

```
fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2366 (\N{DEVANAGARI VOWEL SIGN
AA}) missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2350 (\N{DEVANAGARI LETTER MA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2344 (\N{DEVANAGARI LETTER NA})
missing from current font.
  fig.canvas.print_figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2381 (\N{DEVANAGARI SIGN
VIRAMA}) missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2351 (\N{DEVANAGARI LETTER YA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2352 (\N{DEVANAGARI LETTER RA})
missing from current font.
  fig.canvas.print_figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2357 (\N{DEVANAGARI LETTER VA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2332 (\N{DEVANAGARI LETTER JA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2367 (\N{DEVANAGARI VOWEL SIGN
I)) missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2325 (\N{DEVANAGARI LETTER KA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2375 (\N{DEVANAGARI VOWEL SIGN
E}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2319 (\N{DEVANAGARI LETTER E})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
```

```
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2306 (\N{DEVANAGARI SIGN
ANUSVARA}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2359 (\N{DEVANAGARI LETTER SSA})
missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2358 (\N{DEVANAGARI LETTER SHA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
```



C:\Users\SushilSC\anaconda3\Lib\site-packages\seaborn\utils.py:61:
UserWarning: Glyph 2360 (\N{DEVANAGARI LETTER SA}) missing from
current font.
 fig.canvas.draw()
C:\Users\SushilSC\anaconda3\Lib\site-packages\seaborn\utils.py:61:
UserWarning: Matplotlib currently does not support Devanagari
natively.
 fig.canvas.draw()
C:\Users\SushilSC\anaconda3\Lib\site-packages\seaborn\utils.py:61:
UserWarning: Glyph 2366 (\N{DEVANAGARI VOWEL SIGN AA}) missing from
current font.
 fig.canvas.draw()
C:\Users\SushilSC\anaconda3\Lib\site-packages\seaborn\utils.py:61:

```
UserWarning: Glyph 2350 (\N{DEVANAGARI LETTER MA}) missing from
current font.
  fig.canvas.draw()
C:\Users\SushilSC\anaconda3\Lib\site-packages\seaborn\utils.py:61:
UserWarning: Glyph 2344 (\N{DEVANAGARI LETTER NA}) missing from
current font.
  fig.canvas.draw()
C:\Users\SushilSC\anaconda3\Lib\site-packages\seaborn\utils.py:61:
UserWarning: Glyph 2381 (\N{DEVANAGARI SIGN VIRAMA}) missing from
current font.
  fig.canvas.draw()
C:\Users\SushilSC\anaconda3\Lib\site-packages\seaborn\utils.py:61:
UserWarning: Glyph 2351 (\N{DEVANAGARI LETTER YA}) missing from
current font.
  fig.canvas.draw()
C:\Users\SushilSC\anaconda3\Lib\site-packages\seaborn\utils.py:61:
UserWarning: Glyph 2352 (\N{DEVANAGARI LETTER RA}) missing from
current font.
  fig.canvas.draw()
C:\Users\SushilSC\anaconda3\Lib\site-packages\seaborn\utils.py:61:
UserWarning: Glyph 2357 (\N{DEVANAGARI LETTER VA}) missing from
current font.
  fig.canvas.draw()
C:\Users\SushilSC\anaconda3\Lib\site-packages\seaborn\utils.py:61:
UserWarning: Glyph 2332 (\N{DEVANAGARI LETTER JA}) missing from
current font.
  fig.canvas.draw()
C:\Users\SushilSC\anaconda3\Lib\site-packages\seaborn\utils.py:61:
UserWarning: Glyph 2367 (\N{DEVANAGARI VOWEL SIGN I}) missing from
current font.
  fig.canvas.draw()
C:\Users\SushilSC\anaconda3\Lib\site-packages\seaborn\utils.py:61:
UserWarning: Glyph 2325 (\N{DEVANAGARI LETTER KA}) missing from
current font.
  fig.canvas.draw()
C:\Users\SushilSC\anaconda3\Lib\site-packages\seaborn\utils.py:61:
UserWarning: Glyph 2375 (\N{DEVANAGARI VOWEL SIGN E}) missing from
current font.
  fig.canvas.draw()
C:\Users\SushilSC\anaconda3\Lib\site-packages\seaborn\utils.py:61:
UserWarning: Glyph 2319 (\N{DEVANAGARI LETTER E}) missing from current
font.
  fig.canvas.draw()
C:\Users\SushilSC\anaconda3\Lib\site-packages\seaborn\utils.py:61:
UserWarning: Glyph 2306 (\N{DEVANAGARI SIGN ANUSVARA}) missing from
current font.
  fig.canvas.draw()
C:\Users\SushilSC\anaconda3\Lib\site-packages\seaborn\utils.py:61:
UserWarning: Glyph 2359 (\N{DEVANAGARI LETTER SSA}) missing from
```

```
current font.
  fig.canvas.draw()
C:\Users\SushilSC\anaconda3\Lib\site-packages\seaborn\utils.py:61:
UserWarning: Glyph 2341 (\N{DEVANAGARI LETTER THA}) missing from
current font.
  fig.canvas.draw()
C:\Users\SushilSC\anaconda3\Lib\site-packages\seaborn\utils.py:61:
UserWarning: Glyph 2324 (\N{DEVANAGARI LETTER AU}) missing from
current font.
  fig.canvas.draw()
C:\Users\SushilSC\anaconda3\Lib\site-packages\seaborn\utils.py:61:
UserWarning: Glyph 2369 (\N{DEVANAGARI VOWEL SIGN U}) missing from
current font.
  fig.canvas.draw()
C:\Users\SushilSC\anaconda3\Lib\site-packages\seaborn\utils.py:61:
UserWarning: Glyph 2310 (\N{DEVANAGARI LETTER AA}) missing from
current font.
  fig.canvas.draw()
C:\Users\SushilSC\anaconda3\Lib\site-packages\seaborn\utils.py:61:
UserWarning: Glyph 2346 (\N{DEVANAGARI LETTER PA}) missing from
current font.
  fig.canvas.draw()
C:\Users\SushilSC\anaconda3\Lib\site-packages\seaborn\utils.py:61:
UserWarning: Glyph 2339 (\N{DEVANAGARI LETTER NNA}) missing from
current font.
  fig.canvas.draw()
C:\Users\SushilSC\anaconda3\Lib\site-packages\seaborn\utils.py:61:
UserWarning: Glyph 2361 (\N{DEVANAGARI LETTER HA}) missing from
current font.
  fig.canvas.draw()
C:\Users\SushilSC\anaconda3\Lib\site-packages\seaborn\utils.py:61:
UserWarning: Glyph 2313 (\N{DEVANAGARI LETTER U}) missing from current
font.
  fig.canvas.draw()
C:\Users\SushilSC\anaconda3\Lib\site-packages\seaborn\utils.py:61:
UserWarning: Glyph 2327 (\N{DEVANAGARI LETTER GA}) missing from
current font.
  fig.canvas.draw()
C:\Users\SushilSC\anaconda3\Lib\site-packages\seaborn\utils.py:61:
UserWarning: Glyph 2342 (\N{DEVANAGARI LETTER DA}) missing from
current font.
  fig.canvas.draw()
C:\Users\SushilSC\anaconda3\Lib\site-packages\seaborn\utils.py:61:
UserWarning: Glyph 2343 (\N{DEVANAGARI LETTER DHA}) missing from
current font.
  fig.canvas.draw()
C:\Users\SushilSC\anaconda3\Lib\site-packages\seaborn\utils.py:61:
UserWarning: Glyph 2379 (\N{DEVANAGARI VOWEL SIGN 0}) missing from
current font.
```

```
fig.canvas.draw()
C:\Users\SushilSC\anaconda3\Lib\site-packages\seaborn\utils.py:61:
UserWarning: Glyph 2371 (\N{DEVANAGARI VOWEL SIGN VOCALIC R}) missing
from current font.
  fig.canvas.draw()
C:\Users\SushilSC\anaconda3\Lib\site-packages\seaborn\utils.py:61:
UserWarning: Glyph 2340 (\N{DEVANAGARI LETTER TA}) missing from
current font.
  fig.canvas.draw()
C:\Users\SushilSC\anaconda3\Lib\site-packages\seaborn\utils.py:61:
UserWarning: Glyph 2358 (\N{DEVANAGARI LETTER SHA}) missing from
current font.
  fig.canvas.draw()
C:\Users\SushilSC\anaconda3\Lib\site-packages\seaborn\utils.py:61:
UserWarning: Glyph 2354 (\N{DEVANAGARI LETTER LA}) missing from
current font.
  fig.canvas.draw()
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2360 (\N{DEVANAGARI LETTER SA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Matplotlib currently does not support
Devanagari natively.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2366 (\N{DEVANAGARI VOWEL SIGN
AA}) missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2350 (\N{DEVANAGARI LETTER MA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2344 (\N{DEVANAGARI LETTER NA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2381 (\N{DEVANAGARI SIGN
VIRAMA}) missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2351 (\N{DEVANAGARI LETTER YA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2352 (\N{DEVANAGARI LETTER RA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
```

```
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2357 (\N{DEVANAGARI LETTER VA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2332 (\N{DEVANAGARI LETTER JA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2367 (\N{DEVANAGARI VOWEL SIGN
I)) missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2325 (\N{DEVANAGARI LETTER KA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2375 (\N{DEVANAGARI VOWEL SIGN
E}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2319 (\N{DEVANAGARI LETTER E})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2306 (\N{DEVANAGARI SIGN
ANUSVARA}) missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2359 (\N{DEVANAGARI LETTER SSA})
missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2341 (\N{DEVANAGARI LETTER THA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2324 (\N{DEVANAGARI LETTER AU})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2369 (\N{DEVANAGARI VOWEL SIGN
U}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2310 (\N{DEVANAGARI LETTER AA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
```

```
pylabtools.py:170: UserWarning: Glyph 2346 (\N{DEVANAGARI LETTER PA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2339 (\N{DEVANAGARI LETTER NNA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2361 (\N{DEVANAGARI LETTER HA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2313 (\N{DEVANAGARI LETTER U})
missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2327 (\N{DEVANAGARI LETTER GA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2342 (\N{DEVANAGARI LETTER DA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2343 (\N{DEVANAGARI LETTER DHA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2379 (\N{DEVANAGARI VOWEL SIGN
0}) missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2371 (\N{DEVANAGARI VOWEL SIGN
VOCALIC R}) missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2340 (\N{DEVANAGARI LETTER TA})
missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2358 (\N{DEVANAGARI LETTER SHA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2354 (\N{DEVANAGARI LETTER LA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
```



C:\Users\SushilSC\AppData\Local\Temp\ipykernel_32556\994452854.py:181:
UserWarning: Glyph 2360 (\N{DEVANAGARI LETTER SA}) missing from
current font.
 plt.tight layout()

C:\Users\SushilSC\AppData\Local\Temp\ipykernel_32556\994452854.py:181: UserWarning: Matplotlib currently does not support Devanagari natively.

plt.tight layout()

C:\Users\SushilSC\AppData\Local\Temp\ipykernel_32556\994452854.py:181: UserWarning: Glyph 2366 (\N{DEVANAGARI VOWEL SIGN AA}) missing from current font.

plt.tight layout()

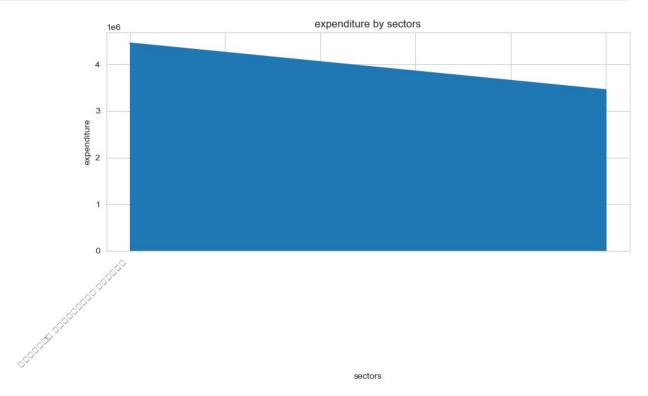
C:\Users\SushilSC\AppData\Local\Temp\ipykernel_32556\994452854.py:181:
UserWarning: Glyph 2350 (\N{DEVANAGARI LETTER MA}) missing from
current font.

plt.tight layout()

```
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:181:
UserWarning: Glyph 2344 (\N{DEVANAGARI LETTER NA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:181:
UserWarning: Glyph 2381 (\N{DEVANAGARI SIGN VIRAMA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:181:
UserWarning: Glyph 2351 (\N{DEVANAGARI LETTER YA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:181:
UserWarning: Glyph 2352 (\N{DEVANAGARI LETTER RA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:181:
UserWarning: Glyph 2357 (\N{DEVANAGARI LETTER VA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:181:
UserWarning: Glyph 2332 (\N{DEVANAGARI LETTER JA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:181:
UserWarning: Glyph 2367 (\N{DEVANAGARI VOWEL SIGN I}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:181:
UserWarning: Glyph 2325 (\N{DEVANAGARI LETTER KA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:181:
UserWarning: Glyph 2375 (\N{DEVANAGARI VOWEL SIGN E}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:181:
UserWarning: Glyph 2319 (\N{DEVANAGARI LETTER E}) missing from current
font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:181:
UserWarning: Glyph 2306 (\N{DEVANAGARI SIGN ANUSVARA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2360 (\N{DEVANAGARI LETTER SA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
```

```
pylabtools.py:170: UserWarning: Matplotlib currently does not support
Devanagari natively.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2366 (\N{DEVANAGARI VOWEL SIGN
AA}) missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2350 (\N{DEVANAGARI LETTER MA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2344 (\N{DEVANAGARI LETTER NA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2381 (\N{DEVANAGARI SIGN
VIRAMA)) missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2351 (\N{DEVANAGARI LETTER YA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2352 (\N{DEVANAGARI LETTER RA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2357 (\N{DEVANAGARI LETTER VA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2332 (\N{DEVANAGARI LETTER JA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2367 (\N{DEVANAGARI VOWEL SIGN
I}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2325 (\N{DEVANAGARI LETTER KA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2375 (\N{DEVANAGARI VOWEL SIGN
E}) missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2319 (\N{DEVANAGARI LETTER E})
```

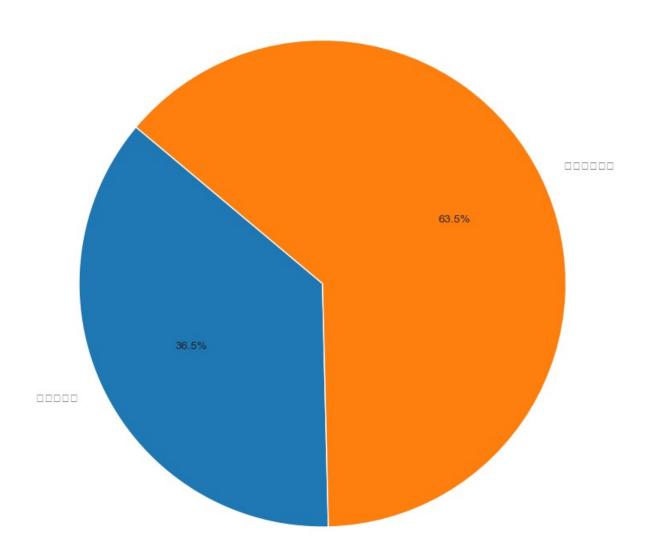
```
missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2306 (\N{DEVANAGARI SIGN
ANUSVARA}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
```



```
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:197:
UserWarning: Glyph 2352 (\N{DEVANAGARI LETTER RA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:197:
UserWarning: Matplotlib currently does not support Devanagari
natively.
  plt.tight_layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:197:
UserWarning: Glyph 2325 (\N{DEVANAGARI LETTER KA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:197:
UserWarning: Glyph 2381 (\N{DEVANAGARI SIGN VIRAMA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:197:
UserWarning: Glyph 2359 (\N{DEVANAGARI LETTER SSA}) missing from
current font.
```

```
plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:197:
UserWarning: Glyph 2366 (\N{DEVANAGARI VOWEL SIGN AA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:197:
UserWarning: Glyph 2358 (\N{DEVANAGARI LETTER SHA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:197:
UserWarning: Glyph 2367 (\N{DEVANAGARI VOWEL SIGN I}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2352 (\N{DEVANAGARI LETTER RA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Matplotlib currently does not support
Devanagari natively.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2325 (\N{DEVANAGARI LETTER KA})
missing from current font.
  fig.canvas.print_figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2381 (\N{DEVANAGARI SIGN
VIRAMA}) missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2359 (\N{DEVANAGARI LETTER SSA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2366 (\N{DEVANAGARI VOWEL SIGN
AA}) missing from current font.
  fig.canvas.print_figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2358 (\N{DEVANAGARI LETTER SHA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2367 (\N{DEVANAGARI VOWEL SIGN
I}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
```

Distribution by expenditure



C:\Users\SushilSC\AppData\Local\Temp\ipykernel_32556\994452854.py:212:
UserWarning: Glyph 2360 (\N{DEVANAGARI LETTER SA}) missing from
current font.

plt.tight layout()

C:\Users\SushilSC\AppData\Local\Temp\ipykernel_32556\994452854.py:212: UserWarning: Matplotlib currently does not support Devanagari natively.

plt.tight layout()

C:\Users\SushilSC\AppData\Local\Temp\ipykernel_32556\994452854.py:212: UserWarning: Glyph 2366 (\N{DEVANAGARI VOWEL SIGN AA}) missing from current font.

```
plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:212:
UserWarning: Glyph 2350 (\N{DEVANAGARI LETTER MA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:212:
UserWarning: Glyph 2344 (\N{DEVANAGARI LETTER NA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:212:
UserWarning: Glyph 2381 (\N{DEVANAGARI SIGN VIRAMA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:212:
UserWarning: Glyph 2351 (\N{DEVANAGARI LETTER YA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:212:
UserWarning: Glyph 2352 (\N{DEVANAGARI LETTER RA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:212:
UserWarning: Glyph 2357 (\N{DEVANAGARI LETTER VA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:212:
UserWarning: Glyph 2332 (\N{DEVANAGARI LETTER JA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:212:
UserWarning: Glyph 2367 (\N{DEVANAGARI VOWEL SIGN I}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:212:
UserWarning: Glyph 2325 (\N{DEVANAGARI LETTER KA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:212:
UserWarning: Glyph 2375 (\N{DEVANAGARI VOWEL SIGN E}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:212:
UserWarning: Glyph 2319 (\N{DEVANAGARI LETTER E}) missing from current
font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:212:
UserWarning: Glyph 2306 (\N{DEVANAGARI SIGN ANUSVARA}) missing from
current font.
  plt.tight layout()
```

```
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:212:
UserWarning: Glyph 2359 (\N{DEVANAGARI LETTER SSA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\AppData\Local\Temp\ipykernel 32556\994452854.py:212:
UserWarning: Glyph 2358 (\N{DEVANAGARI LETTER SHA}) missing from
current font.
  plt.tight layout()
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2360 (\N{DEVANAGARI LETTER SA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Matplotlib currently does not support
Devanagari natively.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2366 (\N{DEVANAGARI VOWEL SIGN
AA}) missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2350 (\N{DEVANAGARI LETTER MA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2344 (\N{DEVANAGARI LETTER NA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2381 (\N{DEVANAGARI SIGN
VIRAMA}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2351 (\N{DEVANAGARI LETTER YA})
missing from current font.
  fig.canvas.print_figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2352 (\N{DEVANAGARI LETTER RA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2357 (\N{DEVANAGARI LETTER VA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2332 (\N{DEVANAGARI LETTER JA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
```

```
pylabtools.py:170: UserWarning: Glyph 2367 (\N{DEVANAGARI VOWEL SIGN
I}) missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2325 (\N{DEVANAGARI LETTER KA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2375 (\N{DEVANAGARI VOWEL SIGN
E}) missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2319 (\N{DEVANAGARI LETTER E})
missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2306 (\N{DEVANAGARI SIGN
ANUSVARA)) missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2359 (\N{DEVANAGARI LETTER SSA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
C:\Users\SushilSC\anaconda3\Lib\site-packages\IPython\core\
pylabtools.py:170: UserWarning: Glyph 2358 (\N{DEVANAGARI LETTER SHA})
missing from current font.
  fig.canvas.print figure(bytes io, **kw)
```

