Step :1-Introduction -> Give a detailed data description and objective

Import the data and display the head, shape and description of the data.

In [4]:
```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns

# Load the dataset
df= pd.read_csv('data.csv')
```

In [2]:
```
print("Data Head:\n", df.head())
```

```
Data Head:
   Unnamed: 0      ID     Salary          DOJ          DOL  \
0      train  203097   420000.0  6/1/12 0:00      present
1      train  579905   500000.0  9/1/13 0:00      present
2      train  810601   325000.0  6/1/14 0:00      present
3      train  267447  1100000.0  7/1/11 0:00      present
4      train  343523   200000.0  3/1/14 0:00  3/1/15 0:00

                Designation    JobCity Gender           DOB  10percentage
\
0   senior quality engineer  Bangalore      f  2/19/90 0:00          84.3
1         assistant manager     Indore      m  10/4/89 0:00          85.4
2          systems engineer    Chennai      f   8/3/92 0:00          85.0
3  senior software engineer    Gurgaon      m  12/5/89 0:00          85.6
4                      get    Manesar      m  2/27/91 0:00          78.0

   ... ComputerScience  MechanicalEngg  ElectricalEngg TelecomEngg  CivilE
ngg  \
0  ...              -1              -1              -1          -1
-1
1  ...              -1              -1              -1          -1
-1
2  ...              -1              -1              -1          -1
-1
3  ...              -1              -1              -1          -1
-1
4  ...              -1              -1              -1          -1
-1

   conscientiousness agreeableness extraversion  nueroticism  \
0             0.9737        0.8128       0.5269      1.35490
1            -0.7335        0.3789       1.2396     -0.10760
2             0.2718        1.7109       0.1637     -0.86820
3             0.0464        0.3448      -0.3440     -0.40780
4            -0.8810       -0.2793      -1.0697      0.09163

   openess_to_experience
0                -0.4455
1                 0.8637
2                 0.6721
3                -0.9194
4                -0.1295

[5 rows x 39 columns]
```

In [3]:
```
print("\nData Shape:", df.shape)
```

```
Data Shape: (3998, 39)
```

In [4]:
```
print("\nData Description:\n", df.describe())
```

```
Data Description:
                 ID        Salary  10percentage  12graduation  12percenta
ge  \
count  3.998000e+03  3.998000e+03   3998.000000   3998.000000   3998.00000
0
mean   6.637945e+05  3.076998e+05     77.925443   2008.087544     74.46636
6
std    3.632182e+05  2.127375e+05      9.850162      1.653599     10.99993
3
min    1.124400e+04  3.500000e+04     43.000000   1995.000000     40.00000
0
25%    3.342842e+05  1.800000e+05     71.680000   2007.000000     66.00000
0
50%    6.396000e+05  3.000000e+05     79.150000   2008.000000     74.40000
0
75%    9.904800e+05  3.700000e+05     85.670000   2009.000000     82.60000
0
max    1.298275e+06  4.000000e+06     97.760000   2013.000000     98.70000
0

          CollegeID  CollegeTier   collegeGPA  CollegeCityID  CollegeCityT
ier  \
count   3998.000000  3998.000000  3998.000000    3998.000000      3998.000
000
mean    5156.851426     1.925713    71.486171    5156.851426         0.300
400
std     4802.261482     0.262270     8.167338    4802.261482         0.458
489
min        2.000000     1.000000     6.450000       2.000000         0.000
000
25%      494.000000     2.000000    66.407500     494.000000         0.000
000
50%     3879.000000     2.000000    71.720000    3879.000000         0.000
000
75%     8818.000000     2.000000    76.327500    8818.000000         1.000
000
max    18409.000000     2.000000    99.930000   18409.000000         1.000
000

       ...  ComputerScience  MechanicalEngg  ElectricalEngg  TelecomEngg
\
count  ...      3998.000000     3998.000000     3998.000000  3998.000000
mean   ...        90.742371       22.974737       16.478739    31.851176
std    ...       175.273083       98.123311       87.585634   104.852845
min    ...        -1.000000       -1.000000       -1.000000    -1.000000
25%    ...        -1.000000       -1.000000       -1.000000    -1.000000
50%    ...        -1.000000       -1.000000       -1.000000    -1.000000
75%    ...        -1.000000       -1.000000       -1.000000    -1.000000
max    ...       715.000000      623.000000      676.000000   548.000000

         CivilEngg  conscientiousness  agreeableness  extraversion  \
count  3998.000000        3998.000000    3998.000000   3998.000000
mean      2.683842          -0.037831       0.146496      0.002763
std      36.658505           1.028666       0.941782      0.951471
min      -1.000000          -4.126700      -5.781600     -4.600900
25%      -1.000000          -0.713525      -0.287100     -0.604800
50%      -1.000000           0.046400       0.212400      0.091400
75%      -1.000000           0.702700       0.812800      0.672000
max     516.000000           1.995300       1.904800      2.535400
```

```
       nueroticism  openess_to_experience
count  3998.000000            3998.000000
mean     -0.169033              -0.138110
std       1.007580               1.008075
min      -2.643000              -7.375700
25%      -0.868200              -0.669200
50%      -0.234400              -0.094300
75%       0.526200               0.502400
max       3.352500               1.822400

[8 rows x 27 columns]
```

In [5]:
```
print("\nData Info:\n")
df.info()
```

```
Data Info:

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 3998 entries, 0 to 3997
Data columns (total 39 columns):
 #   Column                 Non-Null Count  Dtype
---  ------                 --------------  -----
 0   Unnamed: 0             3998 non-null   object
 1   ID                     3998 non-null   int64
 2   Salary                 3998 non-null   float64
 3   DOJ                    3998 non-null   object
 4   DOL                    3998 non-null   object
 5   Designation            3998 non-null   object
 6   JobCity                3998 non-null   object
 7   Gender                 3998 non-null   object
 8   DOB                    3998 non-null   object
 9   10percentage           3998 non-null   float64
 10  10board                3998 non-null   object
 11  12graduation           3998 non-null   int64
 12  12percentage           3998 non-null   float64
 13  12board                3998 non-null   object
 14  CollegeID              3998 non-null   int64
 15  CollegeTier            3998 non-null   int64
 16  Degree                 3998 non-null   object
 17  Specialization         3998 non-null   object
 18  collegeGPA             3998 non-null   float64
 19  CollegeCityID          3998 non-null   int64
 20  CollegeCityTier        3998 non-null   int64
 21  CollegeState           3998 non-null   object
 22  GraduationYear         3998 non-null   int64
 23  English                3998 non-null   int64
 24  Logical                3998 non-null   int64
 25  Quant                  3998 non-null   int64
 26  Domain                 3998 non-null   float64
 27  ComputerProgramming    3998 non-null   int64
 28  ElectronicsAndSemicon  3998 non-null   int64
 29  ComputerScience        3998 non-null   int64
 30  MechanicalEngg         3998 non-null   int64
 31  ElectricalEngg         3998 non-null   int64
 32  TelecomEngg            3998 non-null   int64
 33  CivilEngg              3998 non-null   int64
 34  conscientiousness      3998 non-null   float64
 35  agreeableness          3998 non-null   float64
 36  extraversion           3998 non-null   float64
 37  nueroticism            3998 non-null   float64
 38  openess_to_experience  3998 non-null   float64
dtypes: float64(10), int64(17), object(12)
memory usage: 1.2+ MB
```

In [6]:
```
# Check for missing values
print("\nMissing Values in Each Column:\n", df.isnull().sum())
```

```
Missing Values in Each Column:
 Unnamed: 0               0
ID                       0
Salary                   0
DOJ                      0
DOL                      0
Designation              0
JobCity                  0
Gender                   0
DOB                      0
10percentage             0
10board                  0
12graduation             0
12percentage             0
12board                  0
CollegeID                0
CollegeTier              0
Degree                   0
Specialization           0
collegeGPA               0
CollegeCityID            0
CollegeCityTier          0
CollegeState             0
GraduationYear           0
English                  0
Logical                  0
Quant                    0
Domain                   0
ComputerProgramming      0
ElectronicsAndSemicon    0
ComputerScience          0
MechanicalEngg           0
ElectricalEngg           0
TelecomEngg              0
CivilEngg                0
conscientiousness        0
agreeableness            0
extraversion             0
nueroticism              0
openess_to_experience    0
dtype: int64
```

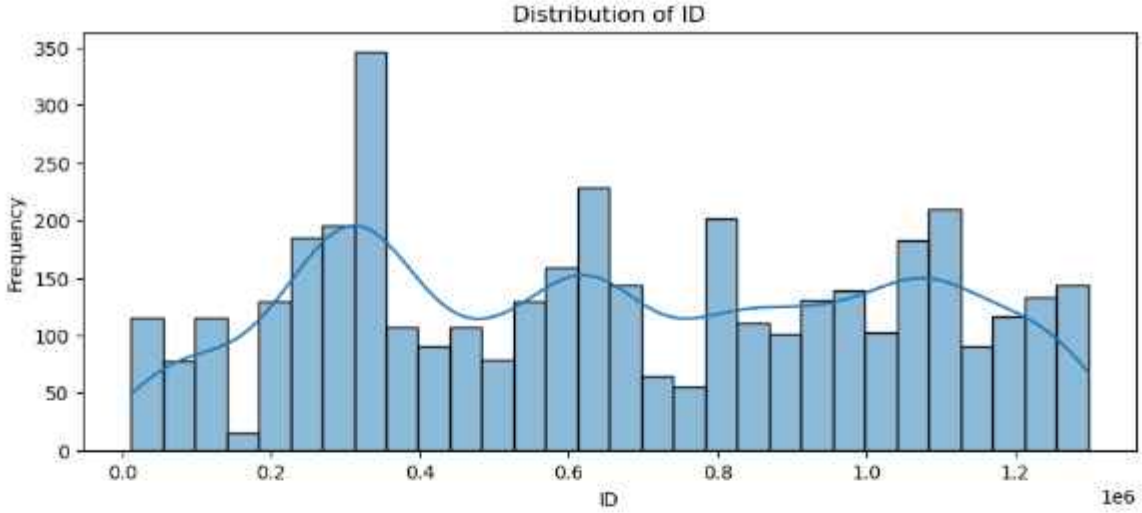
Step 3: Univariate Analysis

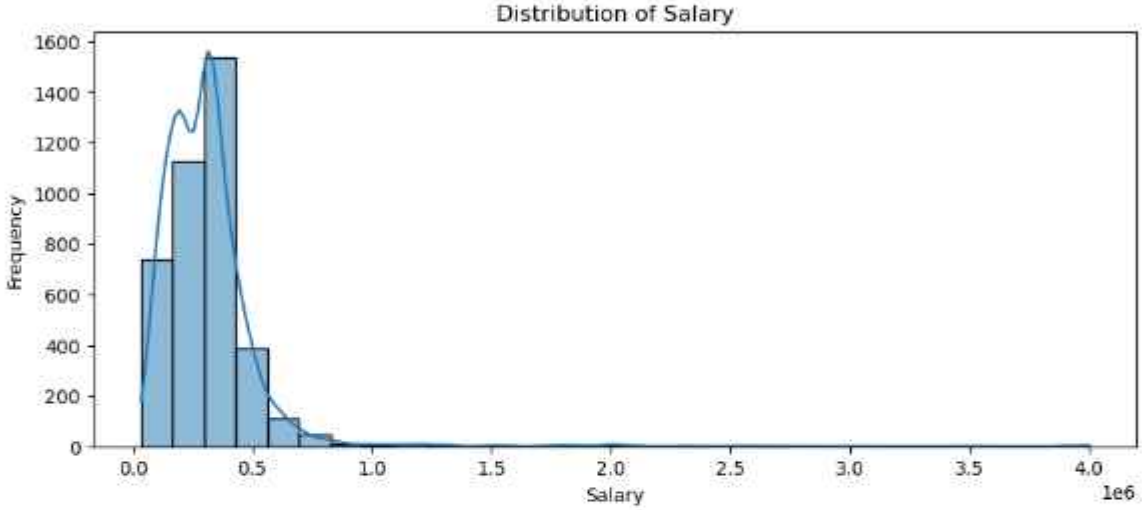
Identify numerical and categorical columns

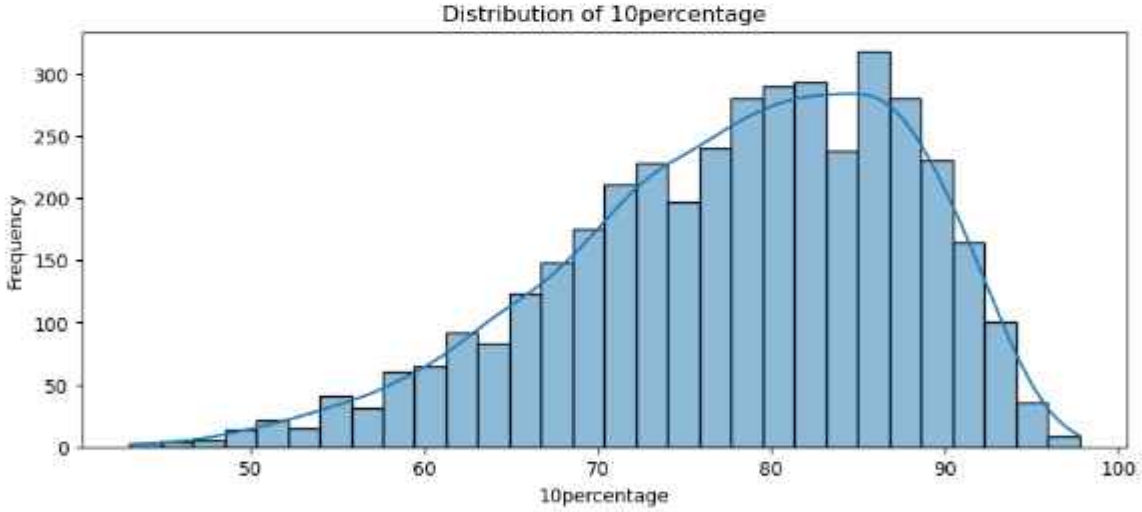
In [5]:
```
numerical_cols = df.select_dtypes(include=[np.number]).columns
categorical_cols = df.select_dtypes(include=['object']).columns
```

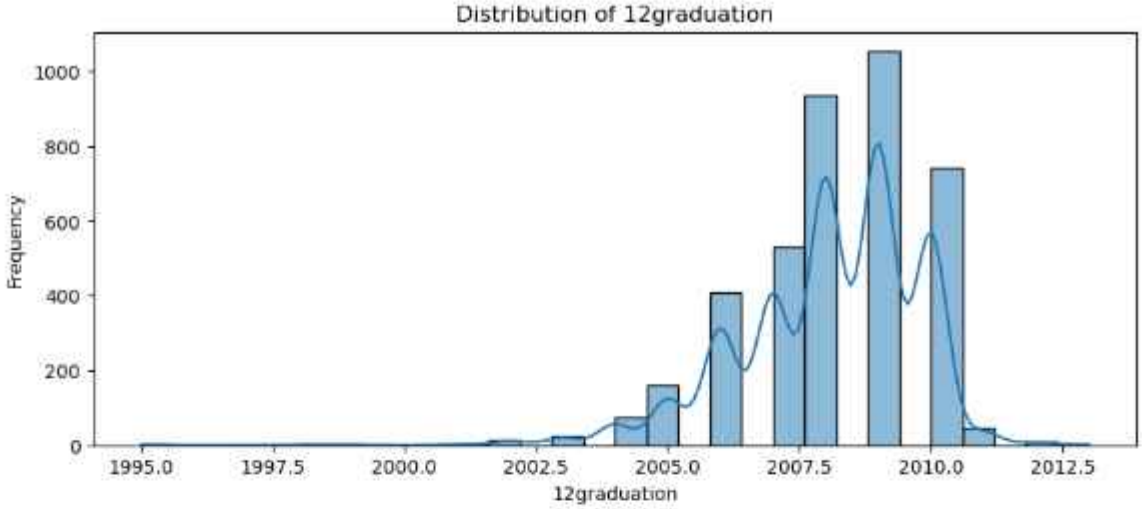
Plotting histograms for numerical columns

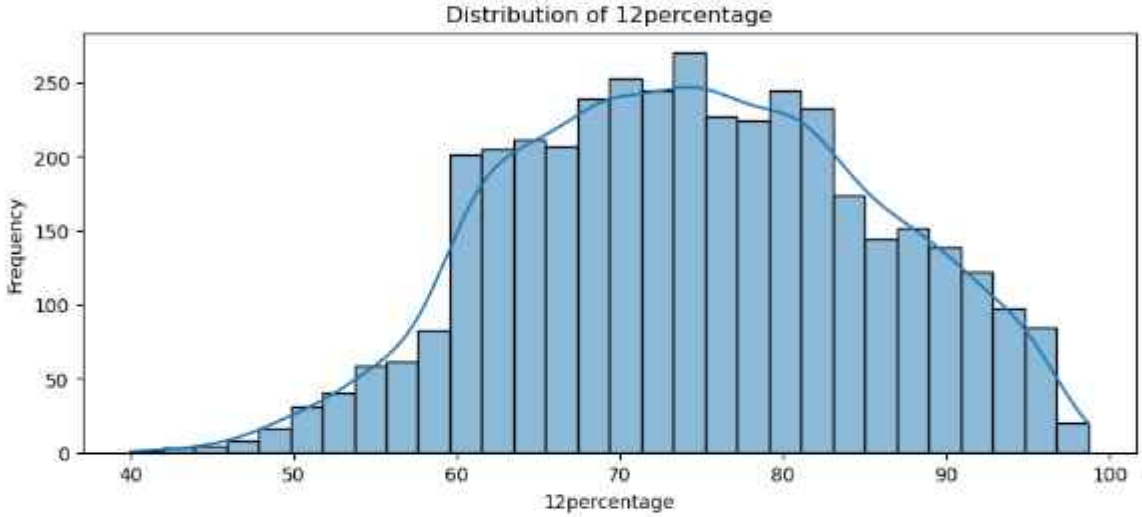
In [6]:
```
plot_count = 0
max_plots = 5
for col in numerical_cols:
    plt.figure(figsize=(10, 4))
    sns.histplot(df[col], kde=True, bins=30)
    plt.title(f'Distribution of {col}')
    plt.xlabel(col)
    plt.ylabel('Frequency')
    plt.show()
```

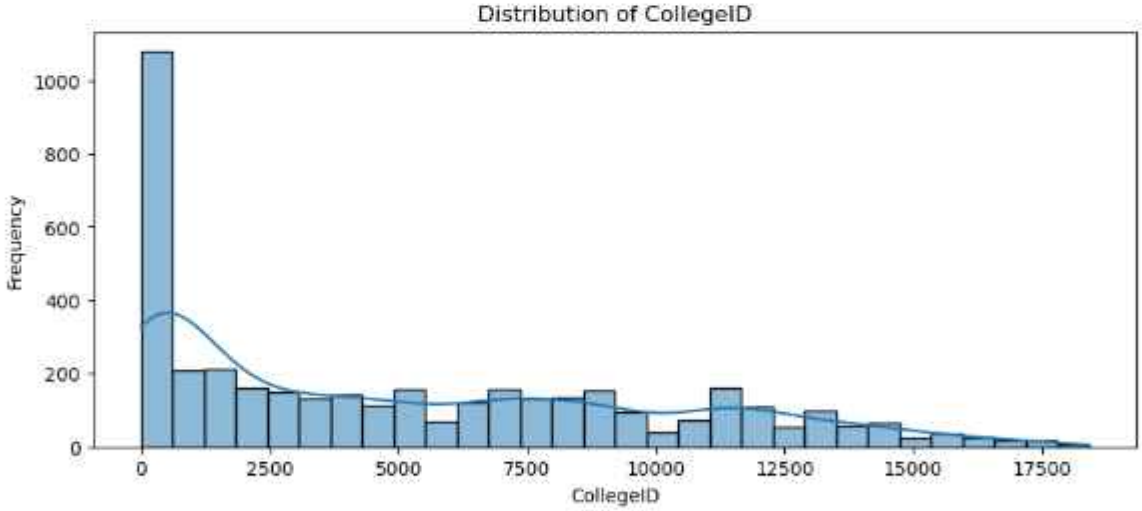

Distribution of ID
Frequency
ID
1e6

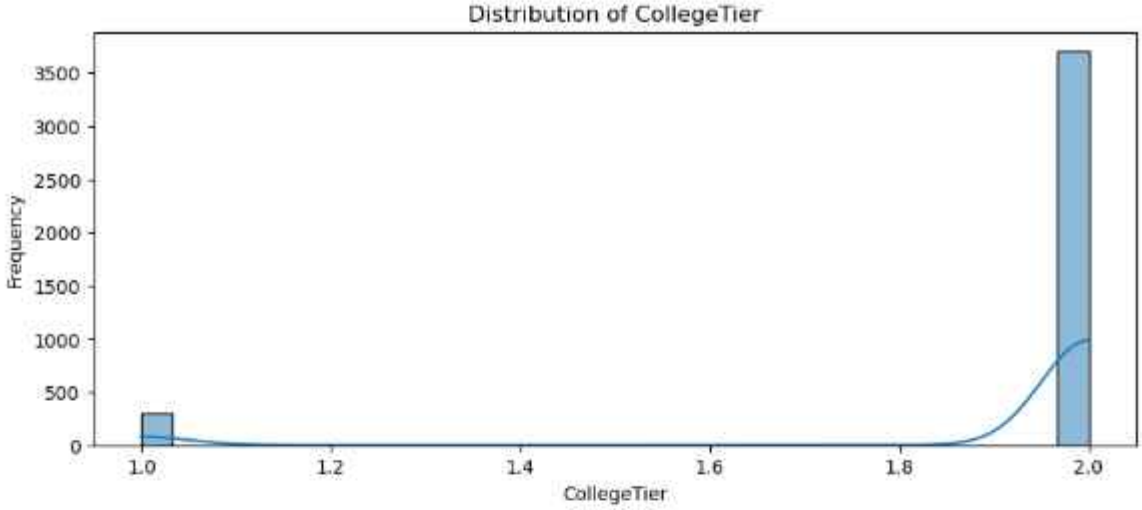

Distribution of Salary
Frequency
Salary
1e6

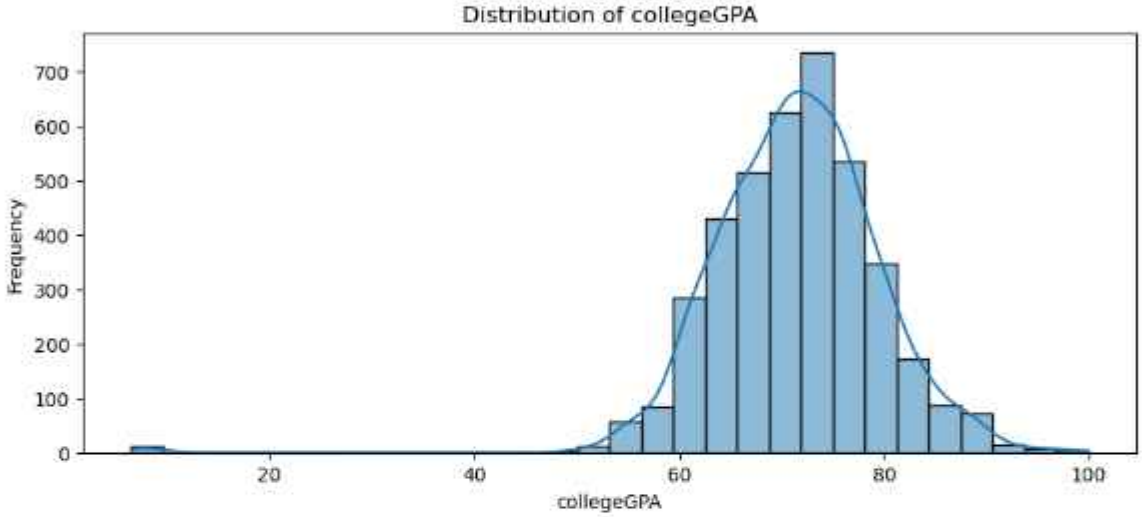

Distribution of 10percentage
Frequency
10percentage

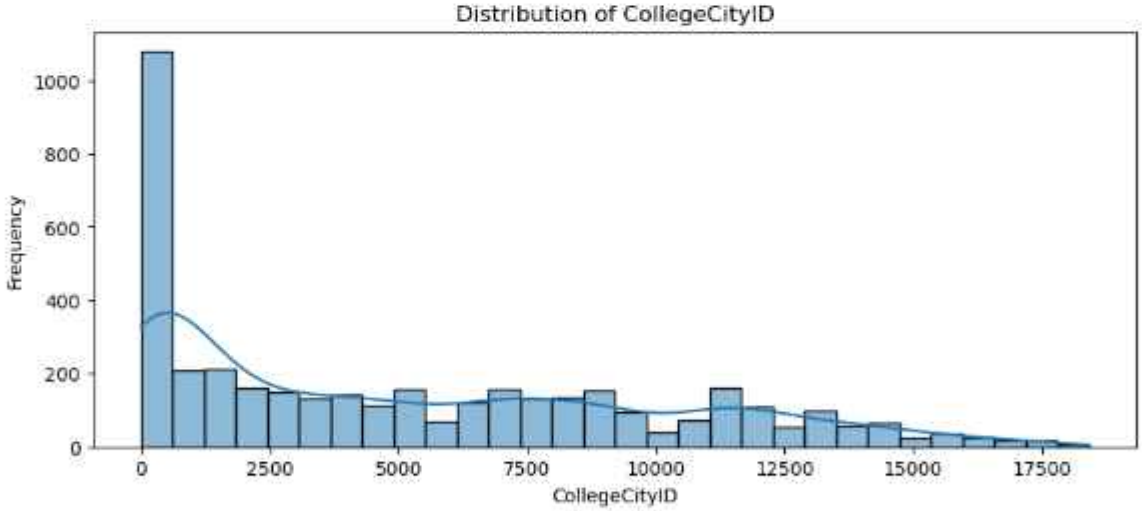

Distribution of 12graduation
Frequency
1000
800
600
400
200
0
1995.0
1997.5
2000.0
2002.5
2005.0
2007.5
2010.0
2012.5
12graduation

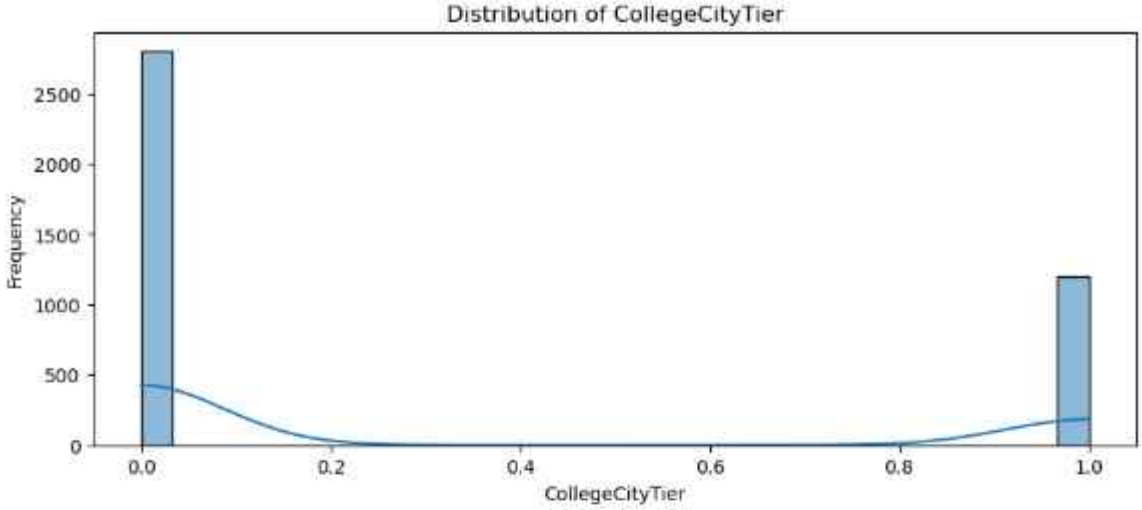

Distribution of 12percentage
Frequency
250
200
150
100
50
0
40
50
60
70
80
90
100
12percentage

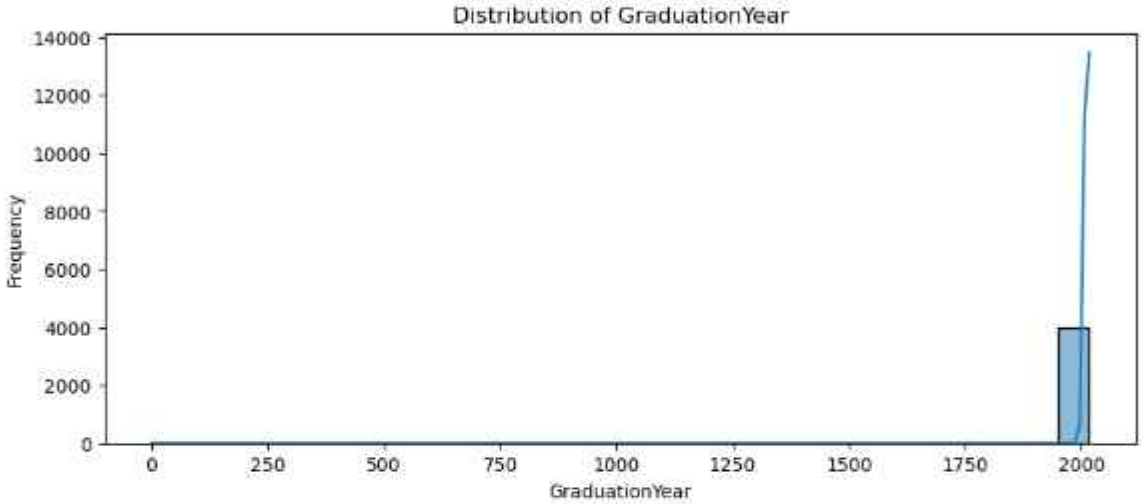

Distribution of CollegeID
Frequency
1000
800
600
400
200
0
0
2500
5000
7500
10000
12500
15000
17500
CollegeID

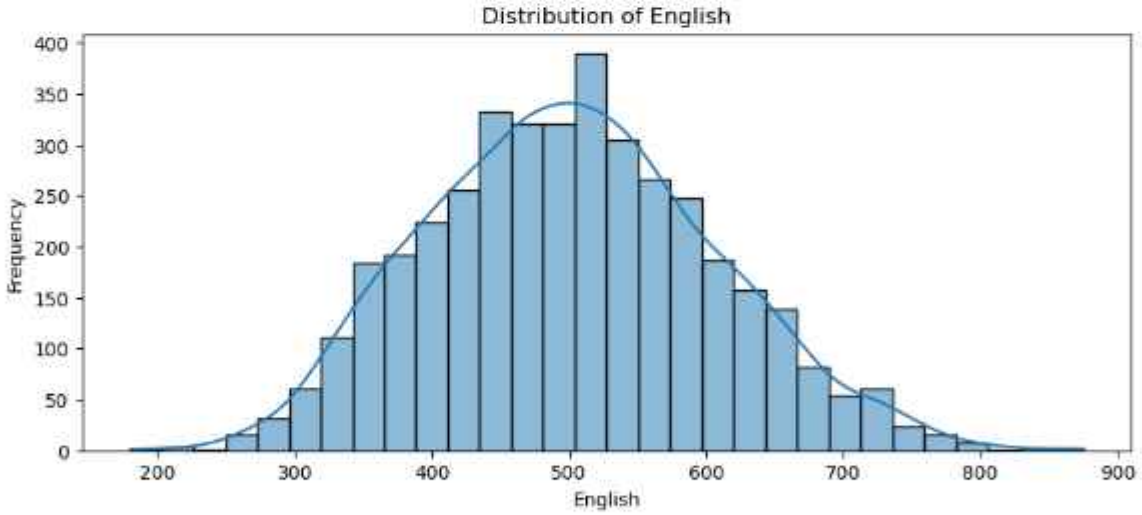

Distribution of CollegeTier
Frequency
CollegeTier
0
500
1000
1500
2000
2500
3000
3500
1.0
1.2
1.4
1.6
1.8
2.0

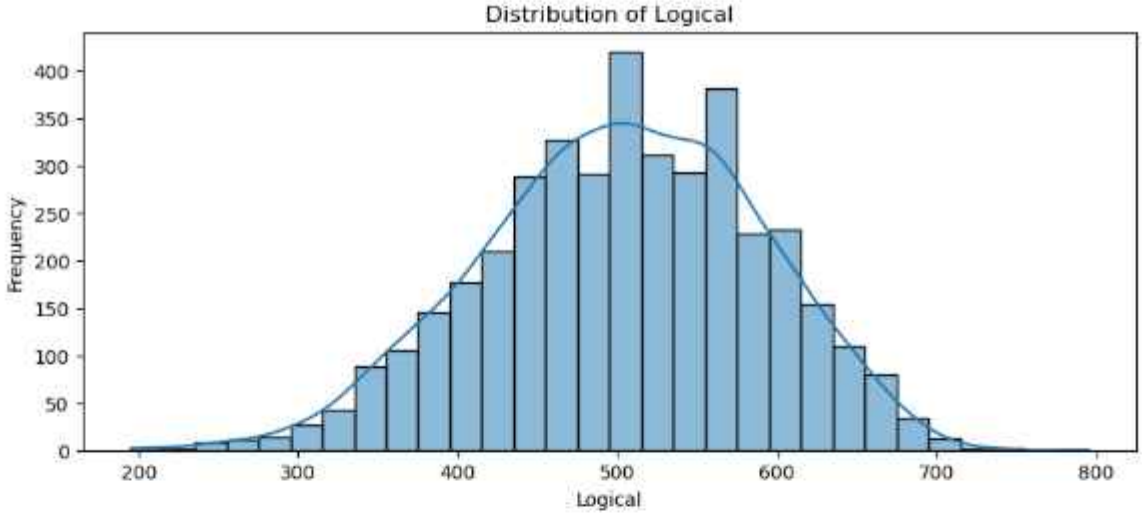

Distribution of collegeGPA
Frequency
collegeGPA
0
100
200
300
400
500
600
700
20
40
60
80
100

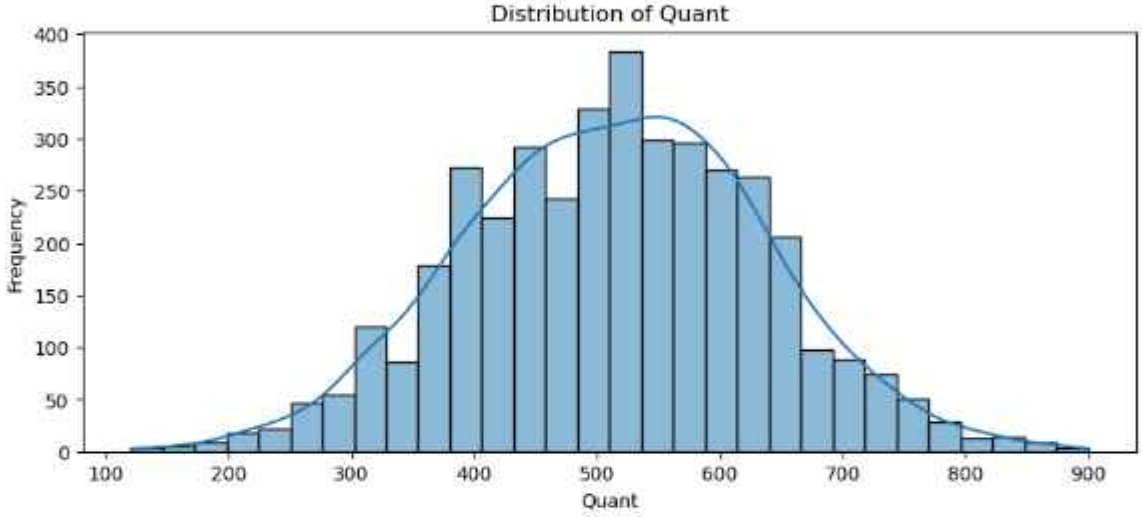

Distribution of CollegeCityID
Frequency
CollegeCityID
0
200
400
600
800
1000
0
2500
5000
7500
10000
12500
15000
17500

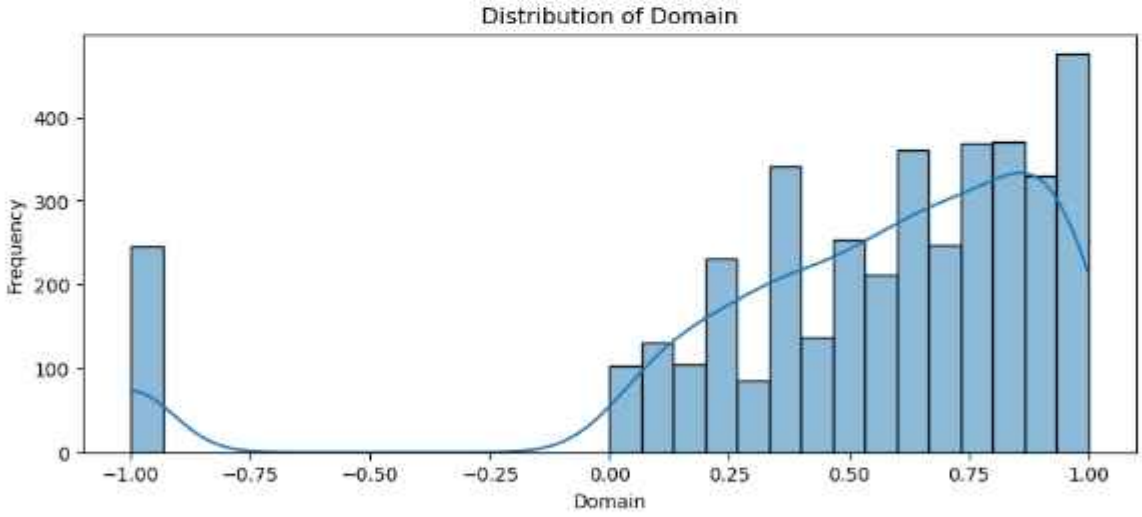

Distribution of CollegeCityTier
Frequency
2500
2000
1500
1000
500
0
0.0
0.2
0.4
0.6
0.8
1.0
CollegeCityTier

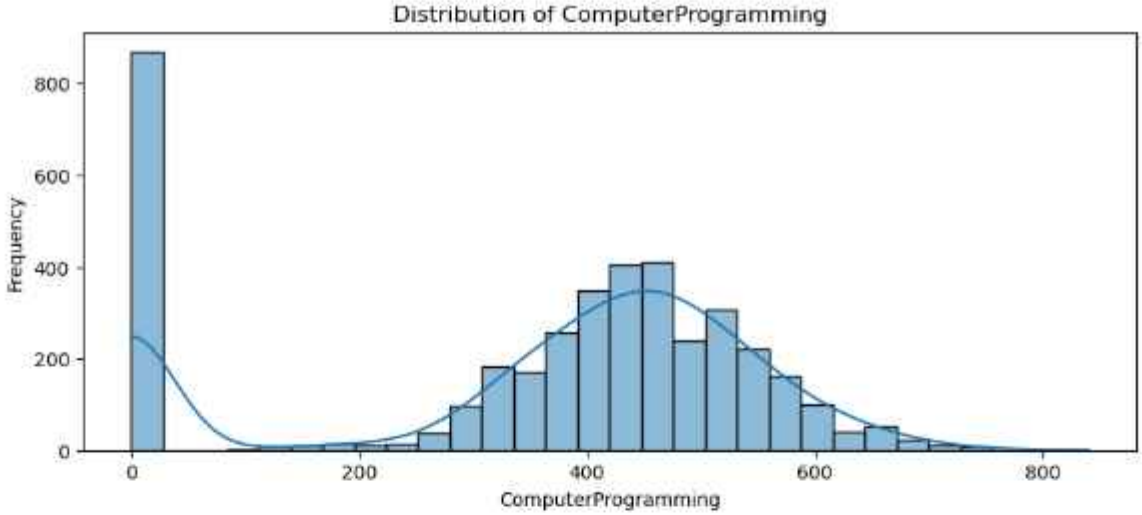

Distribution of GraduationYear
Frequency
14000
12000
10000
8000
6000
4000
2000
0
0
250
500
750
1000
1250
1500
1750
2000
GraduationYear

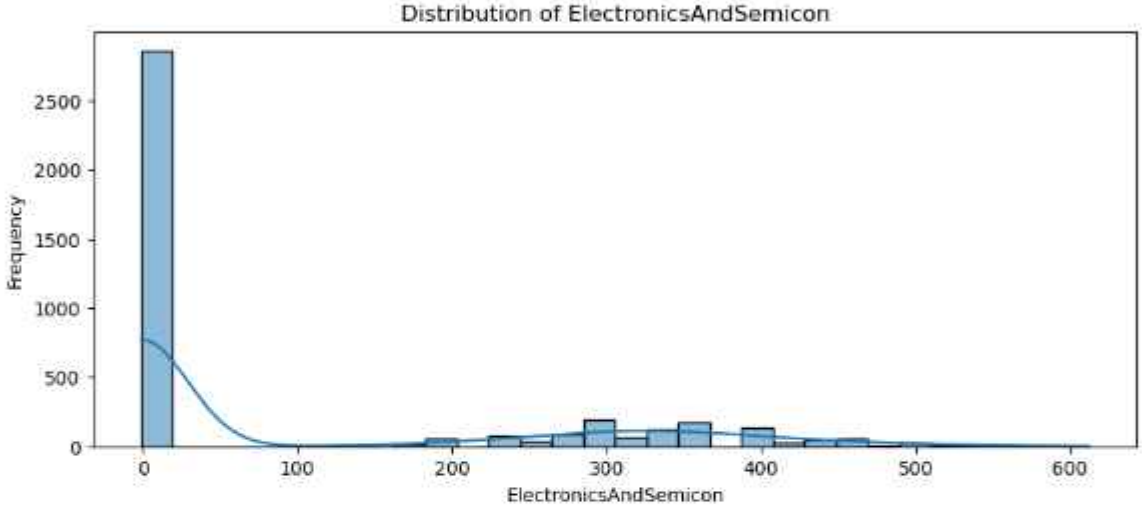

Distribution of English
Frequency
400
350
300
250
200
150
100
50
0
200
300
400
500
600
700
800
900
English

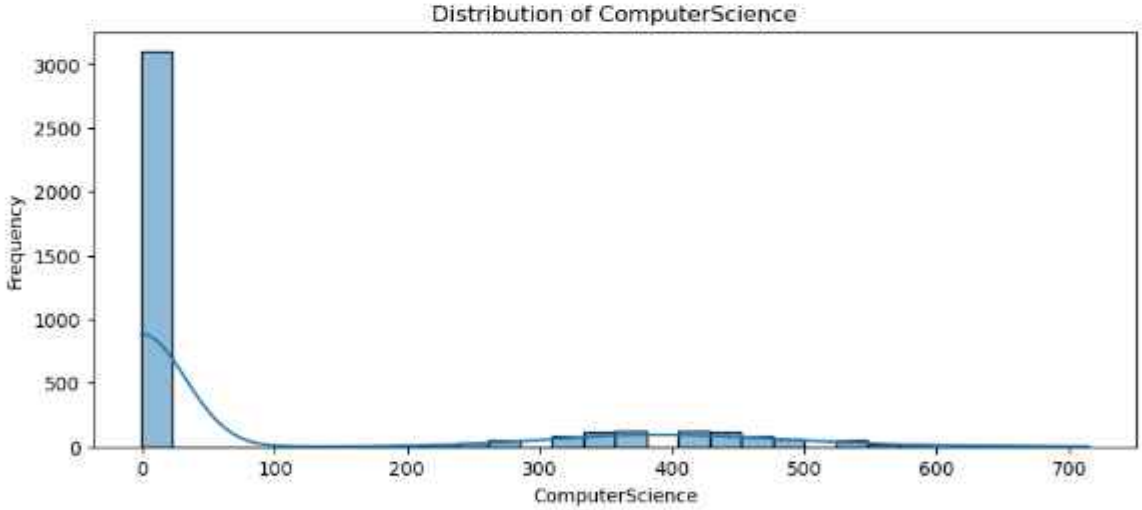

Distribution of Logical
Frequency
Logical
0
50
100
150
200
250
300
350
400
200
300
400
500
600
700
800

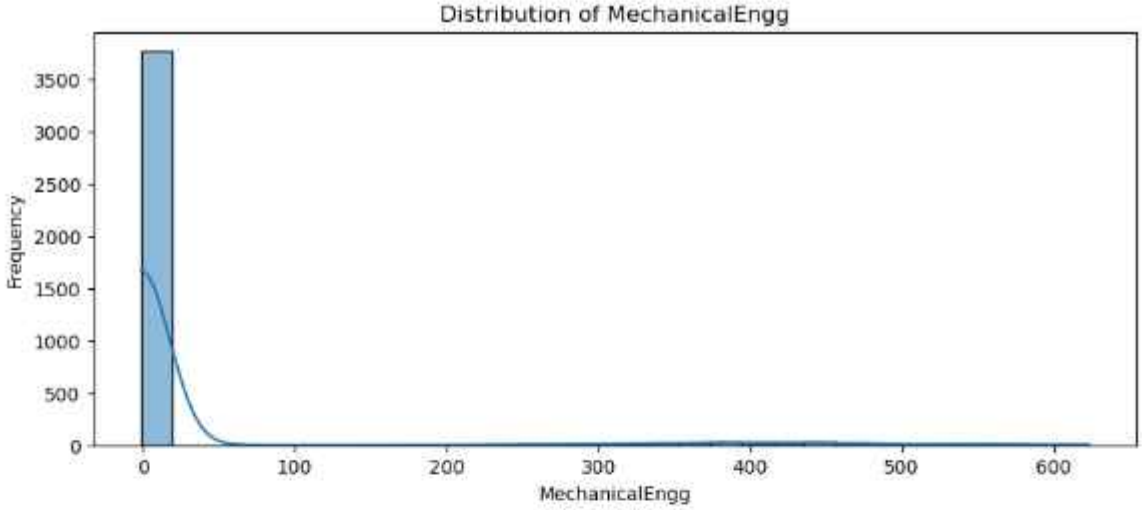

Distribution of Quant
Frequency
Quant
0
50
100
150
200
250
300
350
400
100
200
300
400
500
600
700
800
900

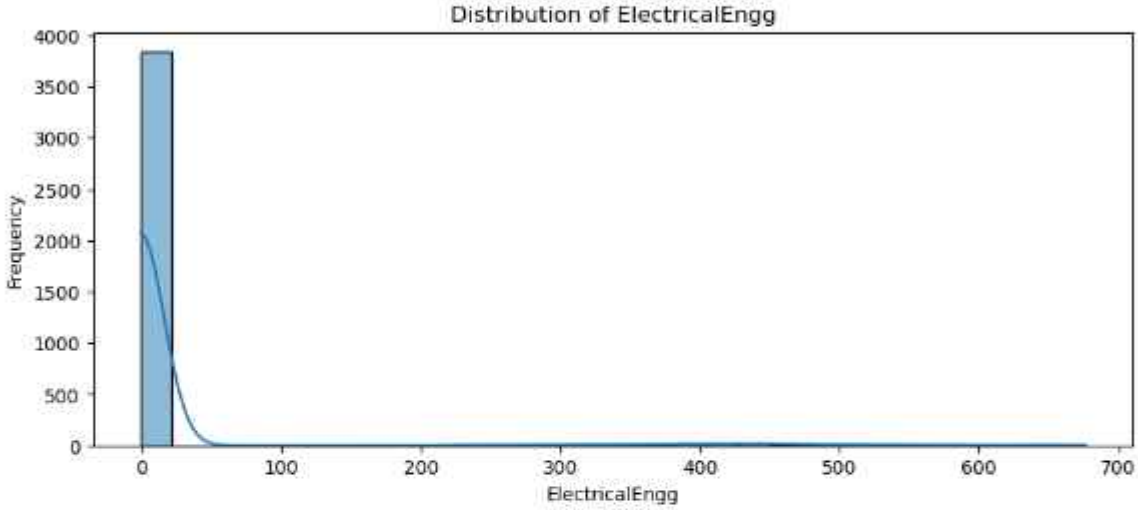

Distribution of Domain
Frequency
Domain
0
100
200
300
400
−1.00
−0.75
−0.50
−0.25
0.00
0.25
0.50
0.75
1.00

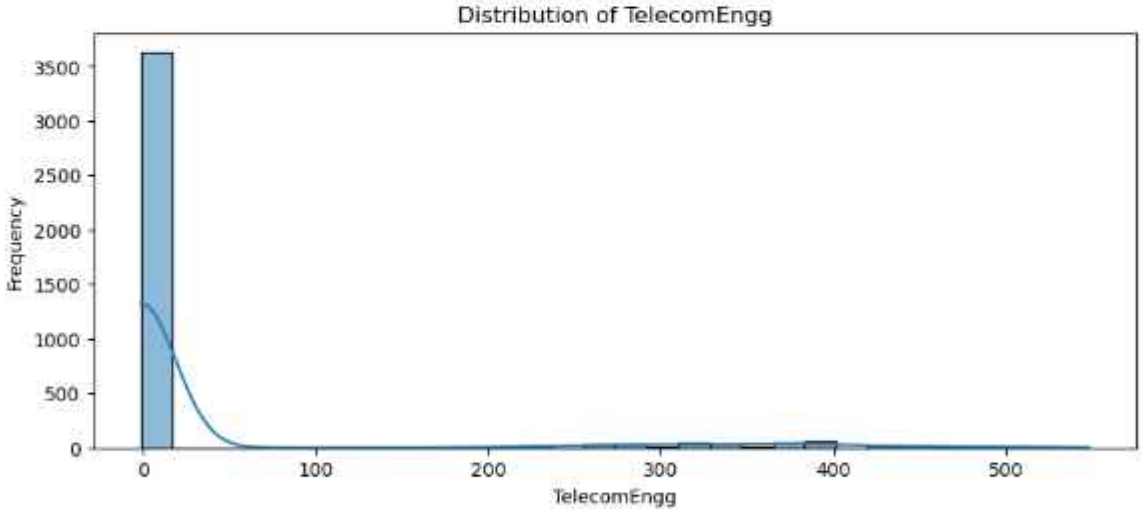

Distribution of ComputerProgramming
Frequency
0
200
400
600
800
0
200
400
600
800
ComputerProgramming

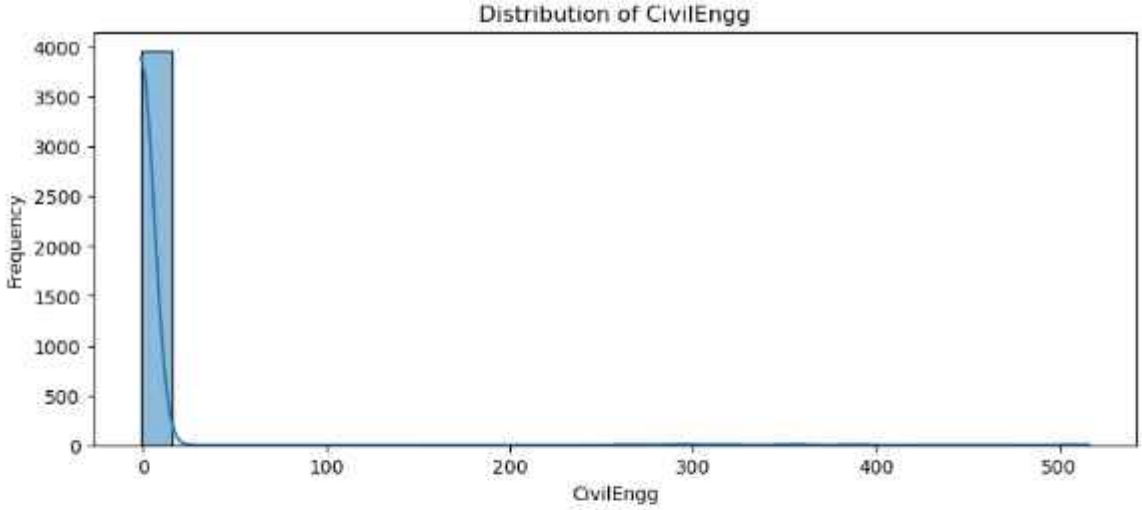

Distribution of ElectronicsAndSemicon
Frequency
0
500
1000
1500
2000
2500
0
100
200
300
400
500
600
ElectronicsAndSemicon

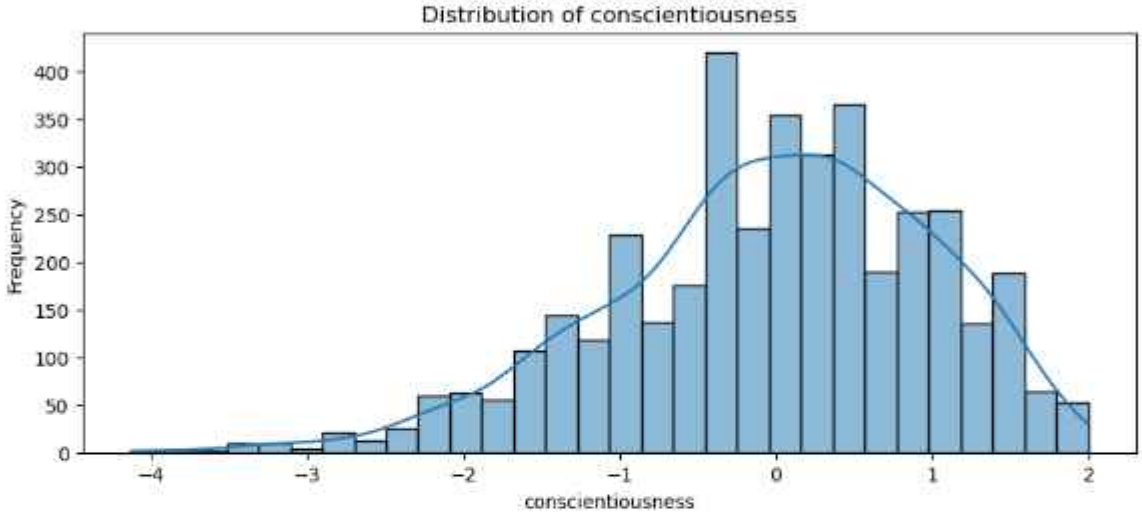

Distribution of ComputerScience
Frequency
0
500
1000
1500
2000
2500
3000
0
100
200
300
400
500
600
700
ComputerScience

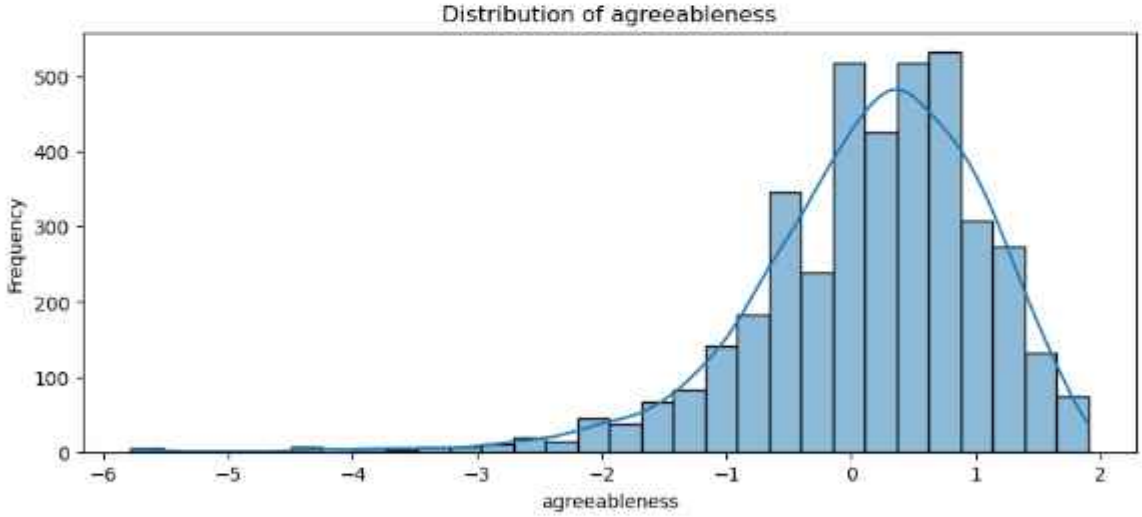

Distribution of MechanicalEngg
Frequency
MechanicalEngg

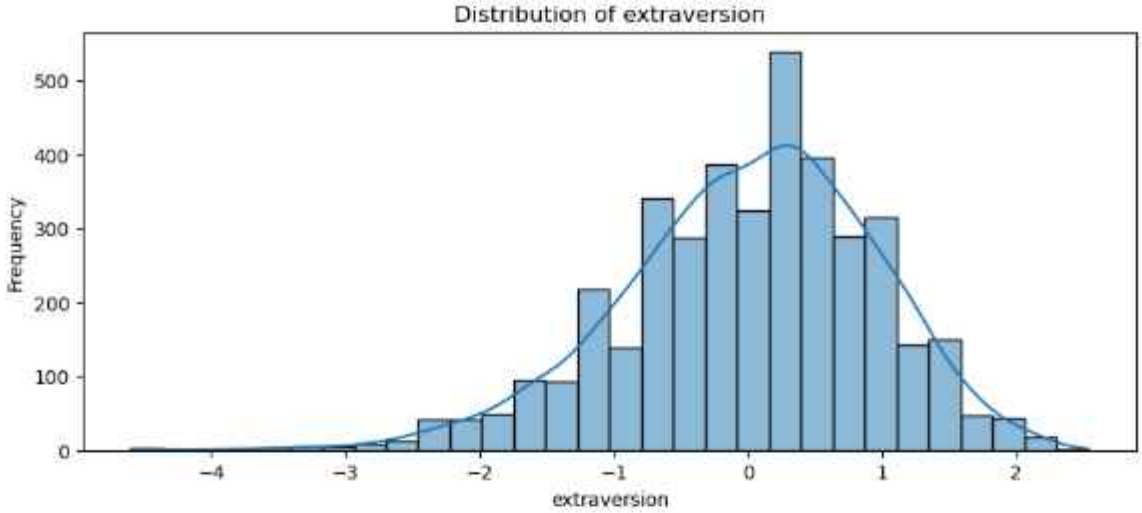

Distribution of ElectricalEngg
Frequency
ElectricalEngg

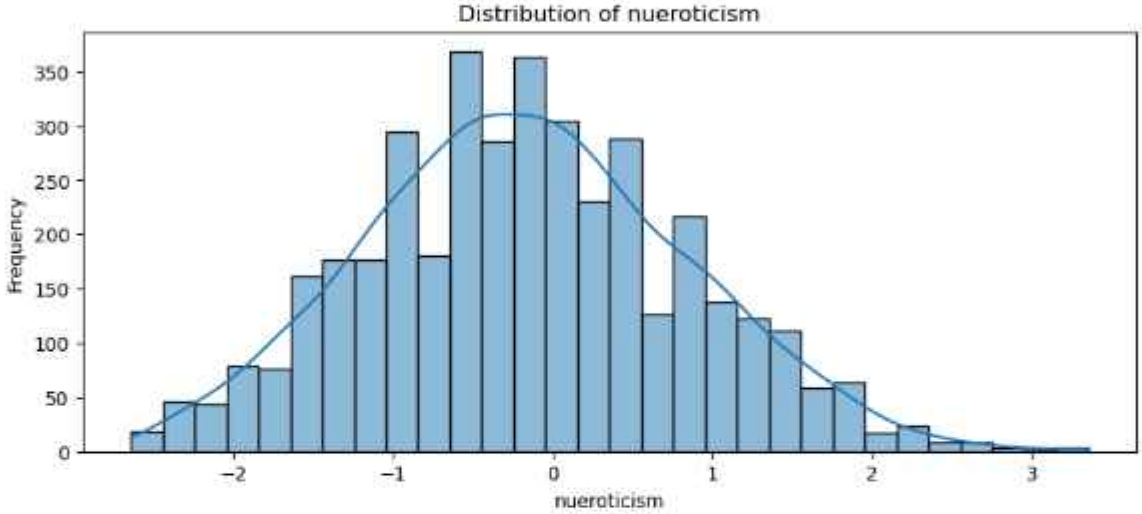

Distribution of TelecomEngg
Frequency
TelecomEngg

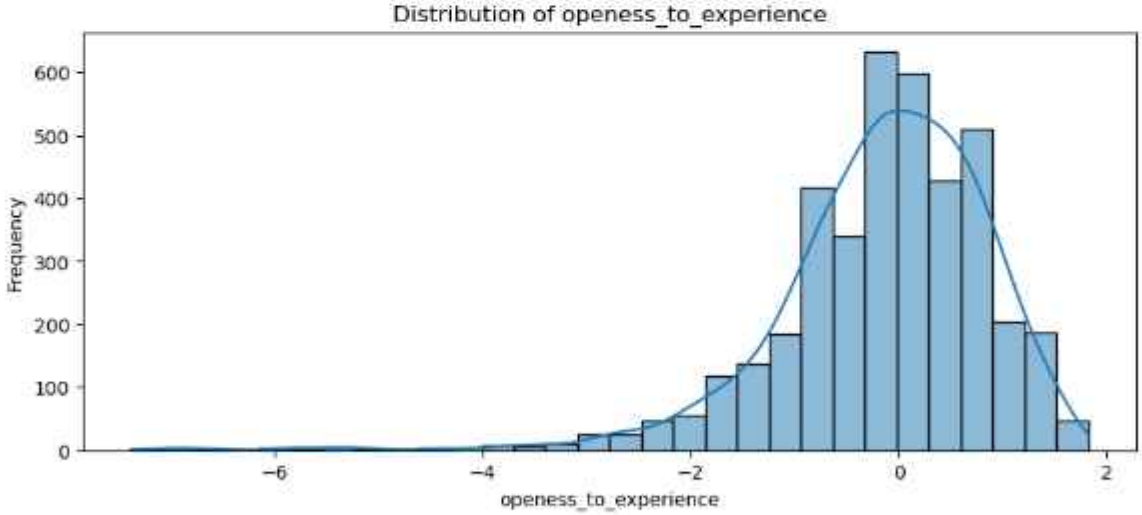

Distribution of CivilEngg
Frequency
CivilEngg


Distribution of conscientiousness
Frequency
conscientiousness


Distribution of agreeableness
Frequency
agreeableness

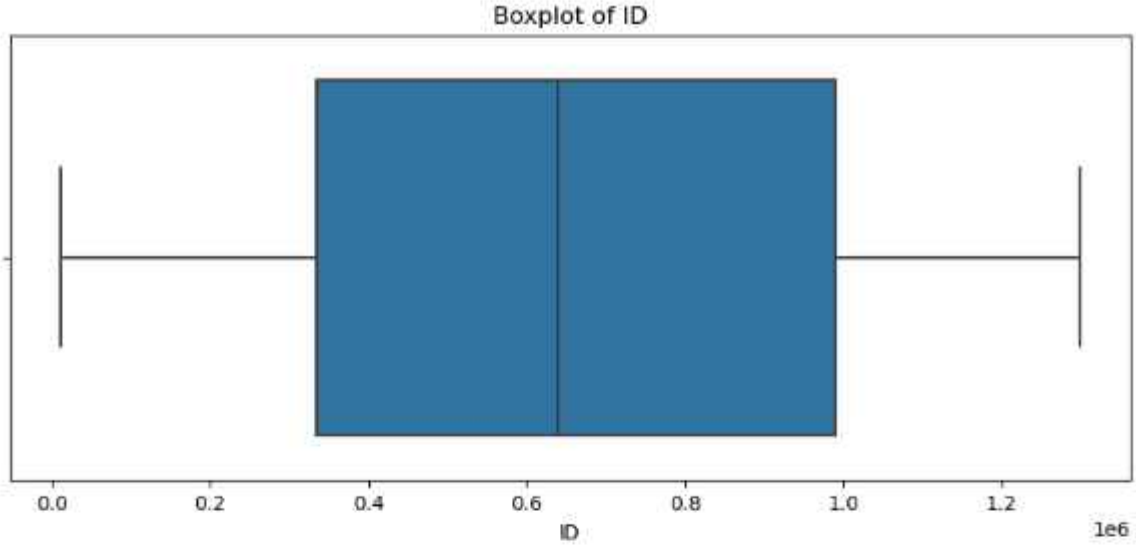


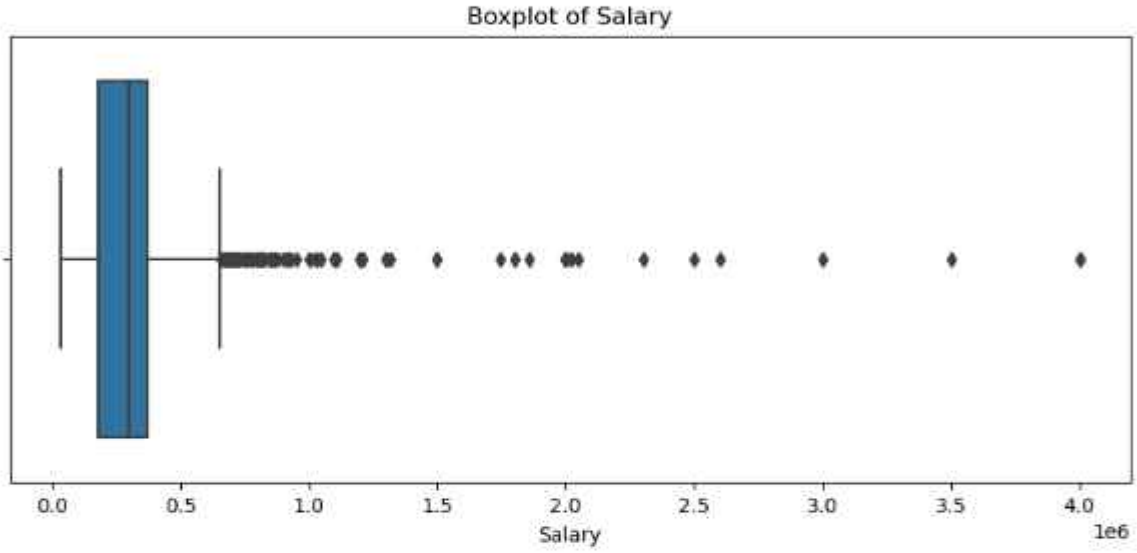


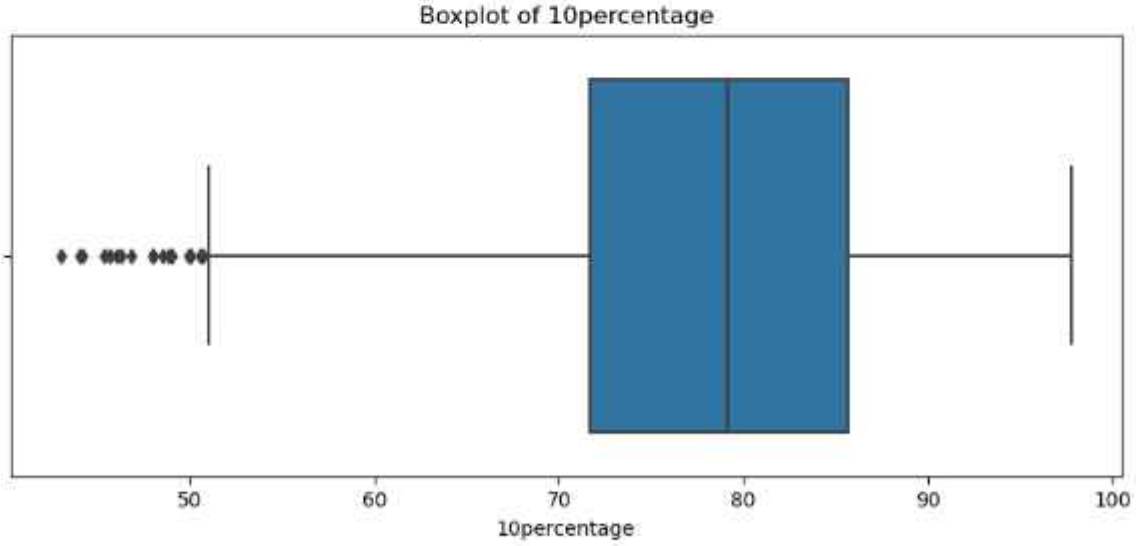


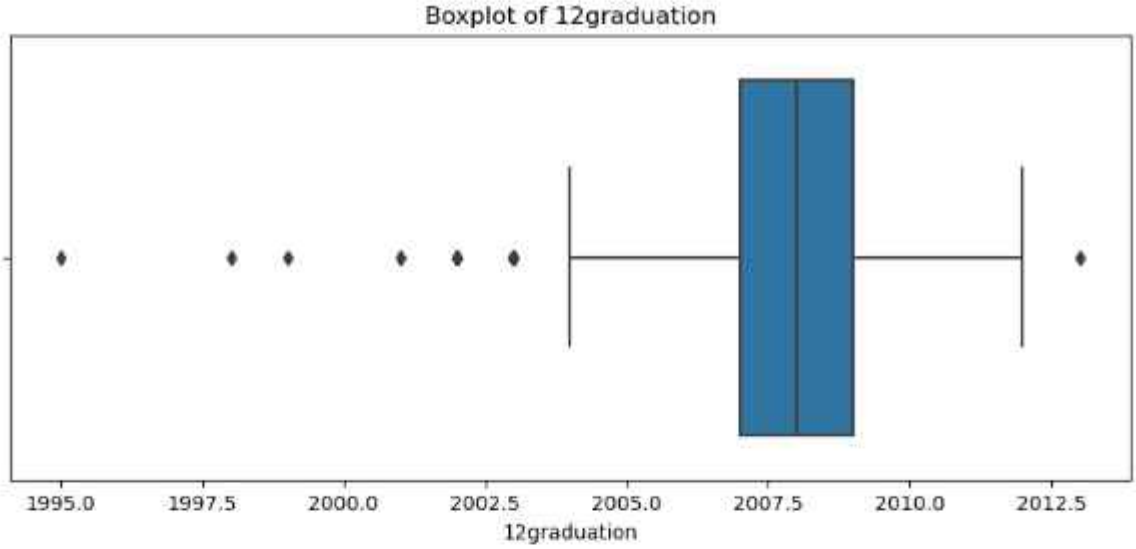
Boxplot to identify outliers

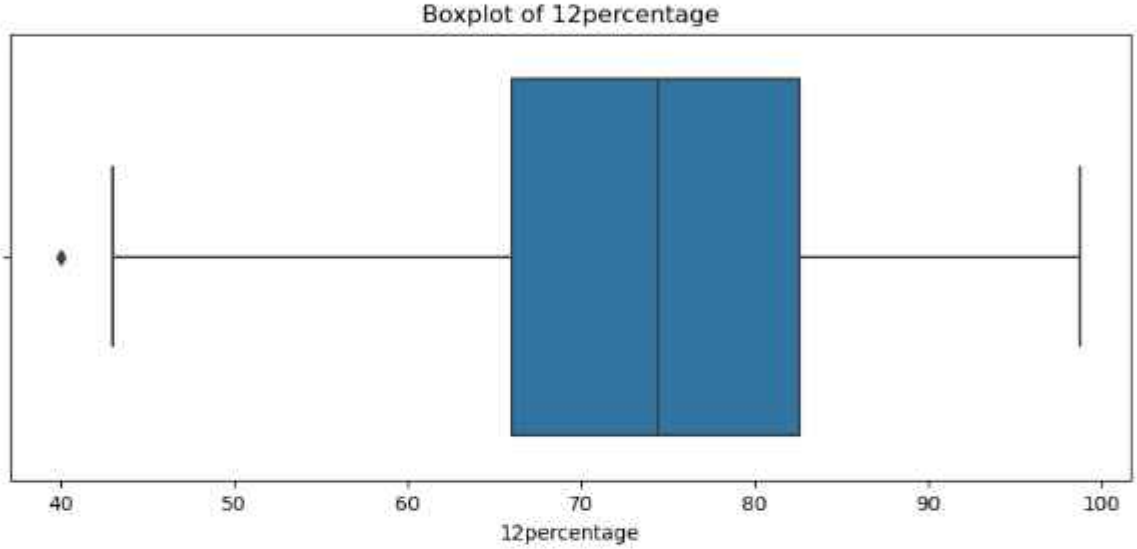
In [8]:
```
plot_count = 0
max_plots = 1
for col in numerical_cols:
    plt.figure(figsize=(10, 4))
    sns.boxplot(x=df[col])
    plt.title(f'Boxplot of {col}')
    plt.xlabel(col)
    plt.show()
```

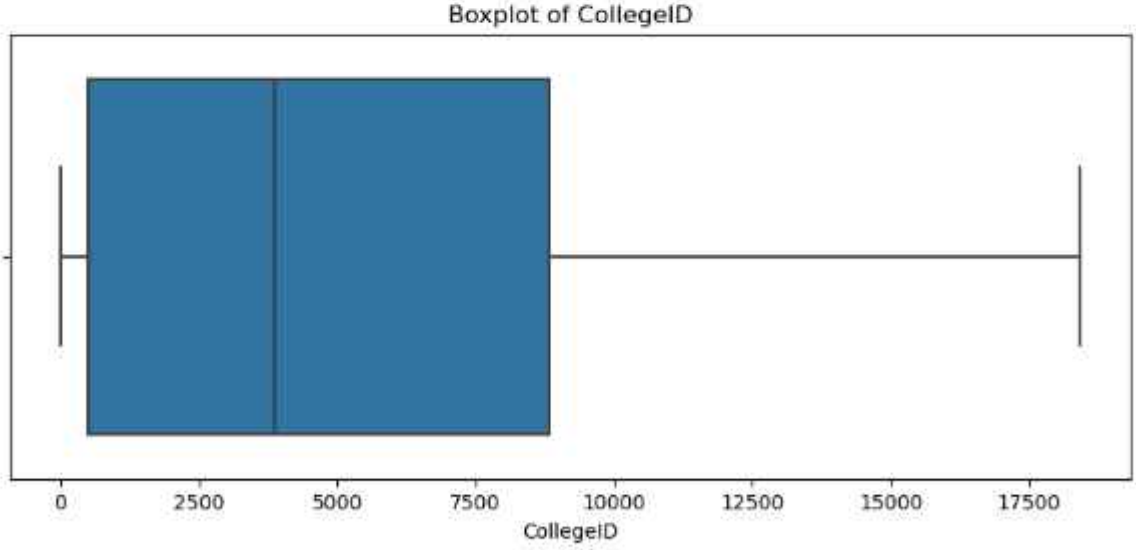

Boxplot of ID
0.0
0.2
0.4
0.6
0.8
1.0
1.2
ID
1e6

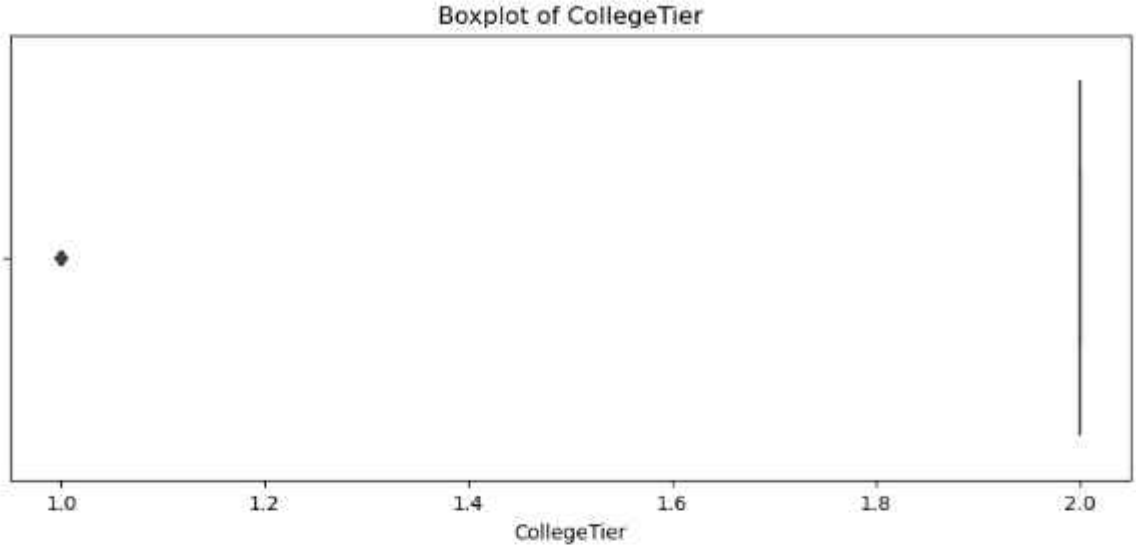

Boxplot of Salary
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Salary
1e6

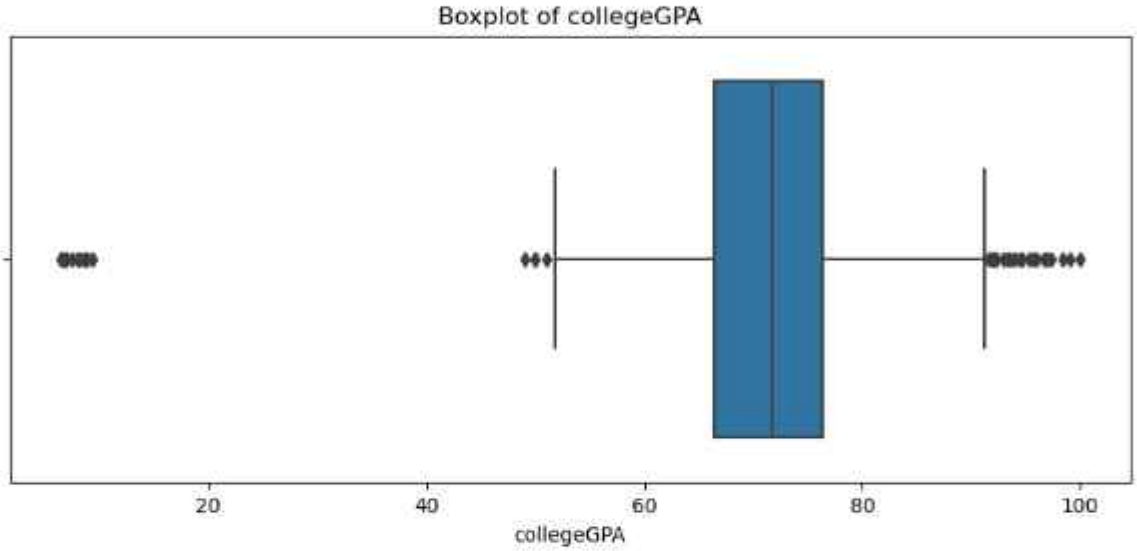

Boxplot of 10percentage
50
60
70
80
90
100
10percentage

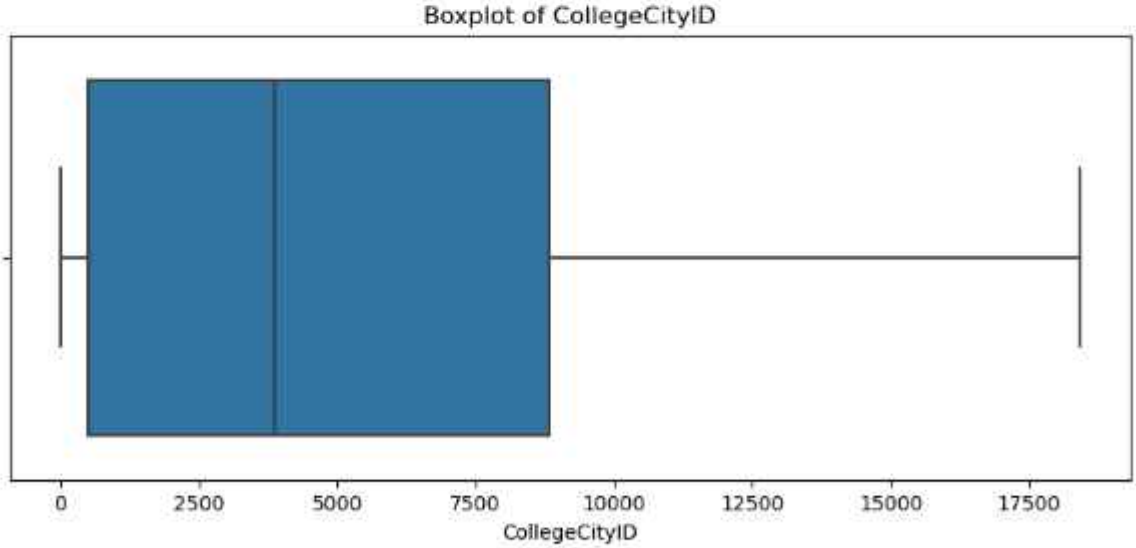

Boxplot of 12graduation
1995.0
1997.5
2000.0
2002.5
2005.0
2007.5
2010.0
2012.5
12graduation

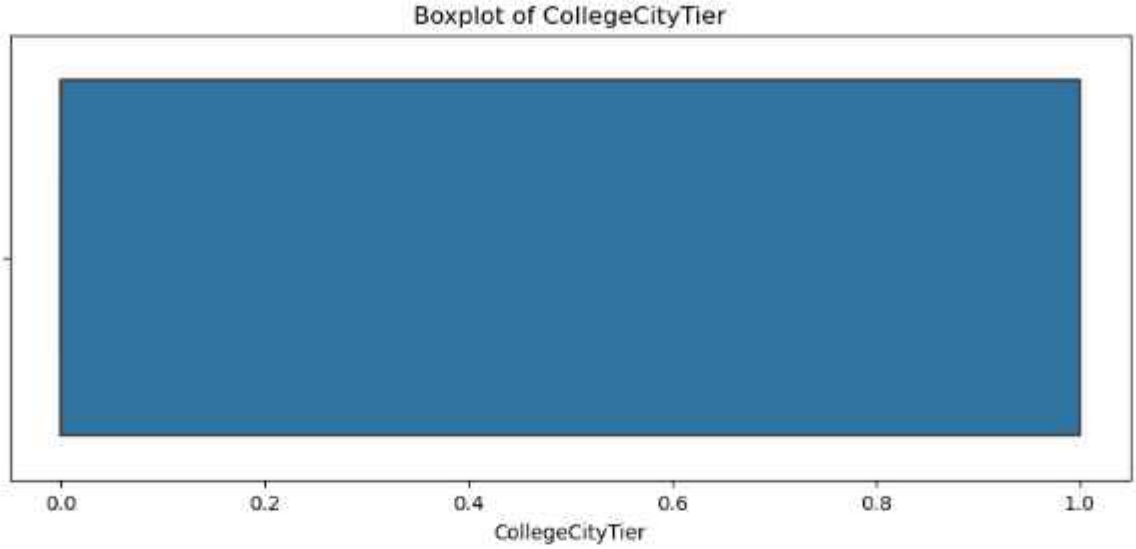

Boxplot of 12percentage
40
50
60
70
80
90
100
12percentage

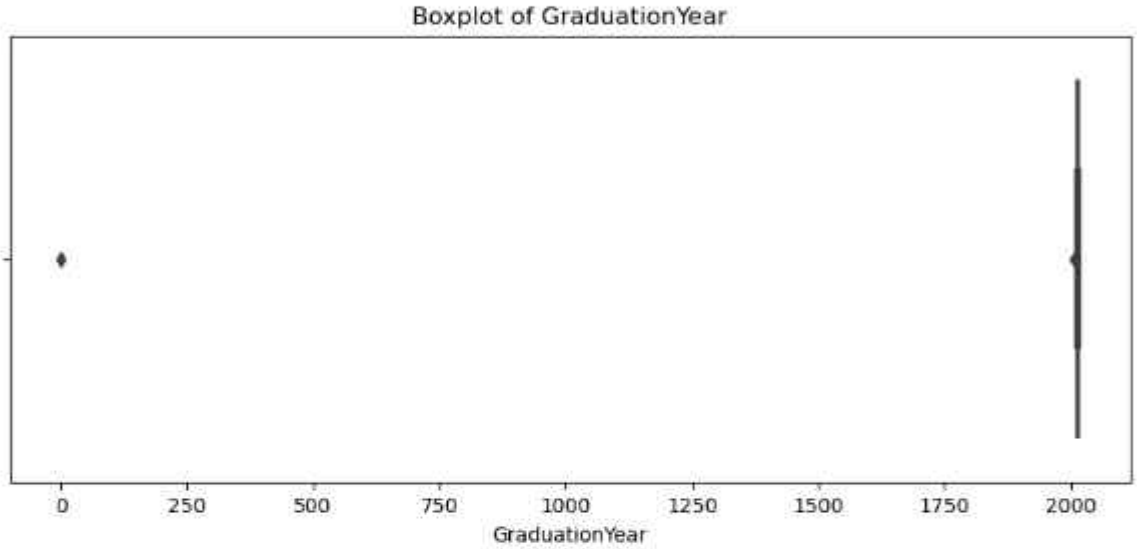

Boxplot of CollegeID
0
2500
5000
7500
10000
12500
15000
17500
CollegeID

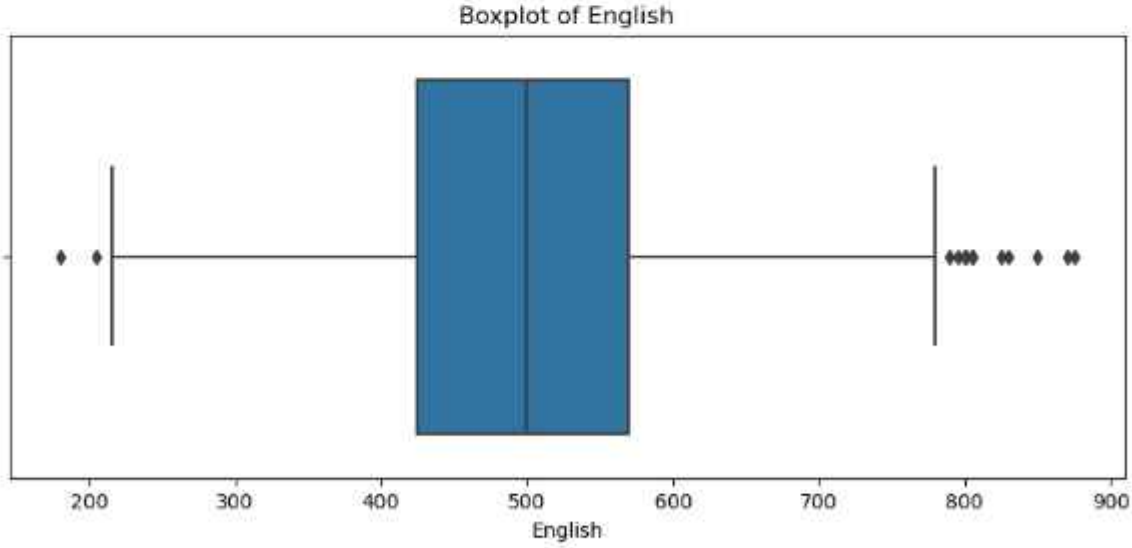

Boxplot of CollegeTier
1.0
1.2
1.4
1.6
1.8
2.0
CollegeTier

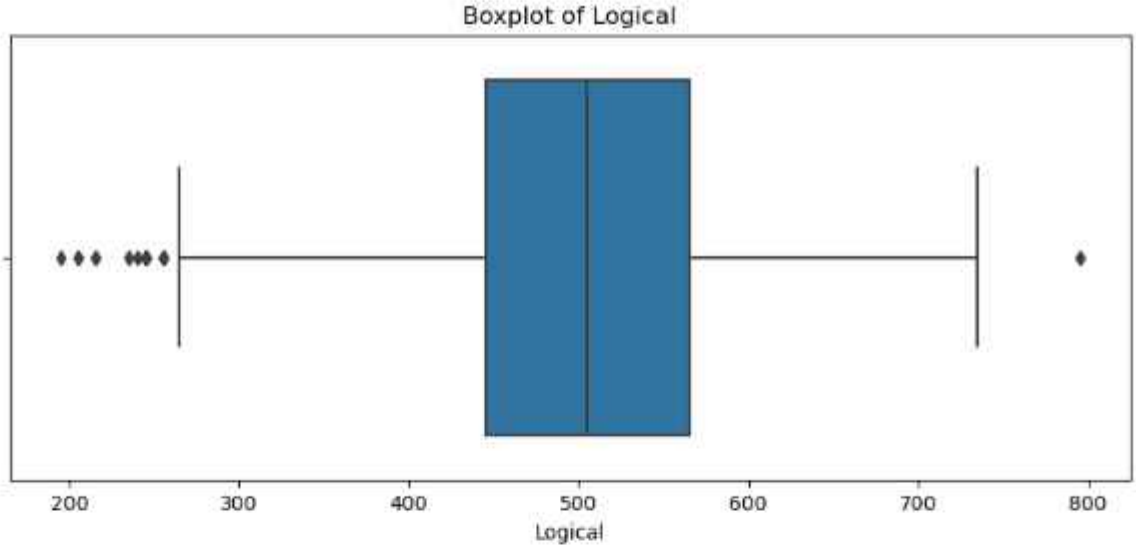

Boxplot of collegeGPA
20
40
60
80
100
collegeGPA

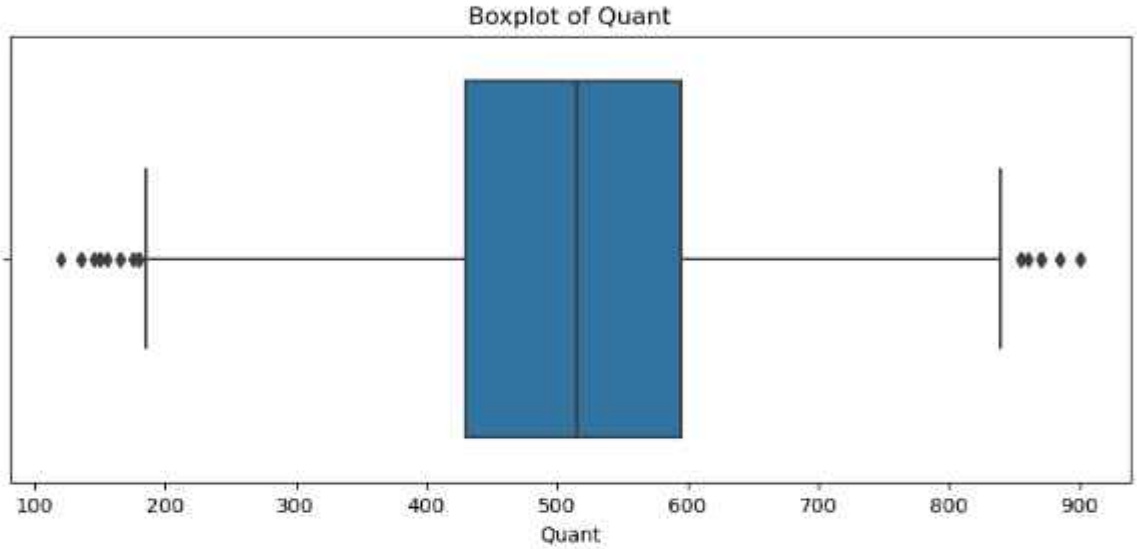

Boxplot of CollegeCityID
0
2500
5000
7500
10000
12500
15000
17500
CollegeCityID

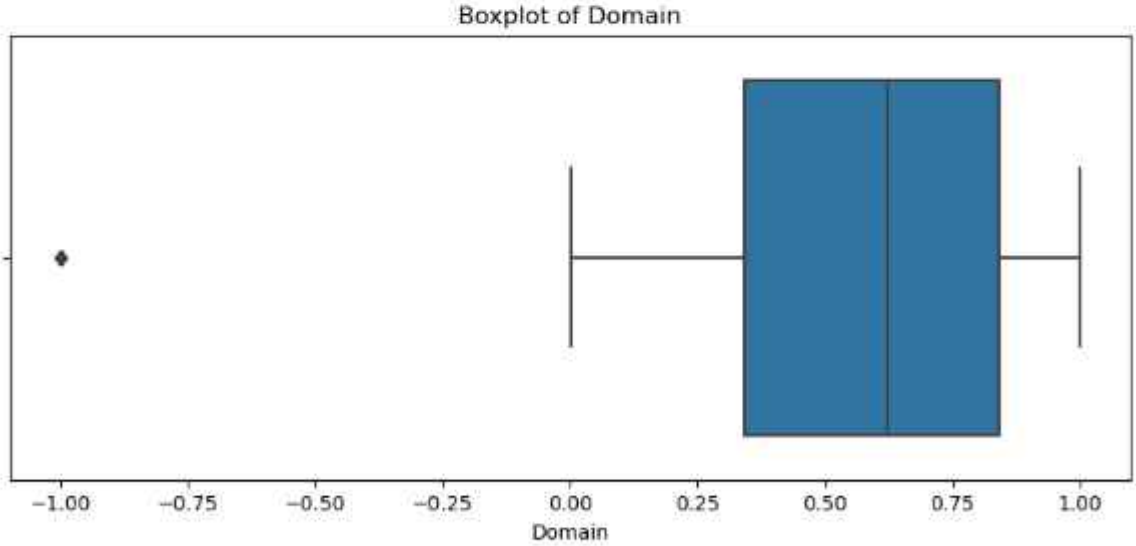

Boxplot of CollegeCityTier
0.0
0.2
0.4
0.6
0.8
1.0
CollegeCityTier

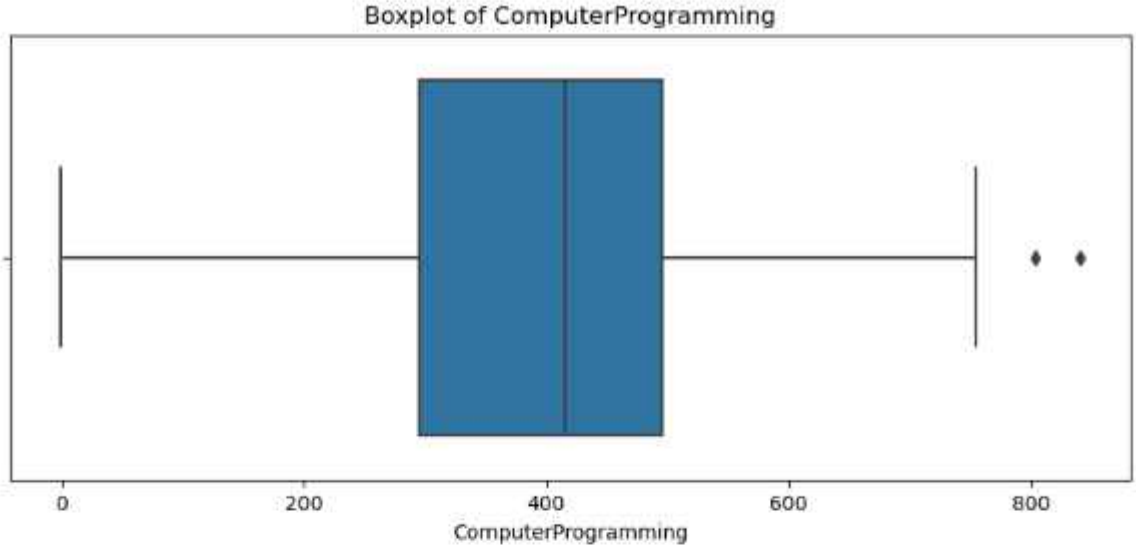

Boxplot of GraduationYear
0
250
500
750
1000
1250
1500
1750
2000
GraduationYear

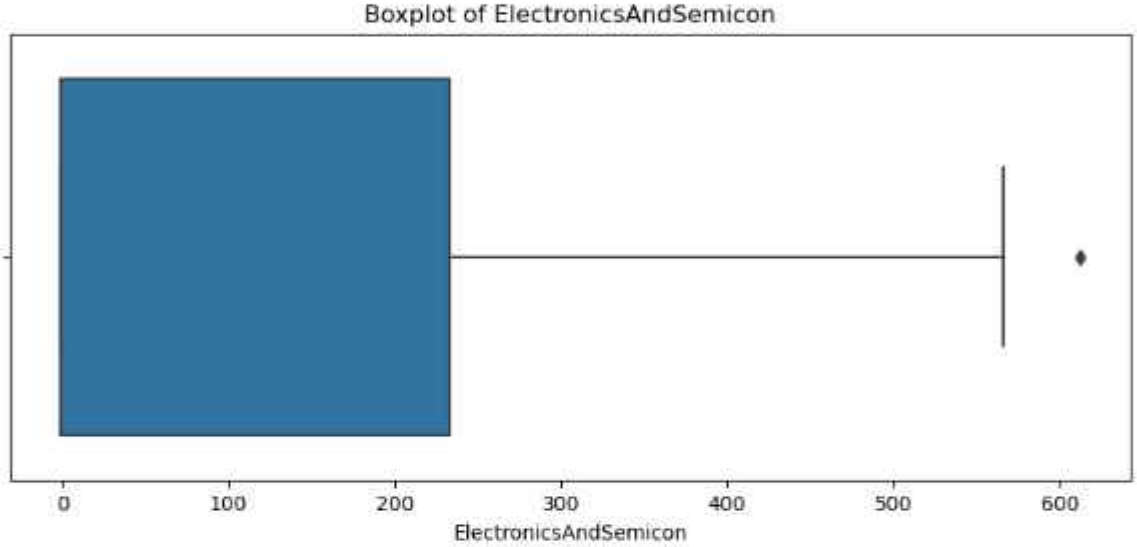

Boxplot of English
200
300
400
500
600
700
800
900
English

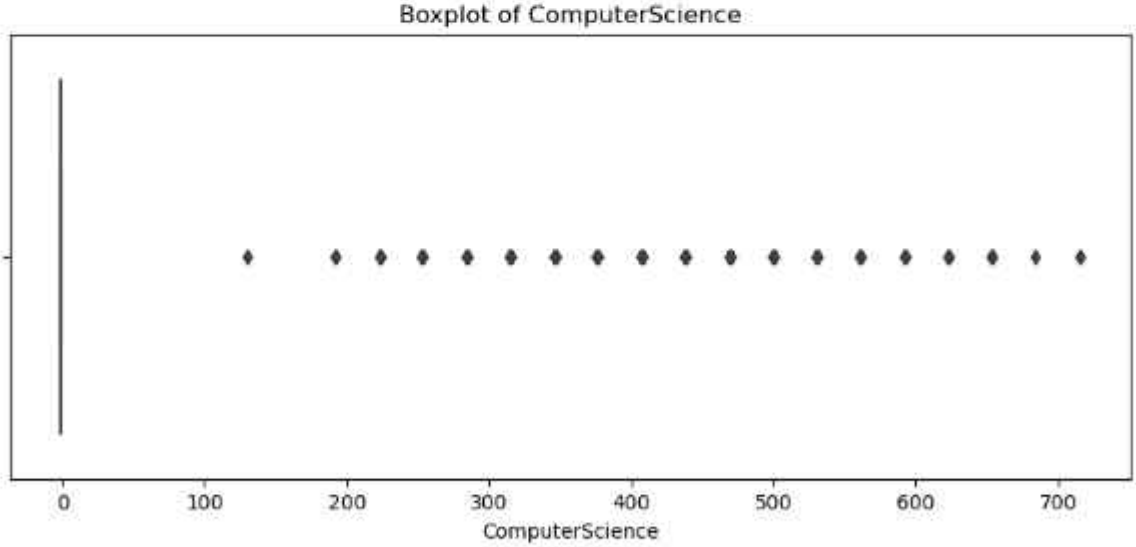

Boxplot of Logical
200
300
400
500
600
700
800
Logical

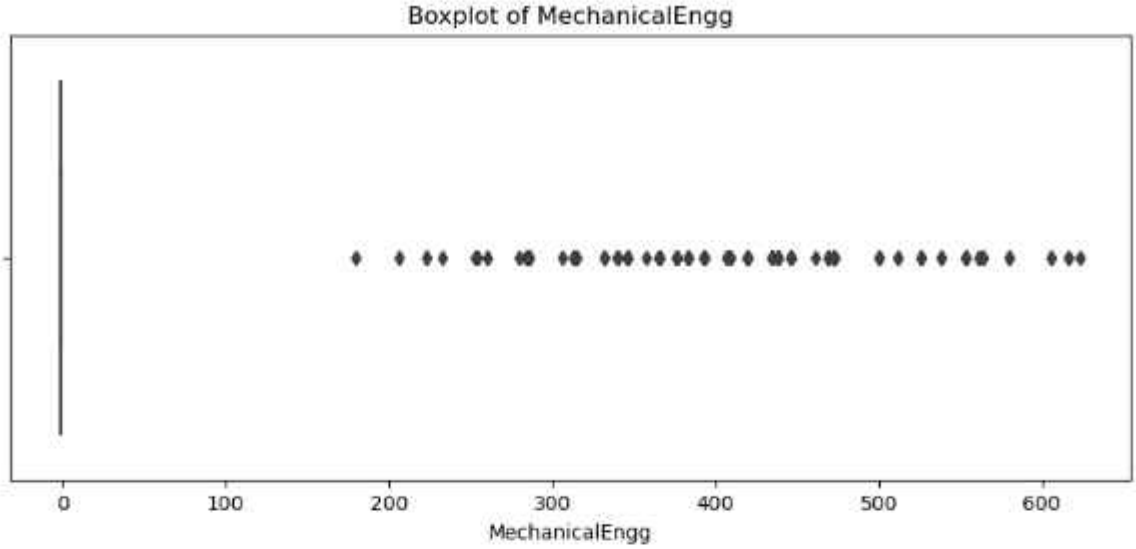

Boxplot of Quant
100
200
300
400
500
600
700
800
900
Quant

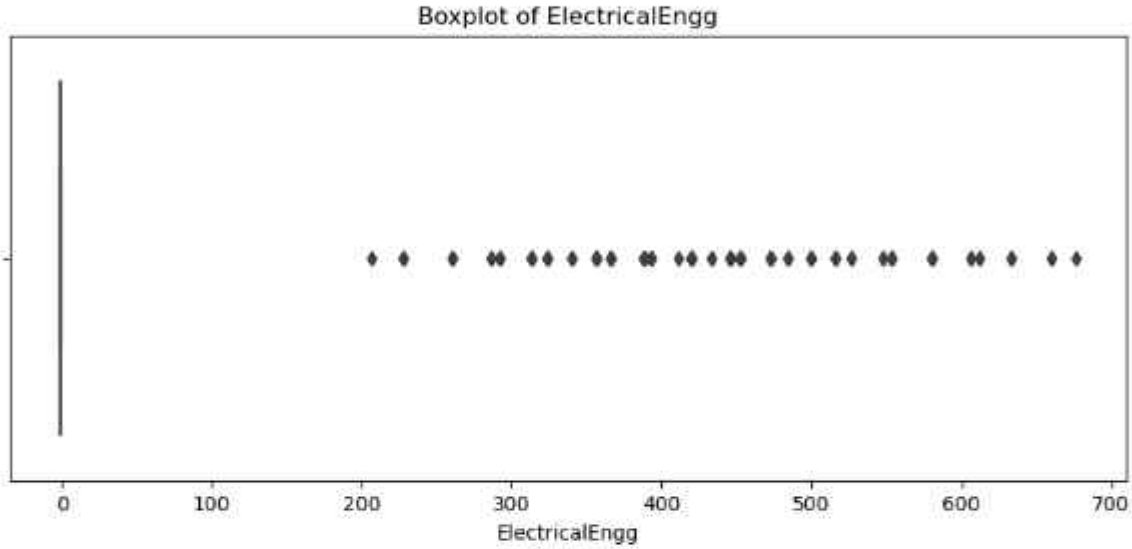

Boxplot of Domain
−1.00
−0.75
−0.50
−0.25
0.00
0.25
0.50
0.75
1.00
Domain

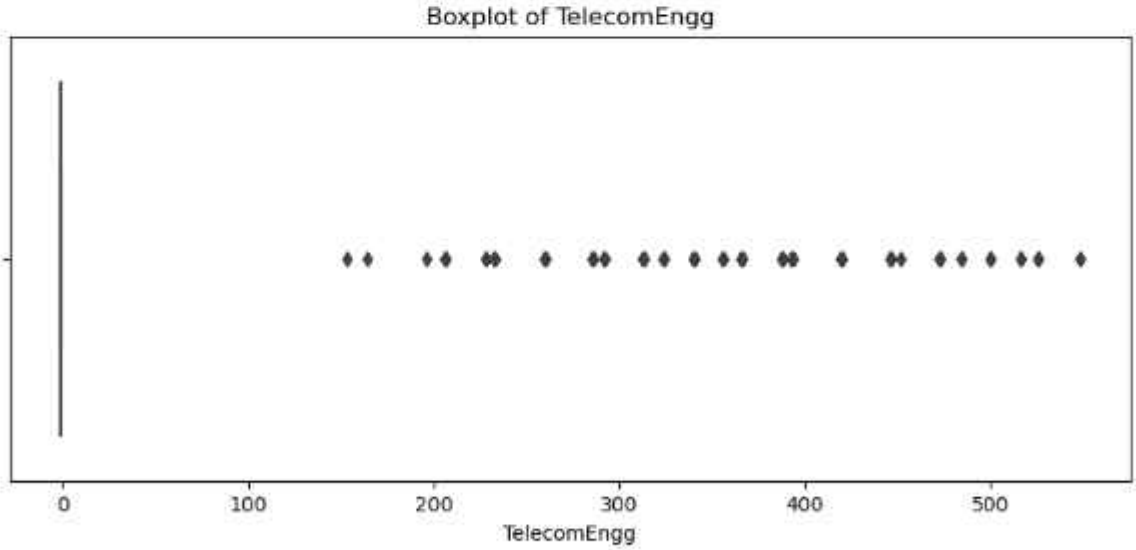

Boxplot of ComputerProgramming
0
200
400
600
800
ComputerProgramming

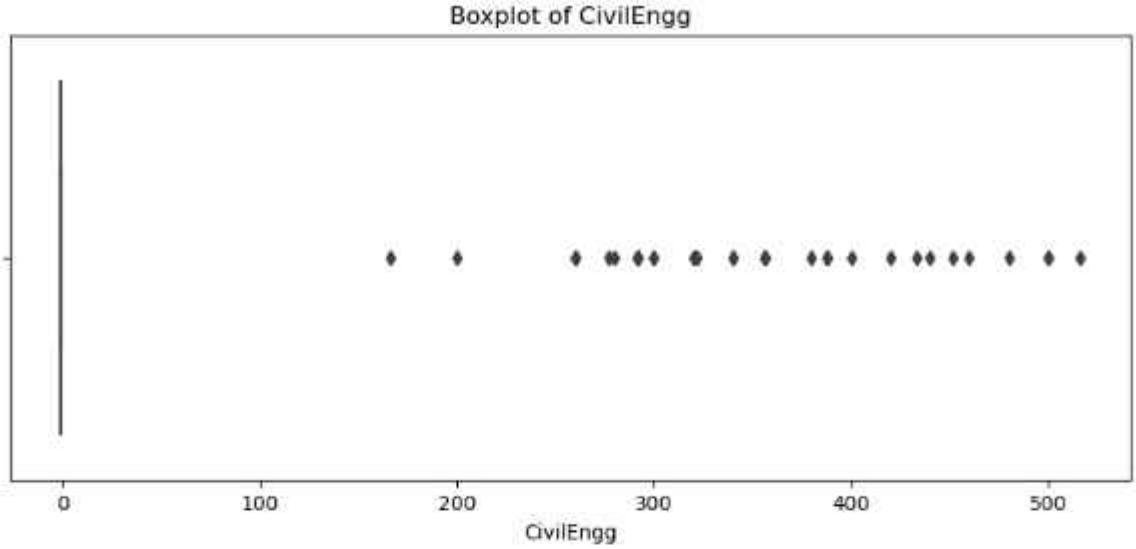

Boxplot of ElectronicsAndSemicon
0
100
200
300
400
500
600
ElectronicsAndSemicon

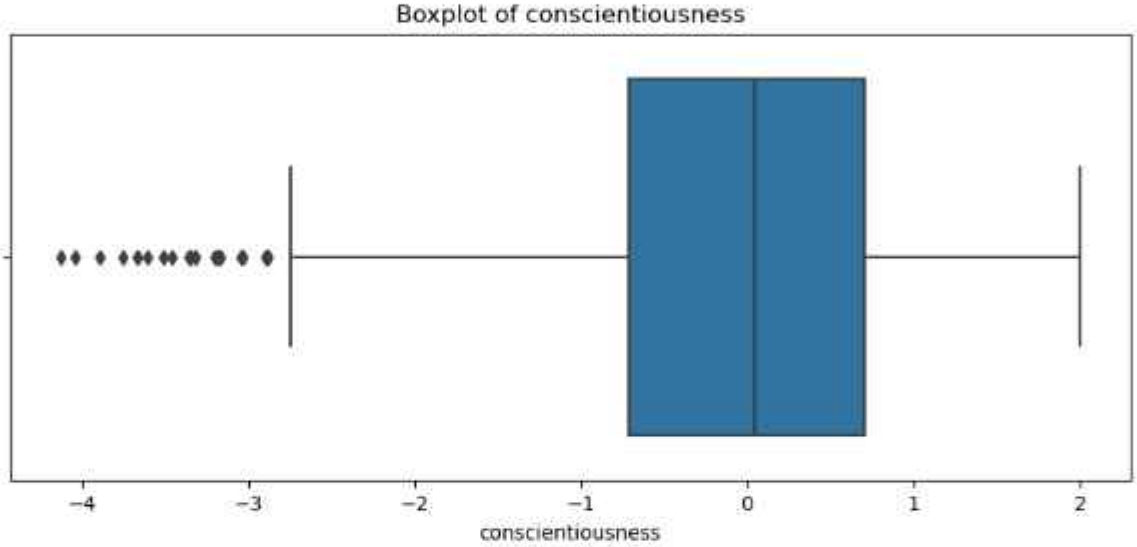

Boxplot of ComputerScience
0
100
200
300
400
500
600
700
ComputerScience

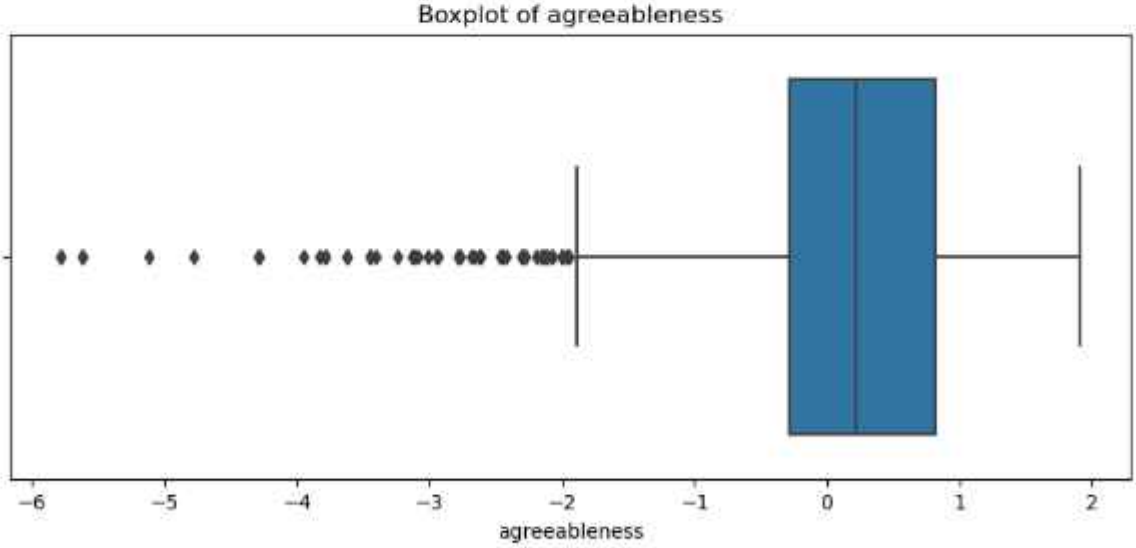

Boxplot of MechanicalEngg
0
100
200
300
400
500
600
MechanicalEngg

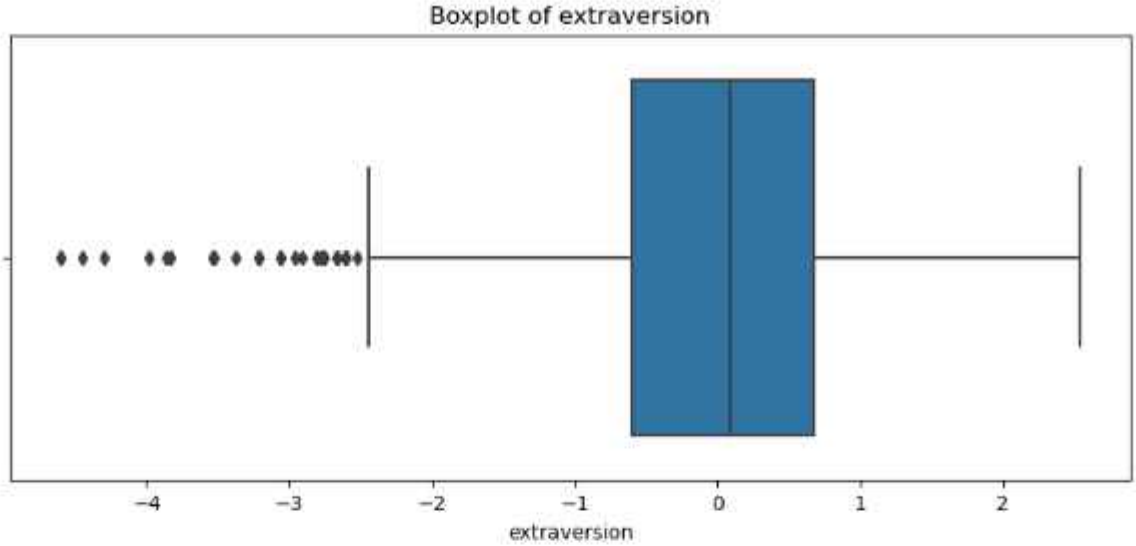

Boxplot of ElectricalEngg
0
100
200
300
400
500
600
700
ElectricalEngg

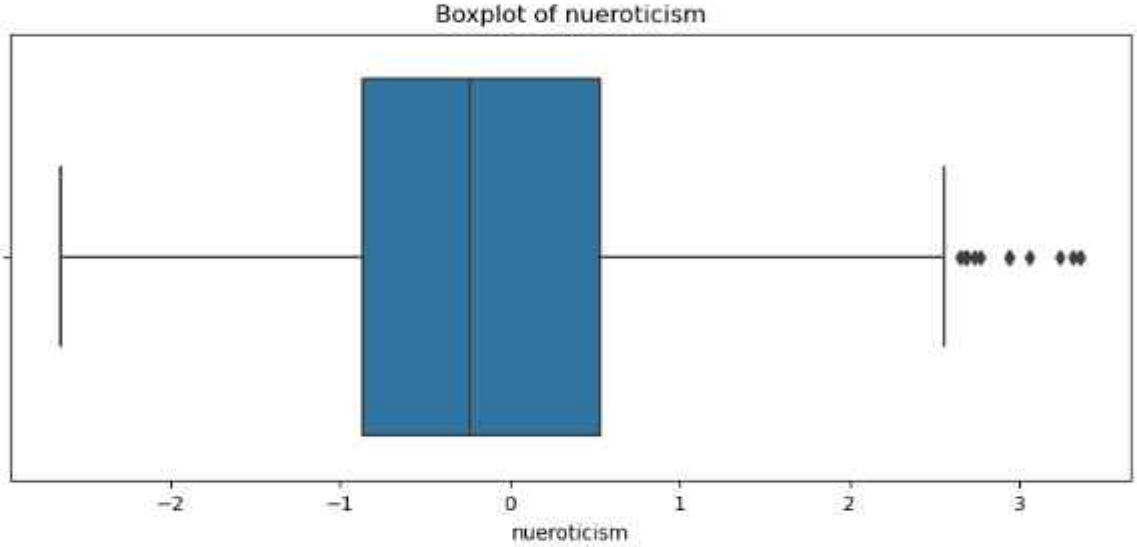

Boxplot of TelecomEngg
0
100
200
300
400
500
TelecomEngg

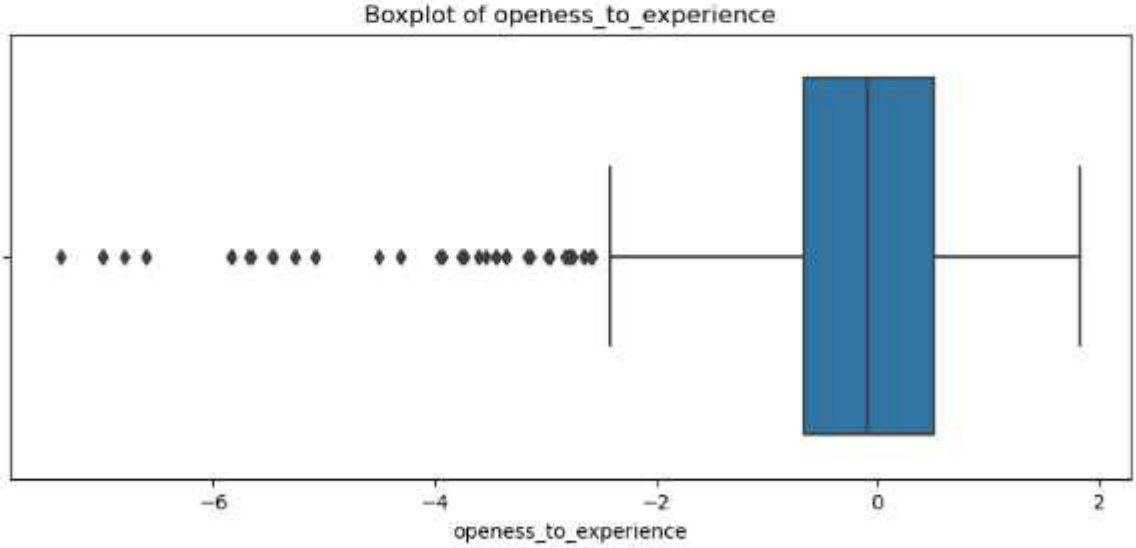

Boxplot of CivilEngg
0
100
200
300
400
500
CivilEngg


Boxplot of conscientiousness
−4
−3
−2
−1
0
1
2
conscientiousness


Boxplot of agreeableness
−6
−5
−4
−3
−2
−1
0
1
2
agreeableness







Identifying outliers using IQR (Interquartile Range) method

In [10]:
```
for col in numerical_cols:
    Q1 = df[col].quantile(0.25)
    Q3 = df[col].quantile(0.75)
    IQR = Q3 - Q1
    lower_bound = Q1 - 1.5 * IQR
    upper_bound = Q3 + 1.5 * IQR
    outliers = df[(df[col] < lower_bound) | (df[col] > upper_bound)][col]
    print(f"\nOutliers in {col}:\n", outliers)
```

```
Outliers in ID:
 Series([], Name: ID, dtype: int64)

Outliers in Salary:
 3       1100000.0
76       800000.0
92      1500000.0
123     1200000.0
128      675000.0
          ...
3823     775000.0
3904     850000.0
3912     730000.0
3961     700000.0
3992     800000.0
Name: Salary, Length: 109, dtype: float64

Outliers in 10percentage:
 245     50.60
466     44.16
490     44.00
491     45.60
502     48.00
600     49.00
613     48.00
898     49.00
919     48.80
1064    49.00
1102    49.00
1169    48.50
1193    48.00
1235    50.60
1334    43.00
1838    50.00
1845    49.00
1955    45.33
1976    46.24
2037    48.00
2215    50.50
2292    50.00
2432    50.00
2655    50.66
2885    46.80
2982    50.00
3284    50.00
3425    50.00
3690    46.00
3743    49.90
Name: 10percentage, dtype: float64

Outliers in 12graduation:
 59      1995
193     2003
528     2003
584     2003
600     2003
670     2003
712     2003
772     2003
```

```
828     2003
890     2002
1083    2001
1169    2002
1178    2003
1404    2003
1420    2002
1502    2002
1528    1998
1866    2003
1873    2013
1883    2001
1927    2003
1982    2003
2009    2003
2217    2003
2358    2003
2409    2002
2606    2002
2674    2002
2746    2002
2747    2003
3015    2003
3193    2003
3237    2003
3278    1999
3292    2002
3308    2003
3322    2003
3337    2002
3431    2003
3516    2002
3655    2003
3690    2002
3743    2002
3796    2003
3921    2002
Name: 12graduation, dtype: int64

Outliers in 12percentage:
 3337    40.0
Name: 12percentage, dtype: float64

Outliers in CollegeID:
 Series([], Name: CollegeID, dtype: int64)

Outliers in CollegeTier:
 3       1
7       1
8       1
11      1
32      1
       ..
3912    1
3913    1
3914    1
3972    1
3979    1
Name: CollegeTier, Length: 297, dtype: int64
```

```
Outliers in collegeGPA:
 7        8.58
44      92.10
138      6.63
187     93.00
477     92.00
614     93.60
690     99.93
788      6.80
874     94.50
907     50.00
1029    92.30
1134    96.00
1264    97.30
1345    93.30
1419     6.85
1439     8.07
1510    96.70
1685    94.70
1767     7.56
2151     6.95
2152    95.30
2229     8.13
2293     9.30
2463    92.00
2662     8.88
2691     8.89
2703    94.00
2836    49.07
2880    92.00
2988    94.60
3151    98.40
3276    95.70
3293    51.00
3308     6.45
3323    96.90
3448    50.00
3833    91.60
3850    99.00
Name: collegeGPA, dtype: float64

Outliers in CollegeCityID:
 Series([], Name: CollegeCityID, dtype: int64)

Outliers in CollegeCityTier:
 Series([], Name: CollegeCityTier, dtype: int64)

Outliers in GraduationYear:
 2664       0
3193    2007
Name: GraduationYear, dtype: int64

Outliers in English:
 275     875
444     825
668     870
839     790
847     800
```

```
935     205
1183    805
1217    180
1450    830
1519    795
2077    800
2122    800
2385    805
2596    805
3044    850
Name: English, dtype: int64

Outliers in Logical:
 101     255
133     205
207     245
345     215
628     215
1014    795
1160    255
1439    245
2141    255
2265    255
2796    240
2830    195
2891    245
3119    245
3159    245
3784    205
3876    235
3953    245
Name: Logical, dtype: int64

Outliers in Quant:
 195     870
522     165
564     180
698     860
783     180
899     870
1148    175
1310    870
1661    870
1815    135
2007    855
2134    145
2155    870
2411    885
2437    120
2490    900
2616    135
2932    165
2957    900
2988    885
3165    855
3239    855
3258    150
3283    150
3616    155
```

```
Name: Quant, dtype: int64

Outliers in Domain:
 5      -1.0
14     -1.0
16     -1.0
22     -1.0
35     -1.0
       ...
3942   -1.0
3958   -1.0
3960   -1.0
3969   -1.0
3978   -1.0
Name: Domain, Length: 246, dtype: float64

Outliers in ComputerProgramming:
 64      804
1711    840
Name: ComputerProgramming, dtype: int64

Outliers in ElectronicsAndSemicon:
 1557    612
3889    612
Name: ElectronicsAndSemicon, dtype: int64

Outliers in ComputerScience:
 5       407
6       346
14      376
17      500
24      346
       ...
3972    407
3976    561
3981    530
3989    346
3996    438
Name: ComputerScience, Length: 902, dtype: int64

Outliers in MechanicalEngg:
 7       469
26      313
40      286
45      253
59      366
       ...
3909    420
3916    393
3929    383
3951    407
3980    473
Name: MechanicalEngg, Length: 235, dtype: int64

Outliers in ElectricalEngg:
 53      484
70      606
124     393
125     500
```

```
180     553
       ...
3832    660
3835    356
3837    366
3839    606
3844    580
Name: ElectricalEngg, Length: 161, dtype: int64

Outliers in TelecomEngg:
 12      206
28      313
57      420
62      260
81      393
       ...
3937    233
3938    340
3954    393
3990    233
3991    393
Name: TelecomEngg, Length: 374, dtype: int64

Outliers in CivilEngg:
 26      320
59      400
172     388
211     320
222     260
331     440
403     356
453     356
492     292
493     500
505     200
605     300
607     388
896     500
1108    452
1217    322
1253    340
1282    260
1439    260
1583    166
1678    388
1858    277
1879    356
1880    356
2242    516
2363    380
2419    292
2469    320
2571    356
2591    433
2690    292
3015    300
3332    356
3513    292
3675    280
```

```
3790    340
3821    420
3865    292
3868    388
3905    292
3961    460
3992    480
Name: CivilEngg, dtype: int64

Outliers in conscientiousness:
 29     -3.1994
159    -2.8879
210    -3.1994
315    -3.6631
335    -3.6060
373    -3.3539
382    -3.3539
408    -3.3188
468    -2.8879
523    -3.1752
1211   -3.4624
1337   -3.0448
1353   -3.1752
1684   -3.3539
1687   -3.6631
1972   -2.8903
2005   -3.1994
2046   -3.1994
2101   -4.1267
2182   -3.3539
2223   -2.8903
2224   -2.8879
2377   -2.8879
2396   -2.8879
2569   -3.3539
3047   -3.1752
3150   -3.8933
3372   -3.1752
3407   -3.5085
3468   -2.8903
3473   -3.7496
3569   -3.0448
3629   -4.0369
3646   -3.1752
3650   -3.0315
3694   -3.3188
3697   -3.1994
3876   -2.8903
3910   -3.0448
Name: conscientiousness, dtype: float64

Outliers in agreeableness:
 23     -2.1186
43     -2.4516
63     -2.6847
67     -3.7836
157    -2.1186
         ...
3843   -2.1186
```

```
3855   -2.3073
3878   -2.4516
3939   -1.9521
3953   -2.0733
Name: agreeableness, Length: 123, dtype: float64

Outliers in extraversion:
 63     -2.6028
159    -3.2176
335    -4.6009
408    -3.5250
523    -3.0639
666    -3.2176
726    -2.7750
1169   -2.6662
1211   -4.6009
1217   -2.6028
1242   -2.9565
1353   -4.2935
1538   -3.0639
1566   -2.7565
1649   -3.5370
1728   -3.5250
1785   -2.6662
1789   -2.7565
1822   -2.7565
1860   -3.8636
2060   -3.0639
2224   -2.7565
2305   -2.9102
2377   -3.2176
2396   -3.2176
2403   -3.3713
3141   -2.6662
3150   -3.9861
3174   -2.6662
3202   -2.5210
3263   -2.8113
3273   -2.8113
3372   -3.0639
3434   -2.6028
3473   -3.8324
3548   -2.6028
3595   -2.6028
3674   -2.6028
3694   -4.4472
3778   -2.6028
Name: extraversion, dtype: float64

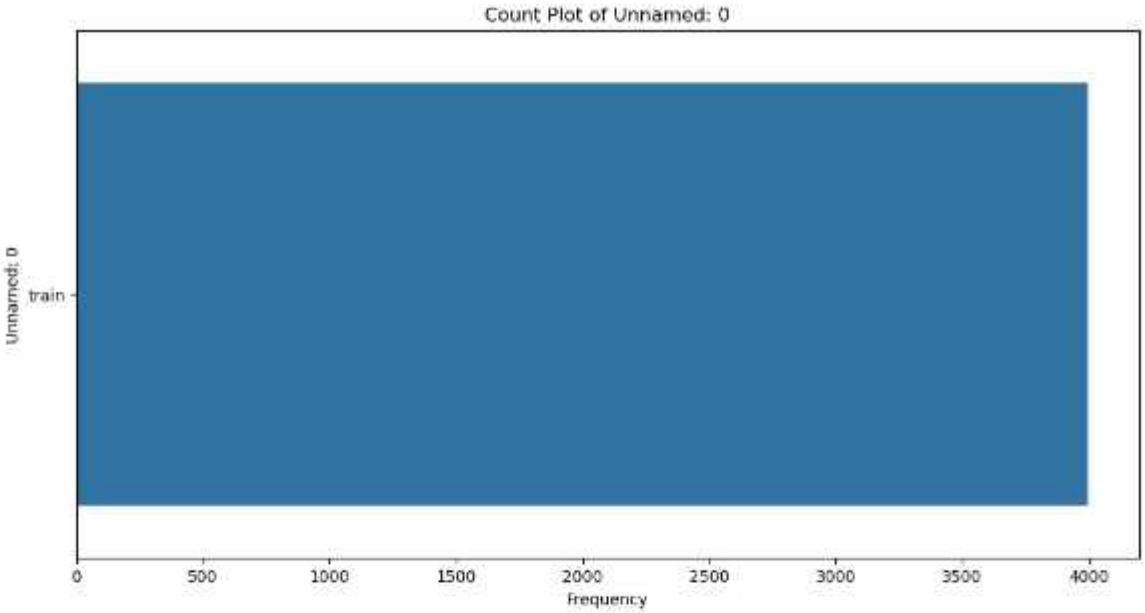
Outliers in nueroticism:
 222     2.6475
405     2.9349
1151    3.3525
1191    3.3525
1383    3.2350
1602    2.6814
1843    3.0617
2054    2.7650
2234    2.7356
```

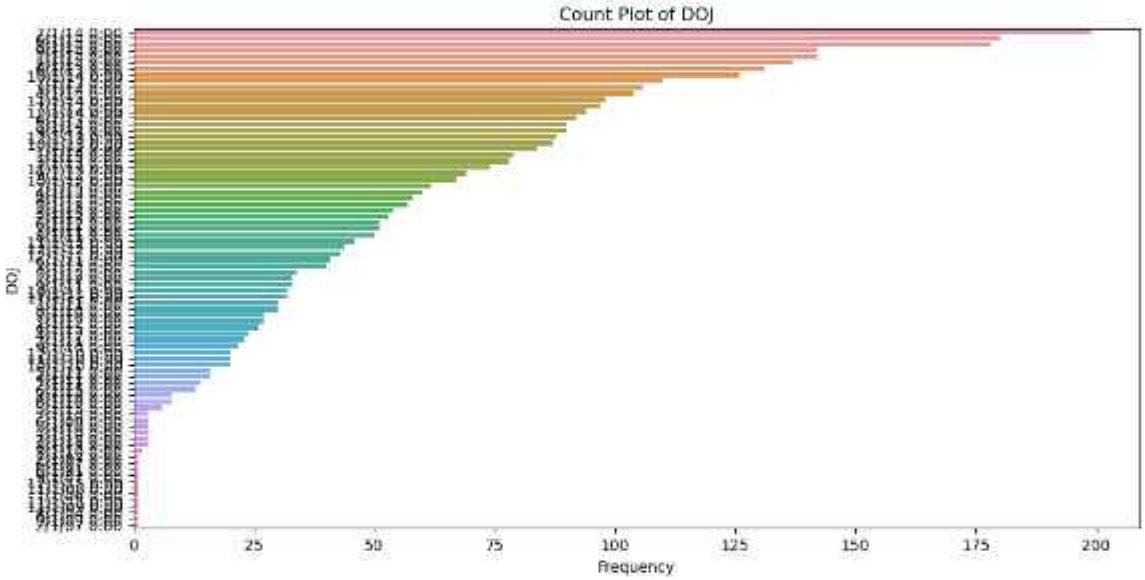
```
2275    2.9349
2608    2.6814
2859    3.3152
3089    2.6814
3384    2.6814
3880    2.9349
Name: nueroticism, dtype: float64

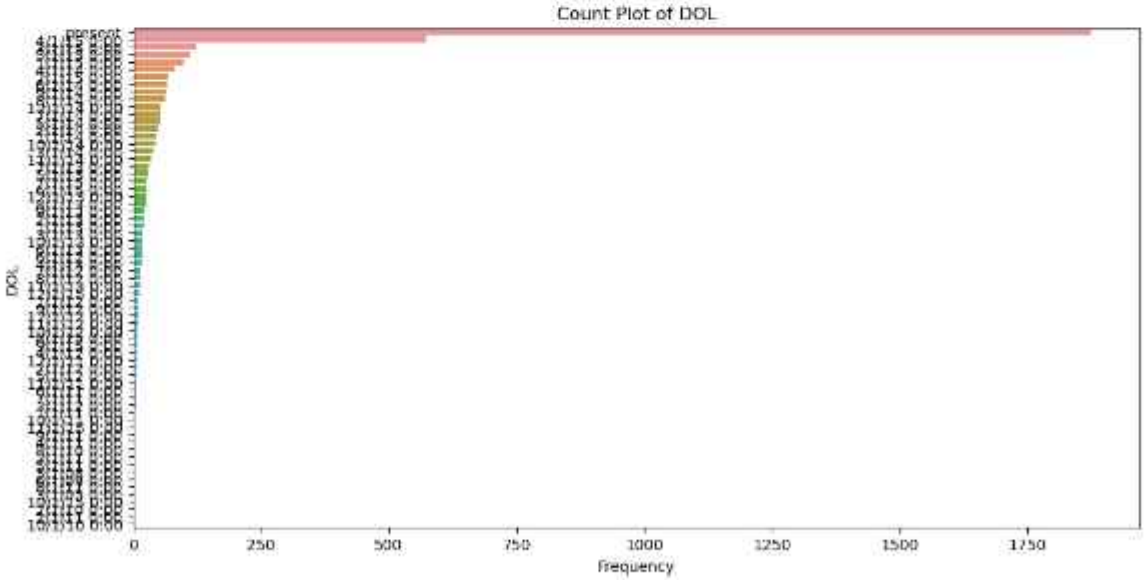
Outliers in openess_to_experience:
 22     -2.7769
23     -5.0763
43     -3.1602
63     -5.4770
128    -2.9731
         ...
3868   -2.5853
3892   -2.7769
3901   -2.7769
3918   -2.9686
3957   -2.9731
Name: openess_to_experience, Length: 95, dtype: float64
```

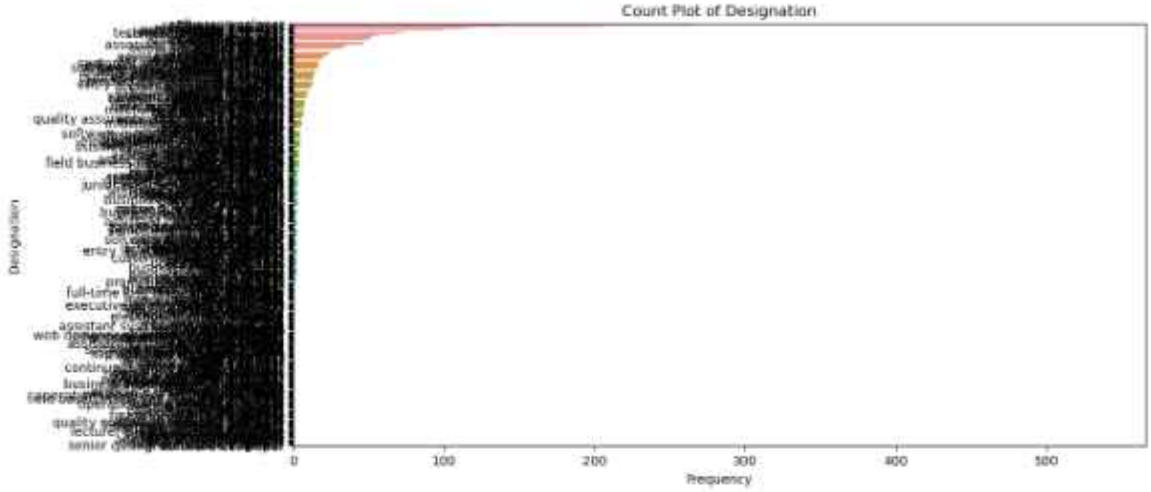
Countplots for categorical columns

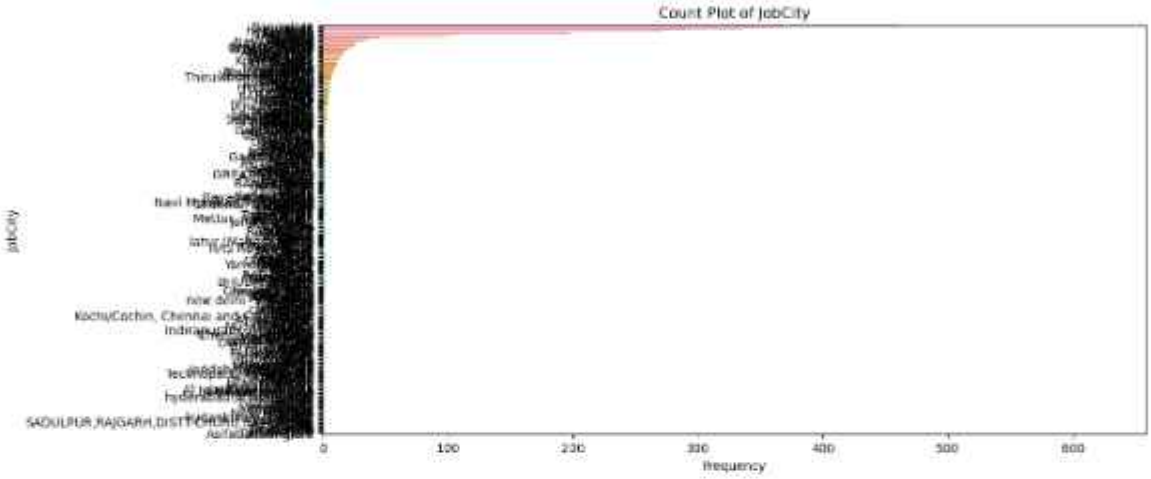
In [11]:
```
for col in categorical_cols:
    plt.figure(figsize=(12, 6))
    sns.countplot(y=col, data=df, order=df[col].value_counts().index)
    plt.title(f'Count Plot of {col}')
    plt.ylabel(col)
    plt.xlabel('Frequency')
    plt.show()
```

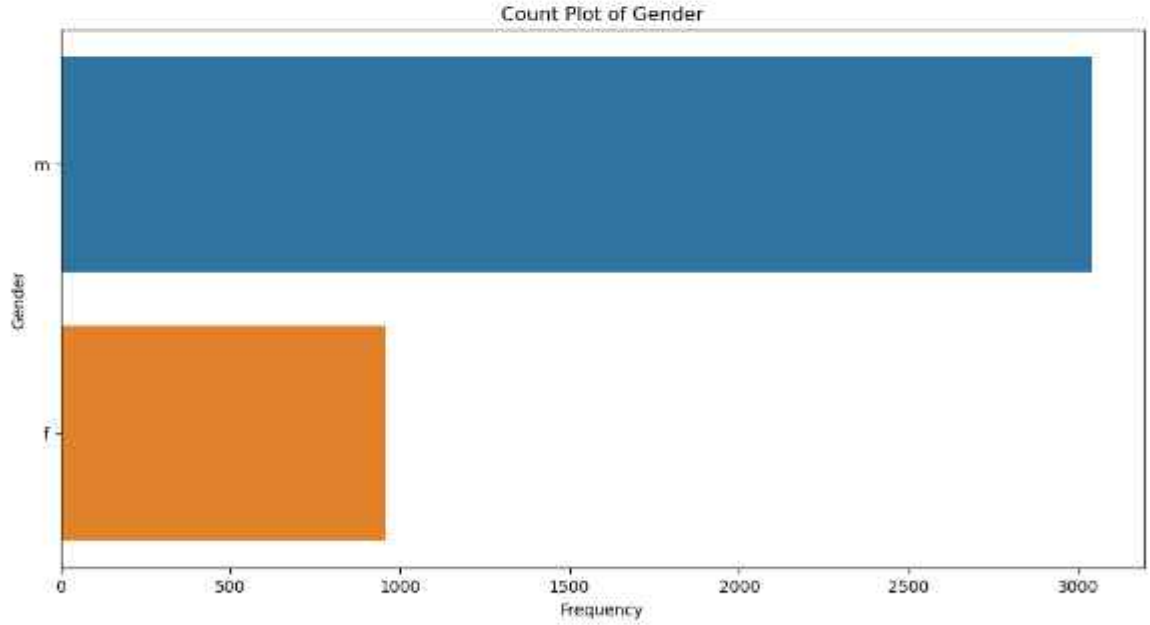

Count Plot of Unnamed: 0
Unnamed: 0
train
0
500
1000
1500
2000
2500
3000
3500
4000
Frequency

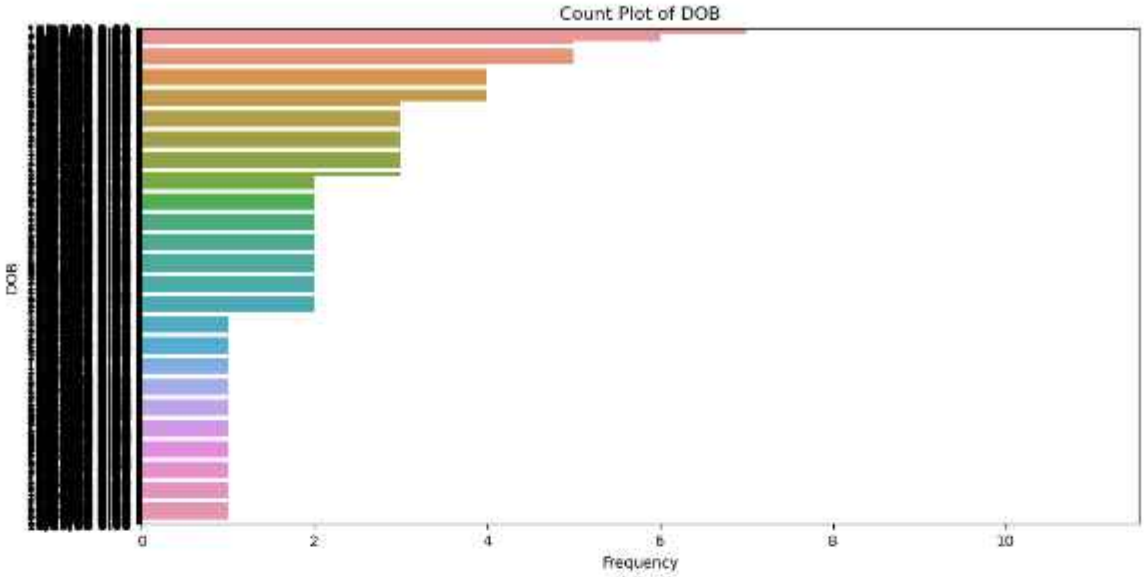

Count Plot of DOJ
DOJ
0
25
50
75
100
125
150
175
200
Frequency

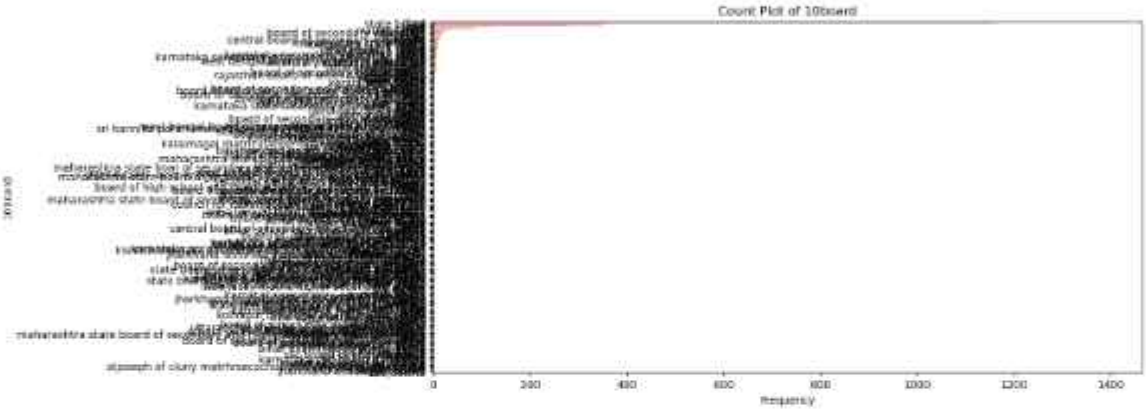

Count Plot of DOL
DOL
0
250
500
750
1000
1250
1500
1750
Frequency

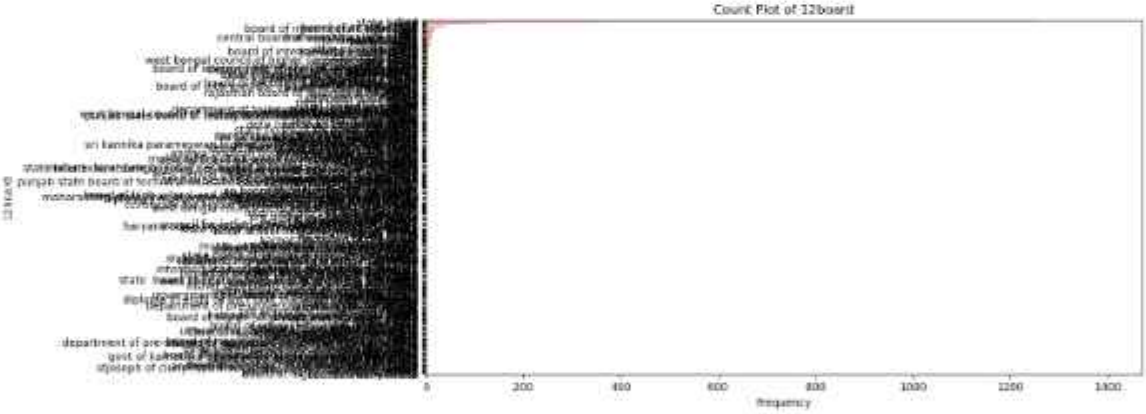

Count Plot of Designation
Designation
0
100
200
300
400
500
Frequency

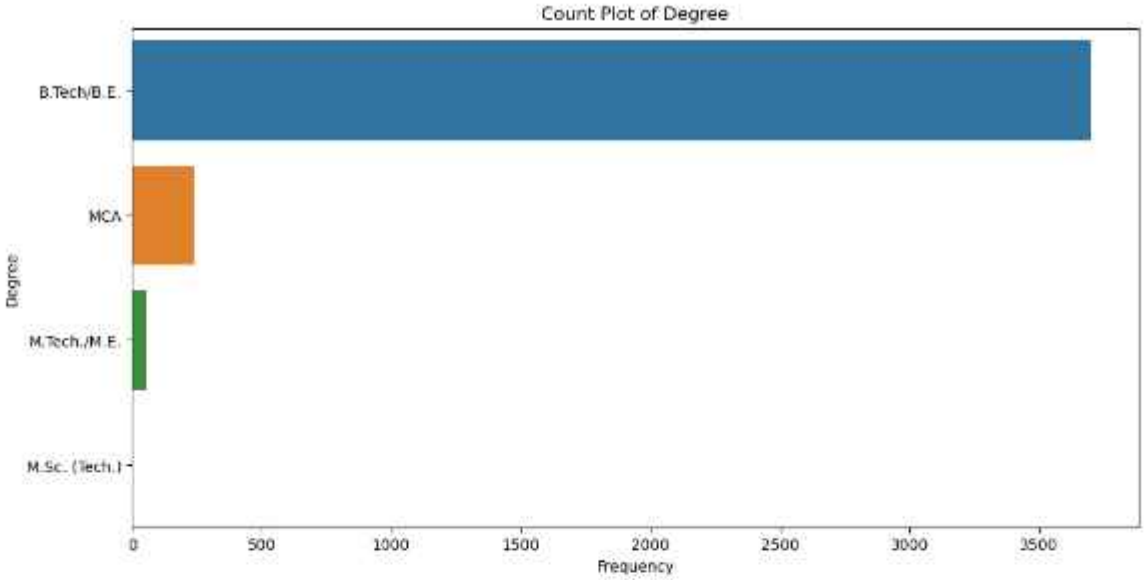

Count Plot of JobCity
JobCity
0
100
200
300
400
500
600
Frequency

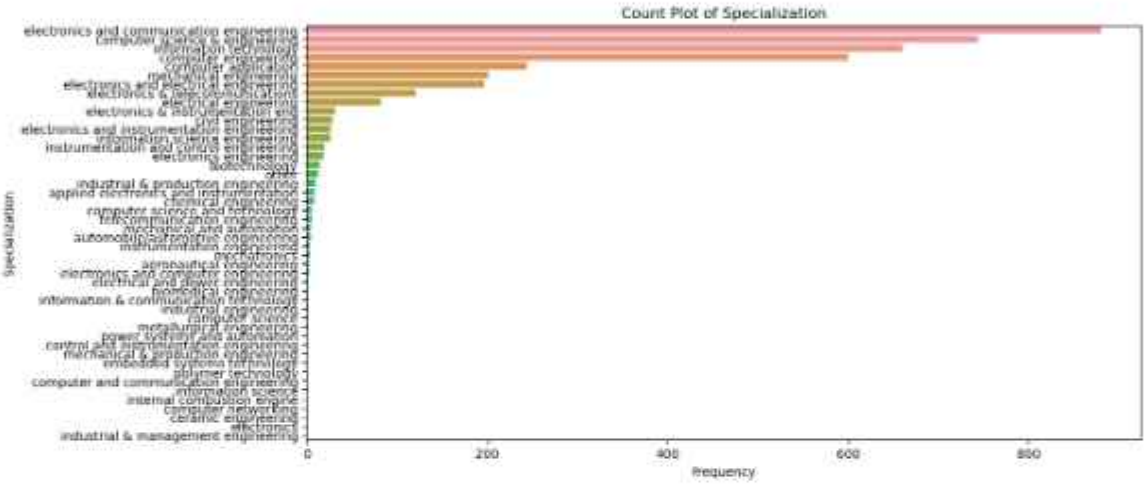

Count Plot of Gender
Gender
m
f
0
500
1000
1500
2000
2500
3000
Frequency

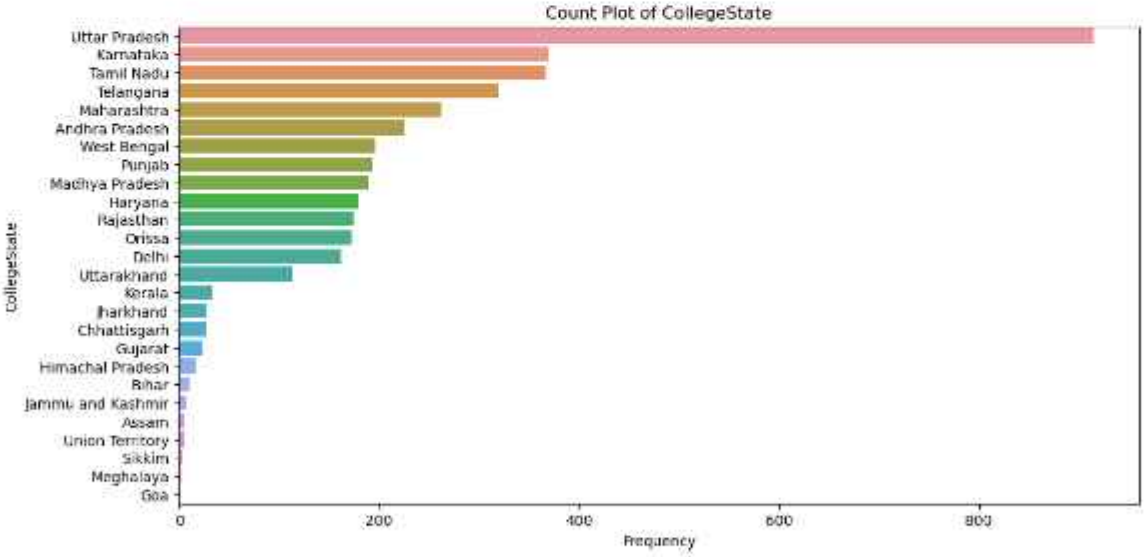

Count Plot of DOB
DOB
0
2
4
6
8
10
Frequency


Count Plot of 10board
10board
0
200
400
600
800
1000
1200
1400
Frequency


Count Plot of 12board
12board
0
200
400
600
800
1000
1200
1400
Frequency



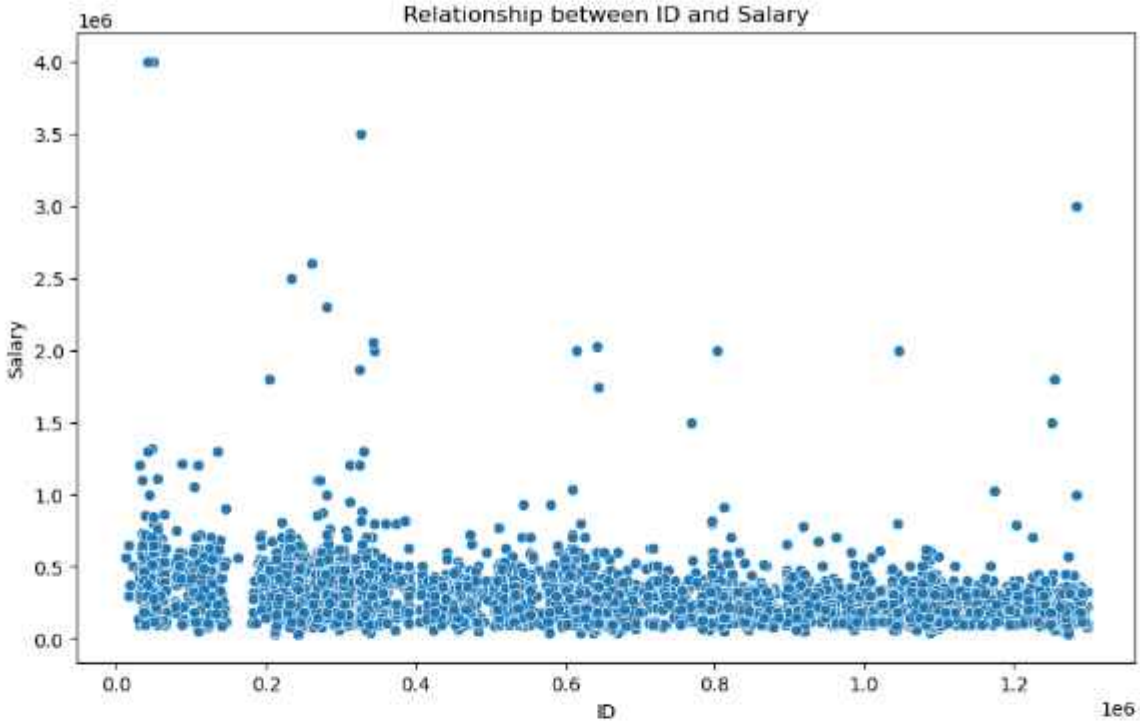


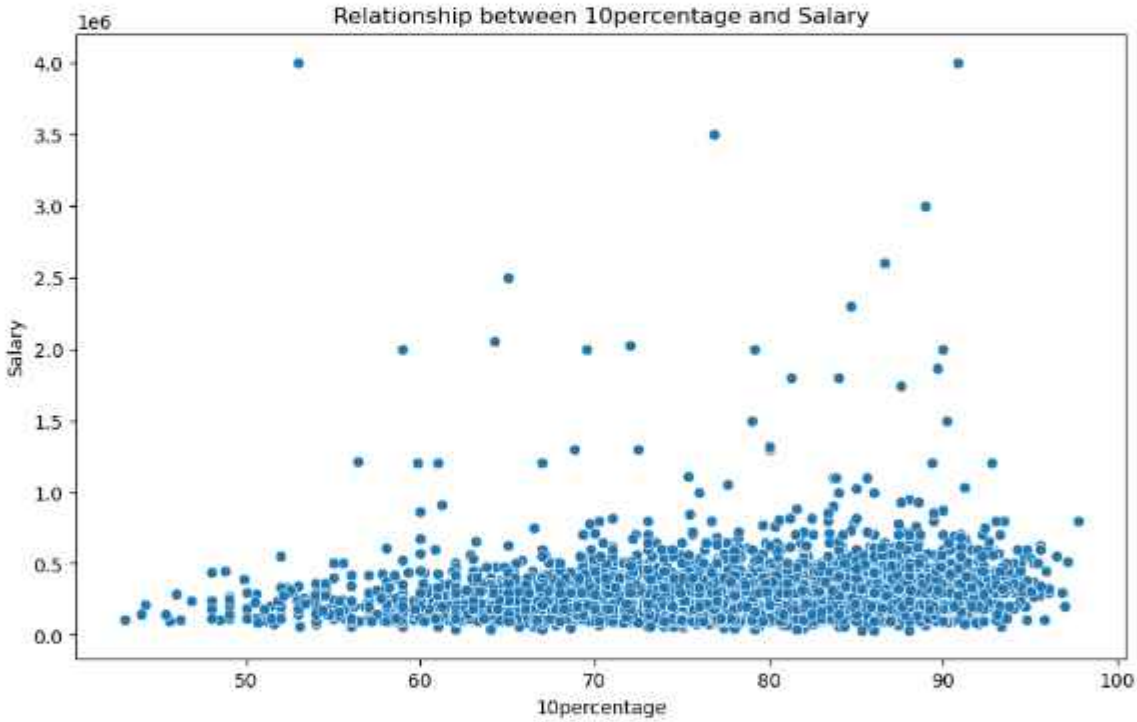


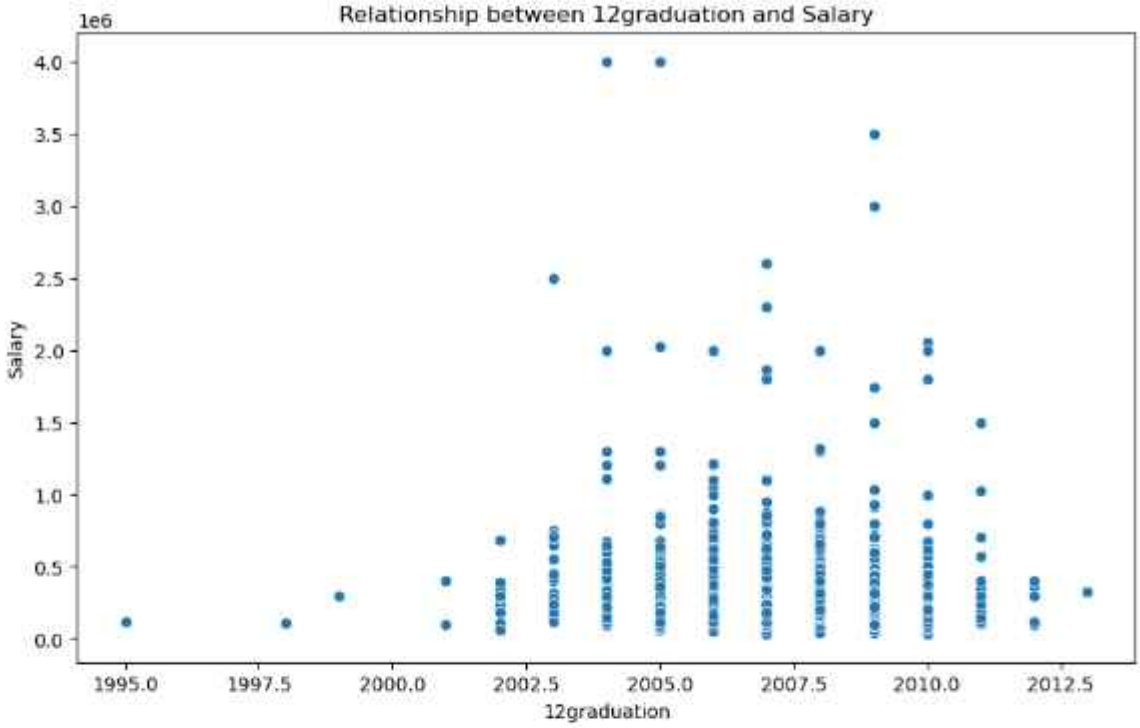
Step 4: Bivariate Analysis

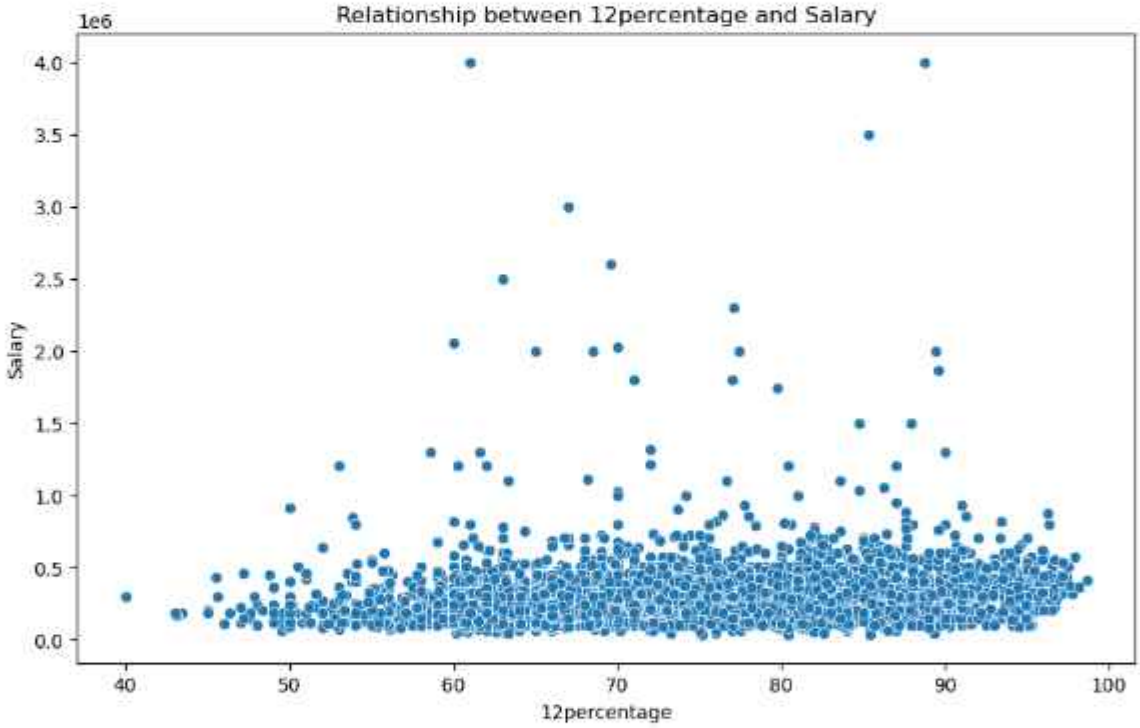
Scatter plot for numerical columns against the target variable 'Salary'

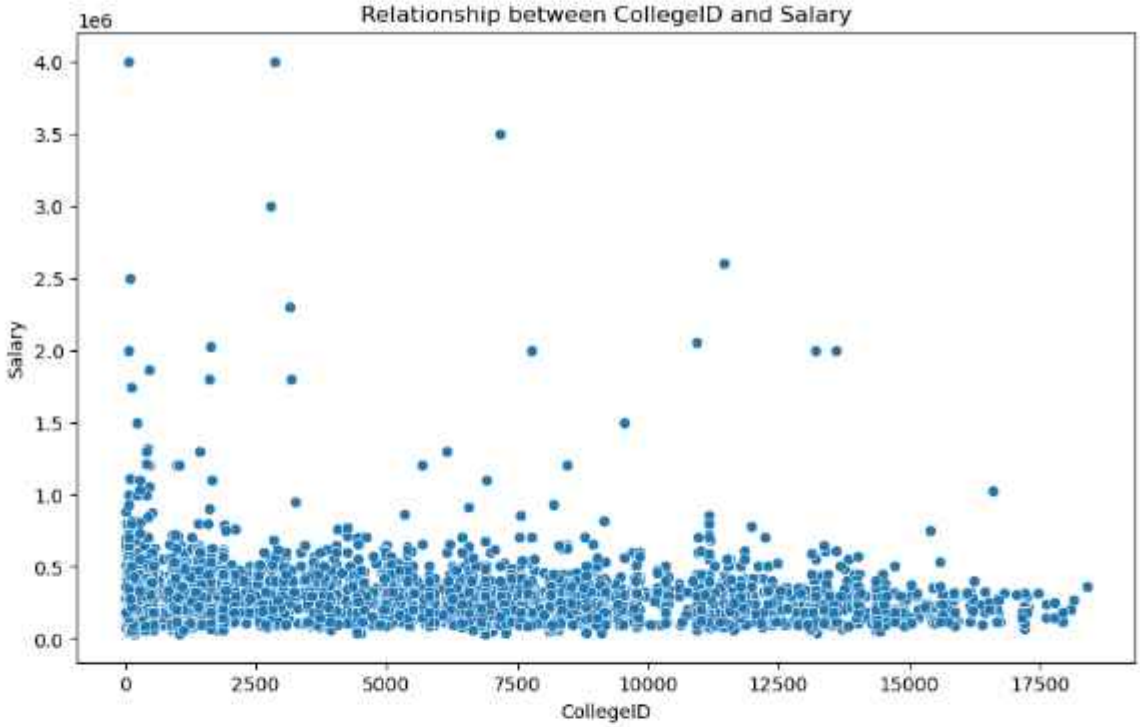
In [12]:
```
for col in numerical_cols:
    if col != 'Salary':  # Ensure Salary is not plotted against itself
        plt.figure(figsize=(10, 6))
        sns.scatterplot(x=df[col], y=df['Salary'])
        plt.title(f'Relationship between {col} and Salary')
        plt.xlabel(col)
        plt.ylabel('Salary')
        plt.show()
```

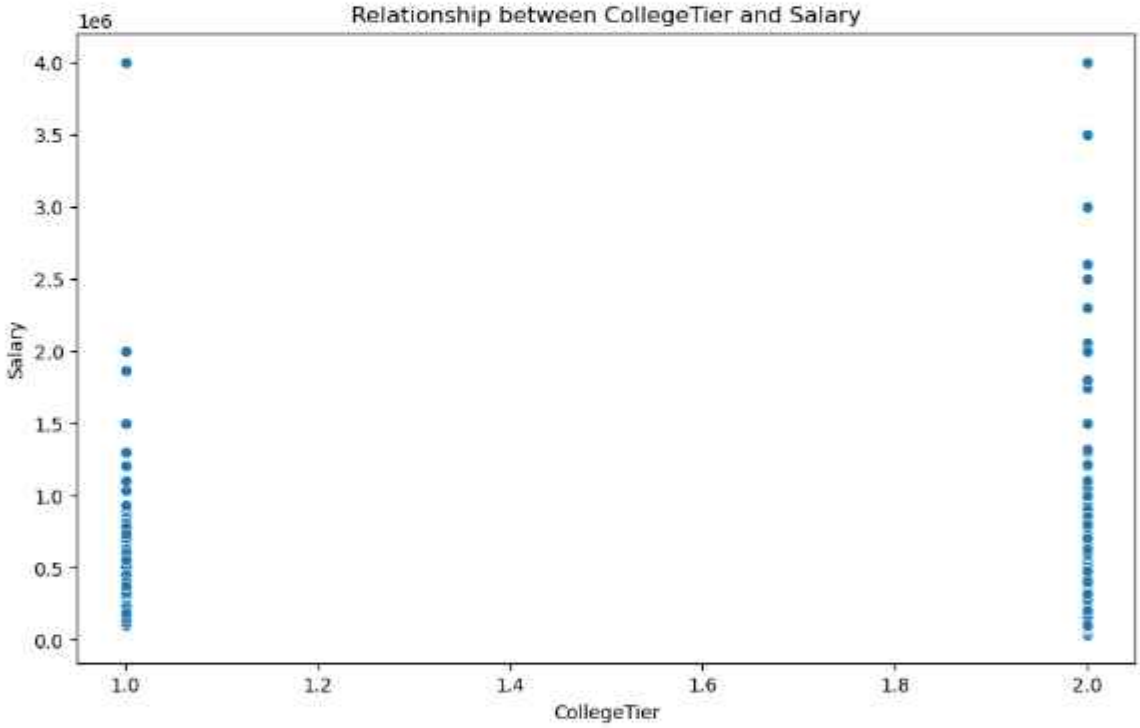

Relationship between ID and Salary
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1e6
ID

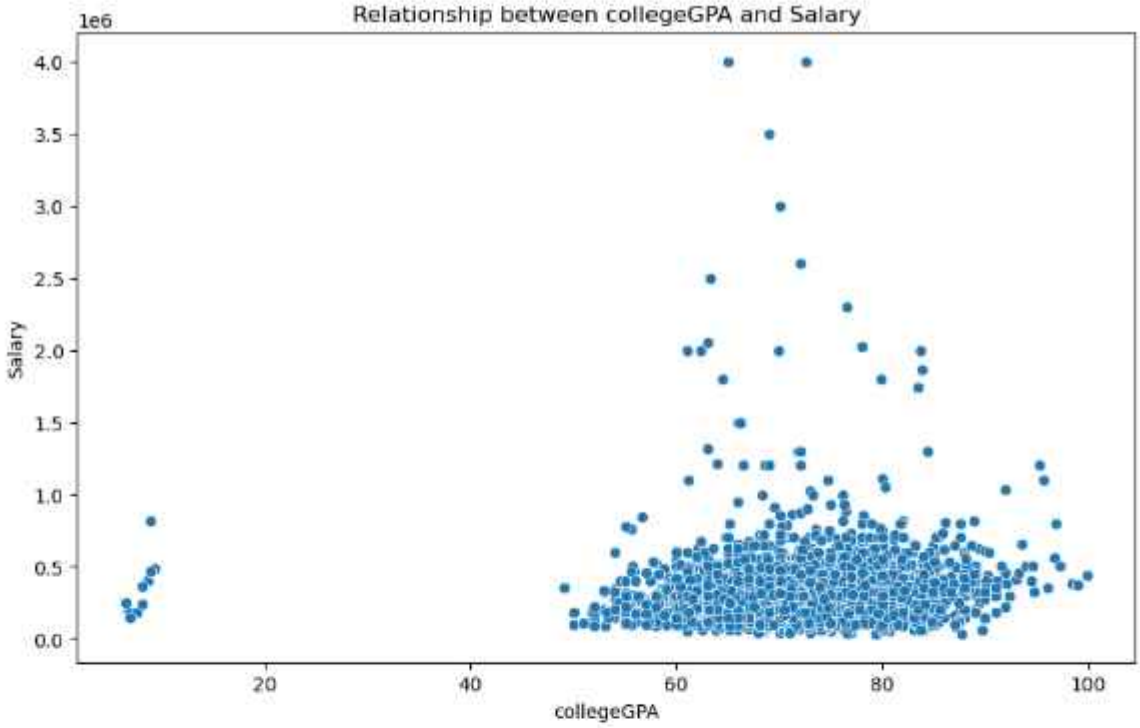

Relationship between 10percentage and Salary
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
50
60
70
80
90
100
10percentage

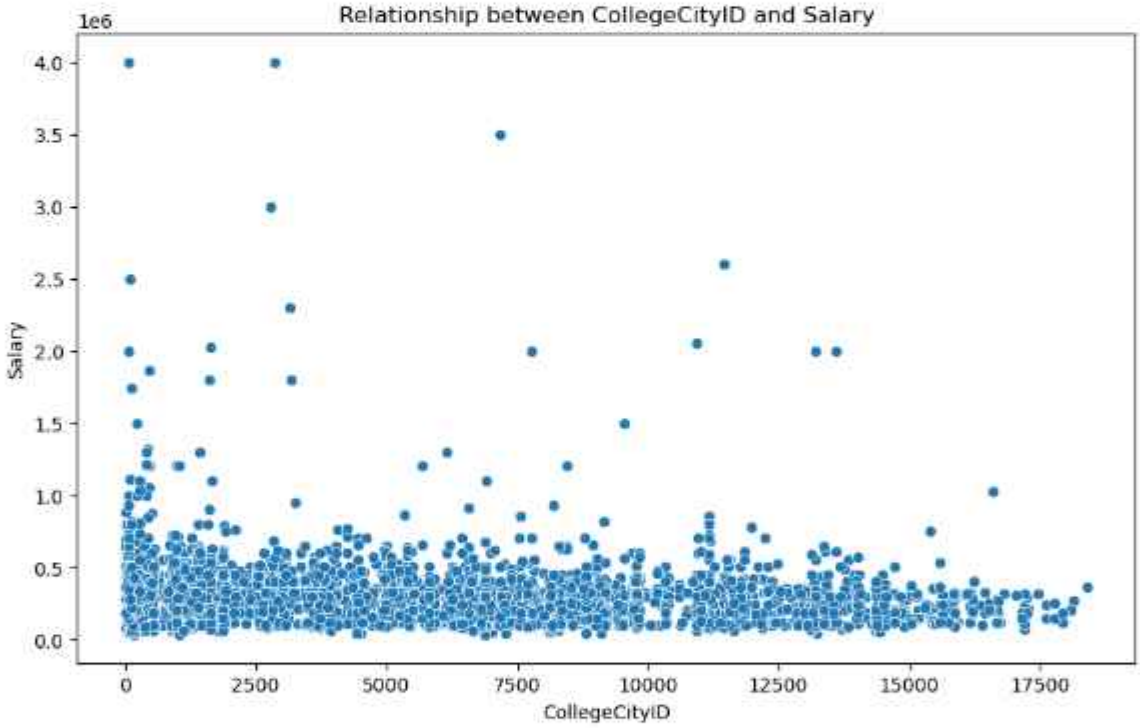

Relationship between 12graduation and Salary
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
1995.0
1997.5
2000.0
2002.5
2005.0
2007.5
2010.0
2012.5
12graduation

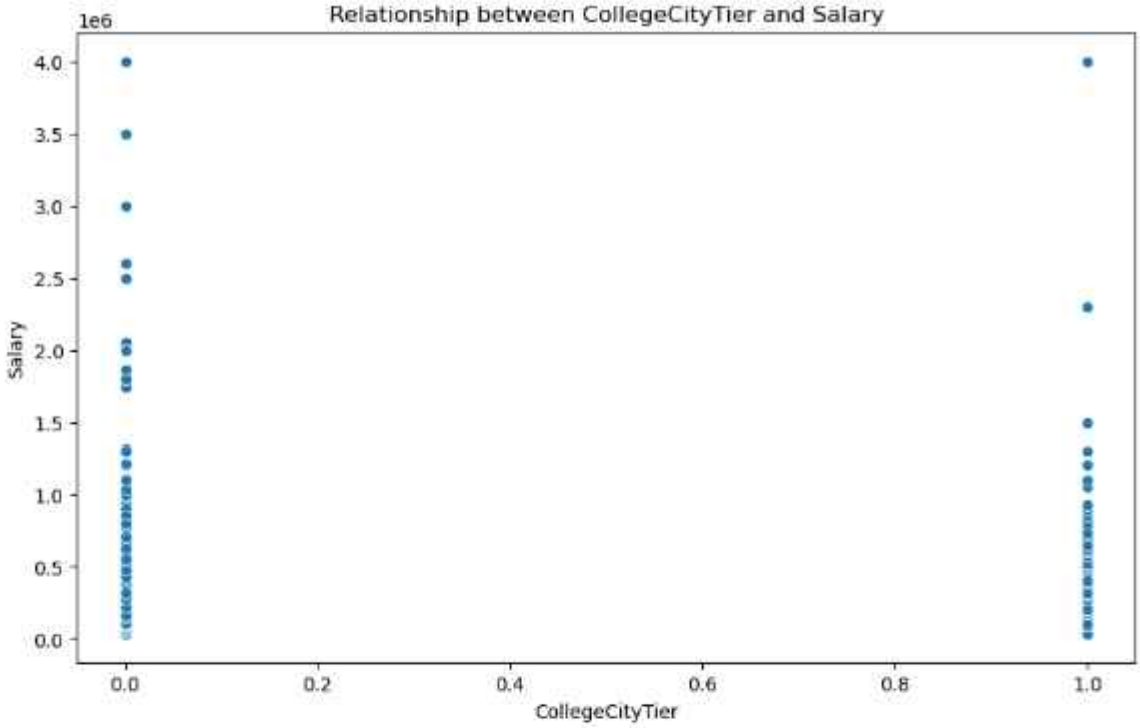

Relationship between 12percentage and Salary
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
40
50
60
70
80
90
100
12percentage

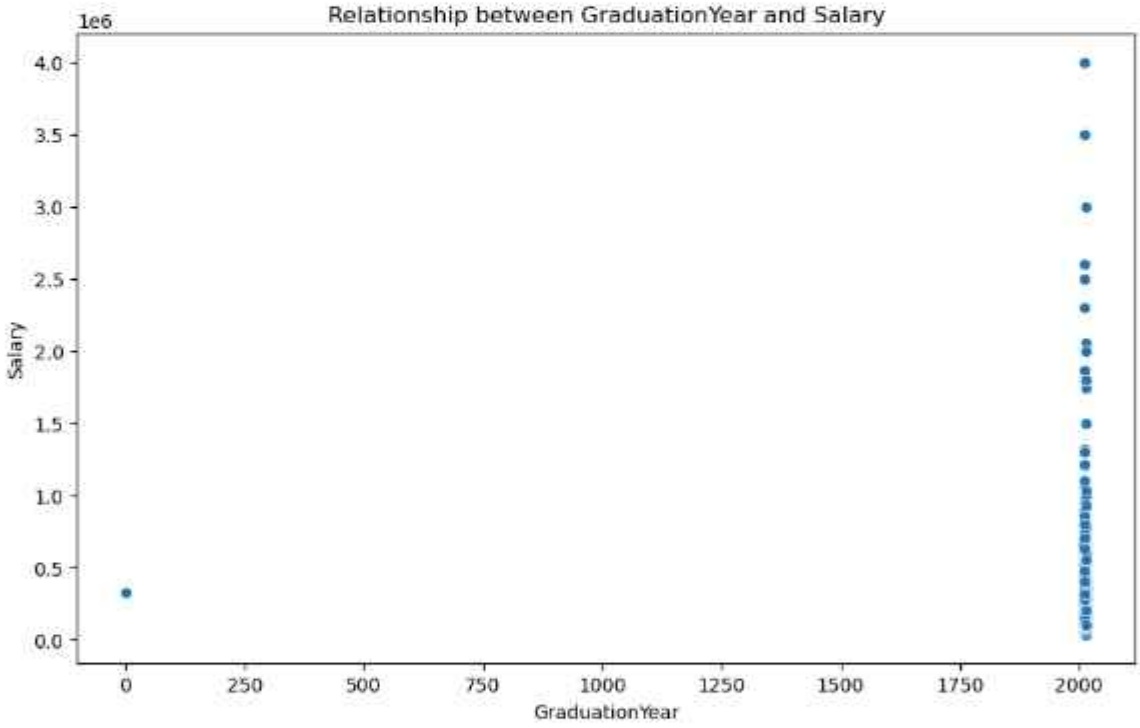

Relationship between CollegeID and Salary
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
0
2500
5000
7500
10000
12500
15000
17500
CollegeID

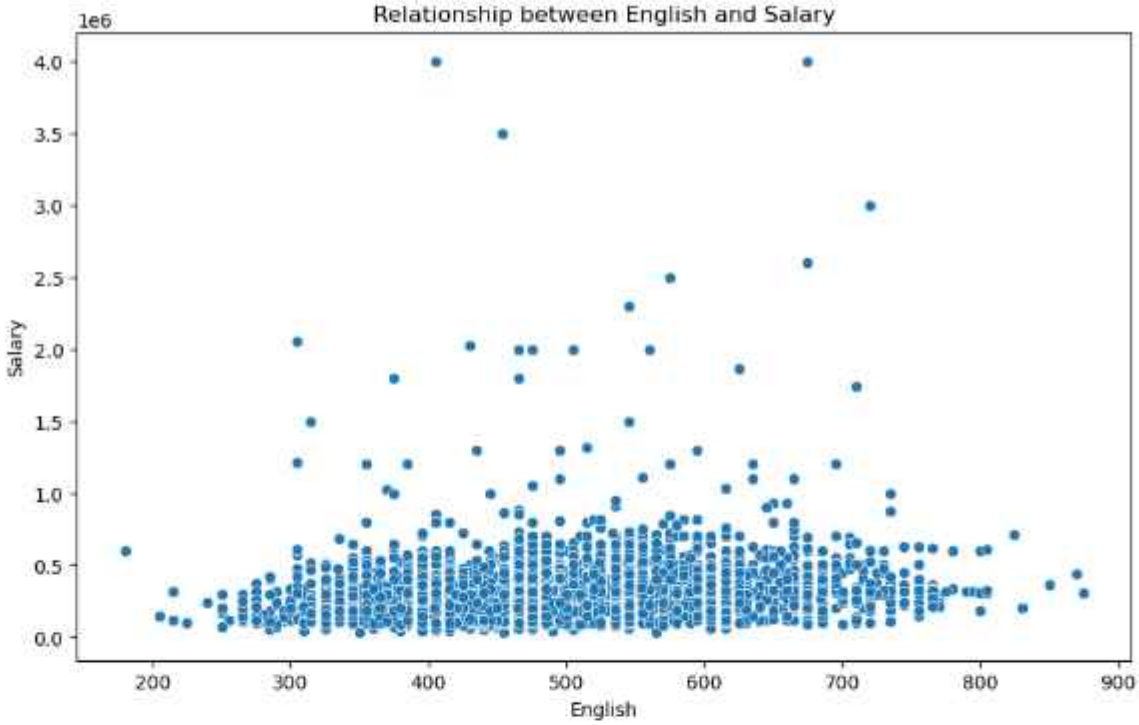

Relationship between CollegeTier and Salary
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
1.0
1.2
1.4
1.6
1.8
2.0
CollegeTier

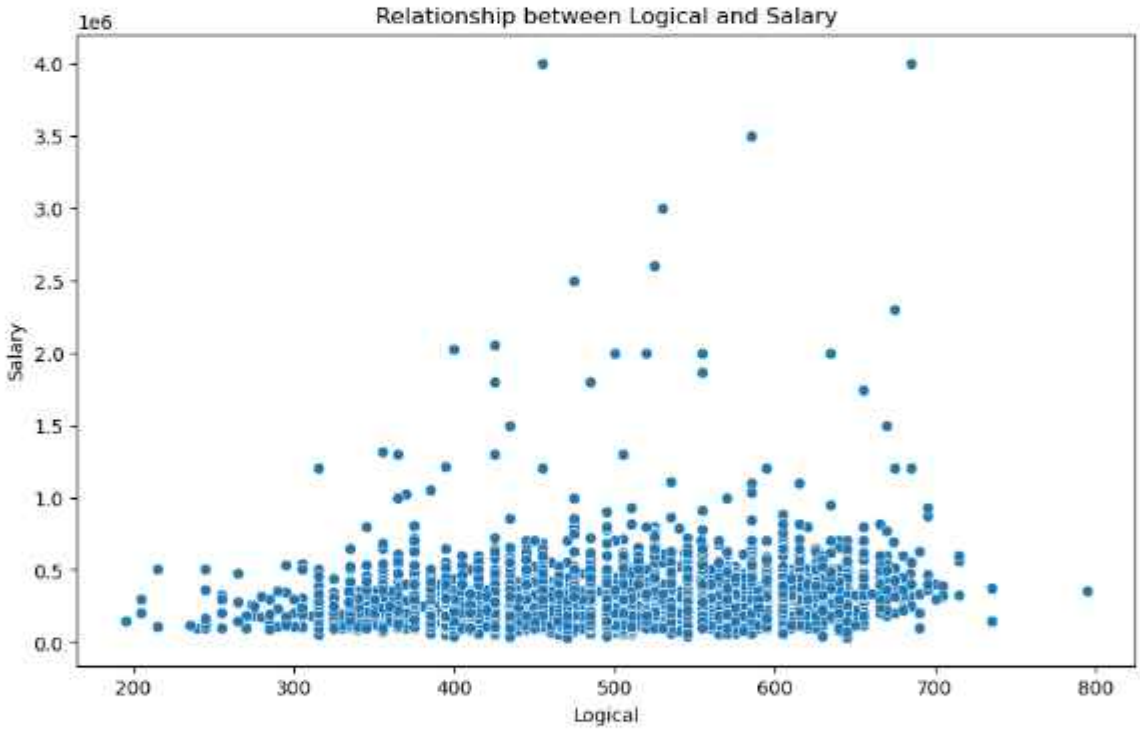

Relationship between collegeGPA and Salary
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
20
40
60
80
100
collegeGPA

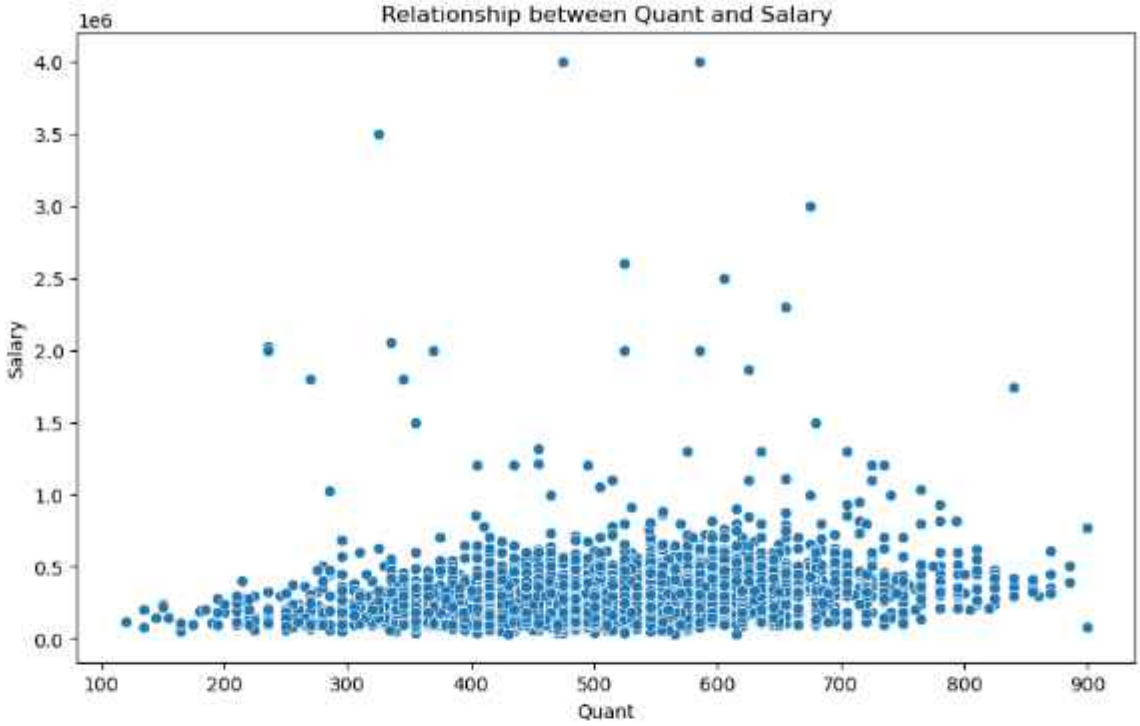

Relationship between CollegeCityID and Salary
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
0
2500
5000
7500
10000
12500
15000
17500
CollegeCityID

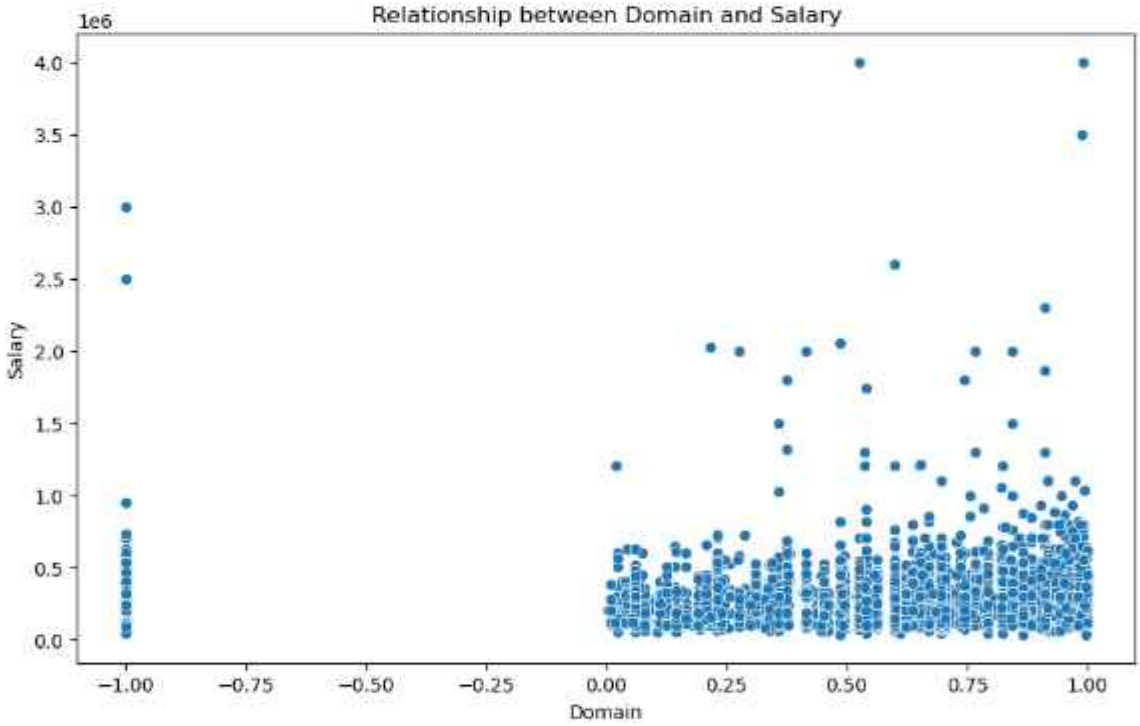

Relationship between CollegeCityTier and Salary
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
0.0
0.2
0.4
0.6
0.8
1.0
CollegeCityTier

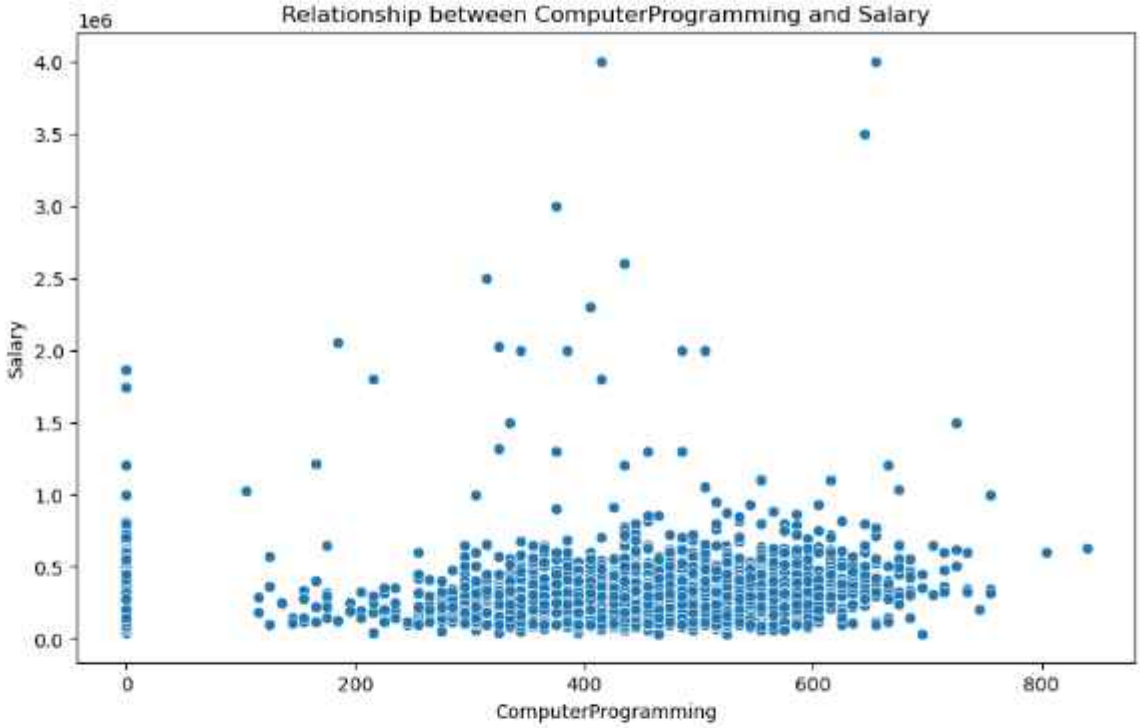

Relationship between GraduationYear and Salary
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
0
250
500
750
1000
1250
1500
1750
2000
GraduationYear

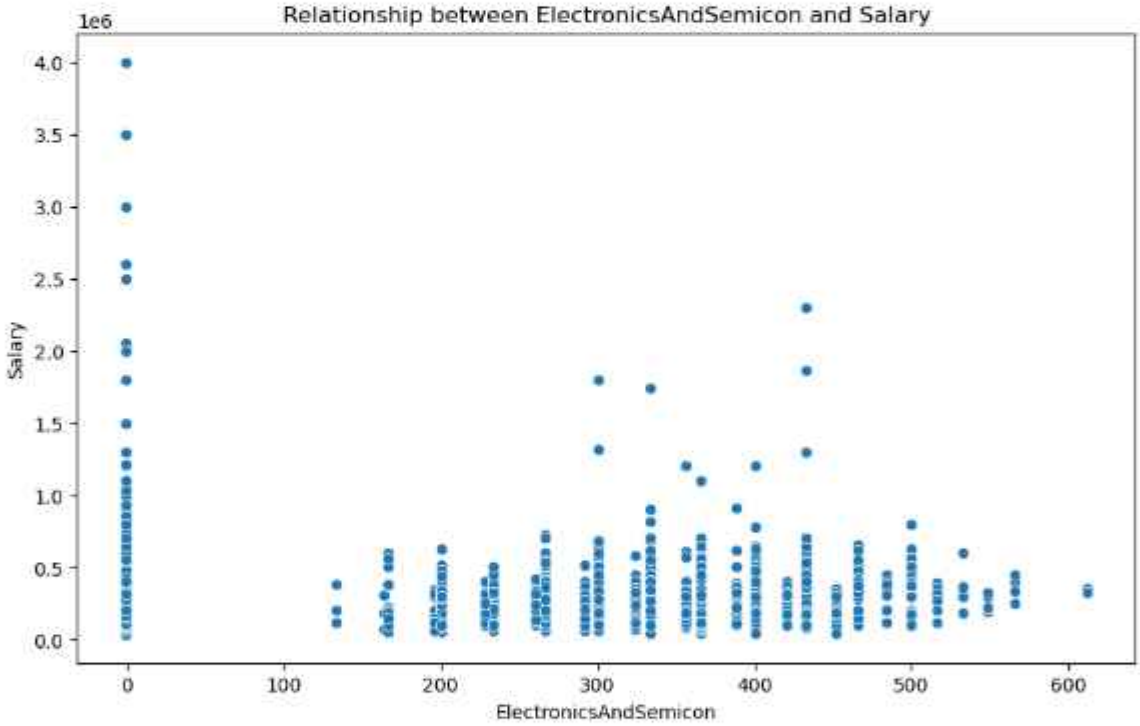

Relationship between English and Salary
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
200
300
400
500
600
700
800
900
English

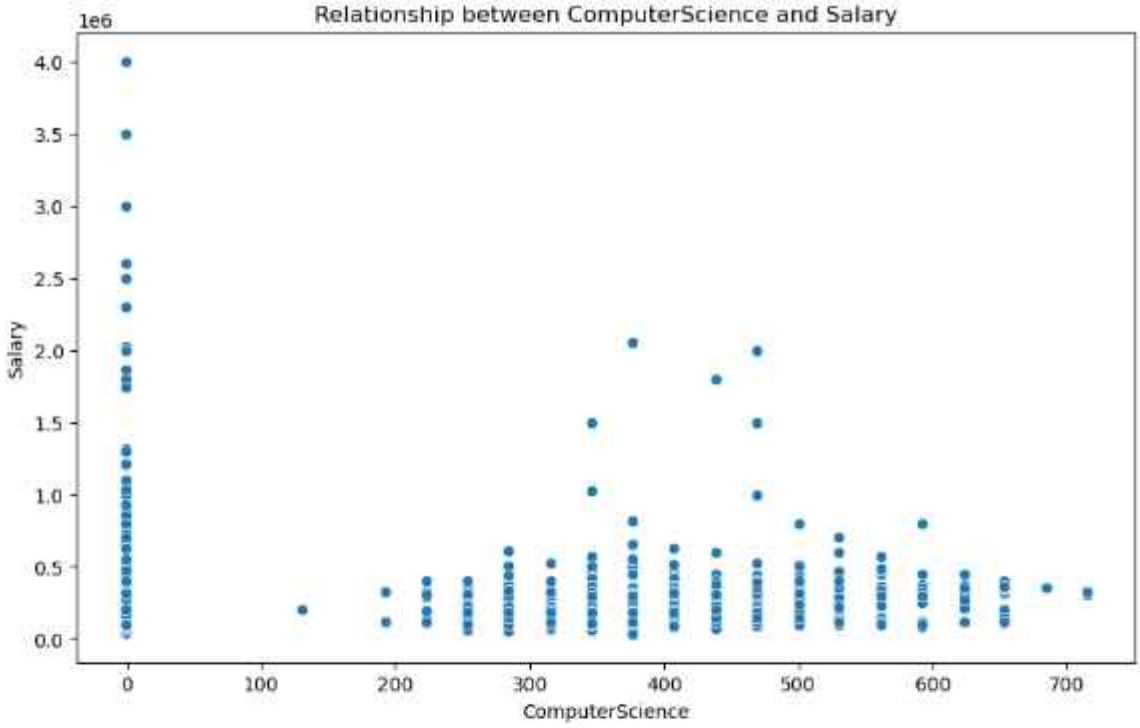

Relationship between Logical and Salary
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
200
300
400
500
600
700
800
Logical

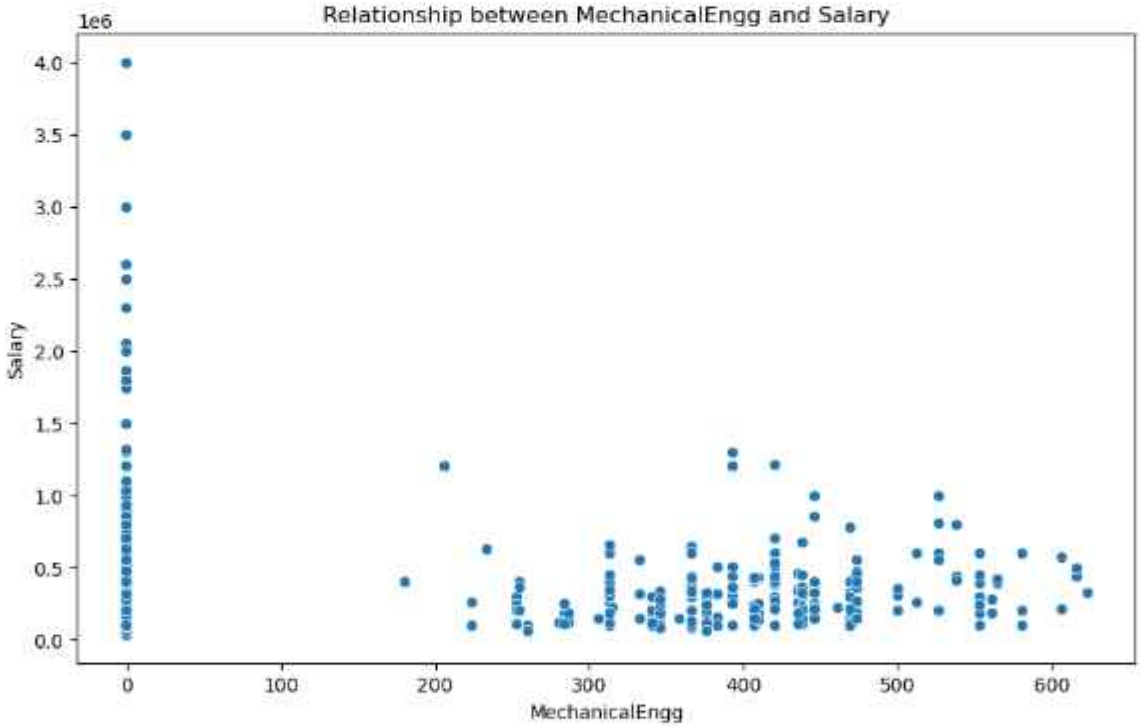

Relationship between Quant and Salary
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
100
200
300
400
500
600
700
800
900
Quant

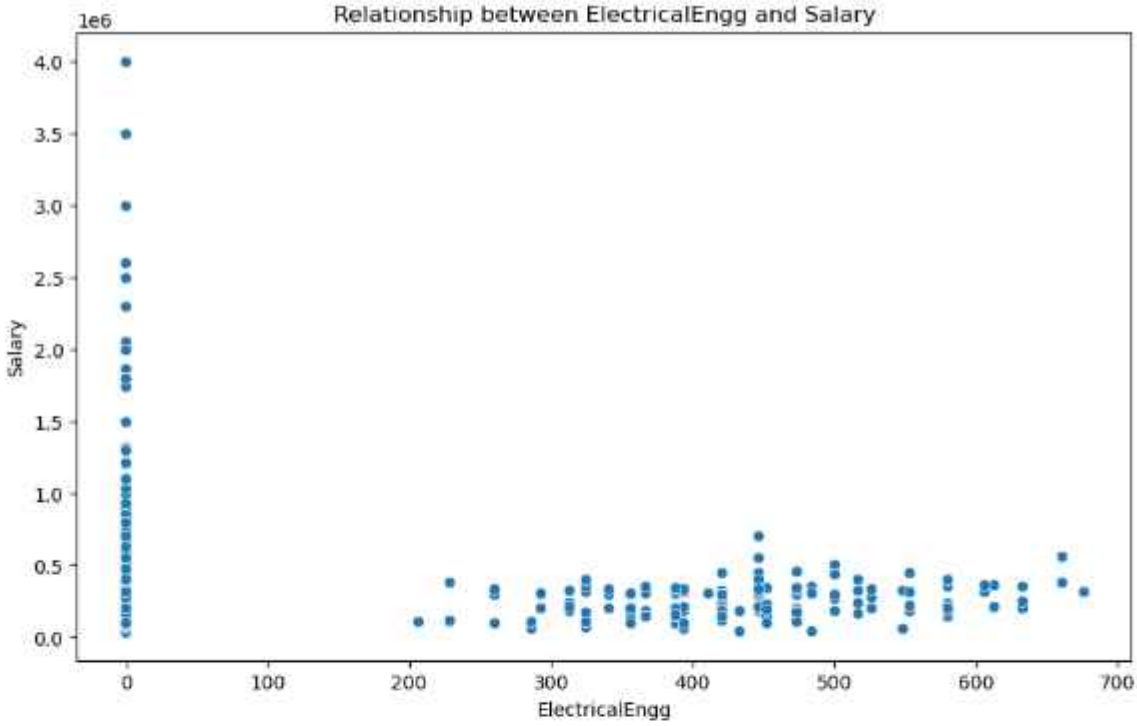

Relationship between Domain and Salary
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
−1.00
−0.75
−0.50
−0.25
0.00
0.25
0.50
0.75
1.00
Domain

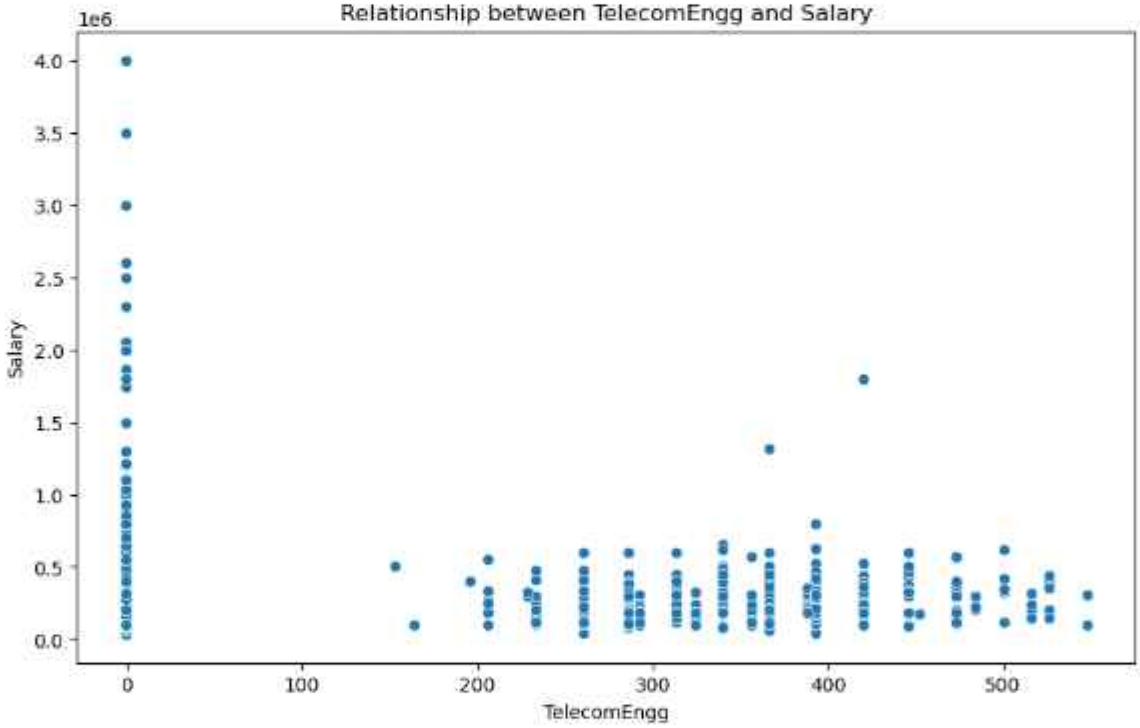

Relationship between ComputerProgramming and Salary
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
0
200
400
600
800
ComputerProgramming

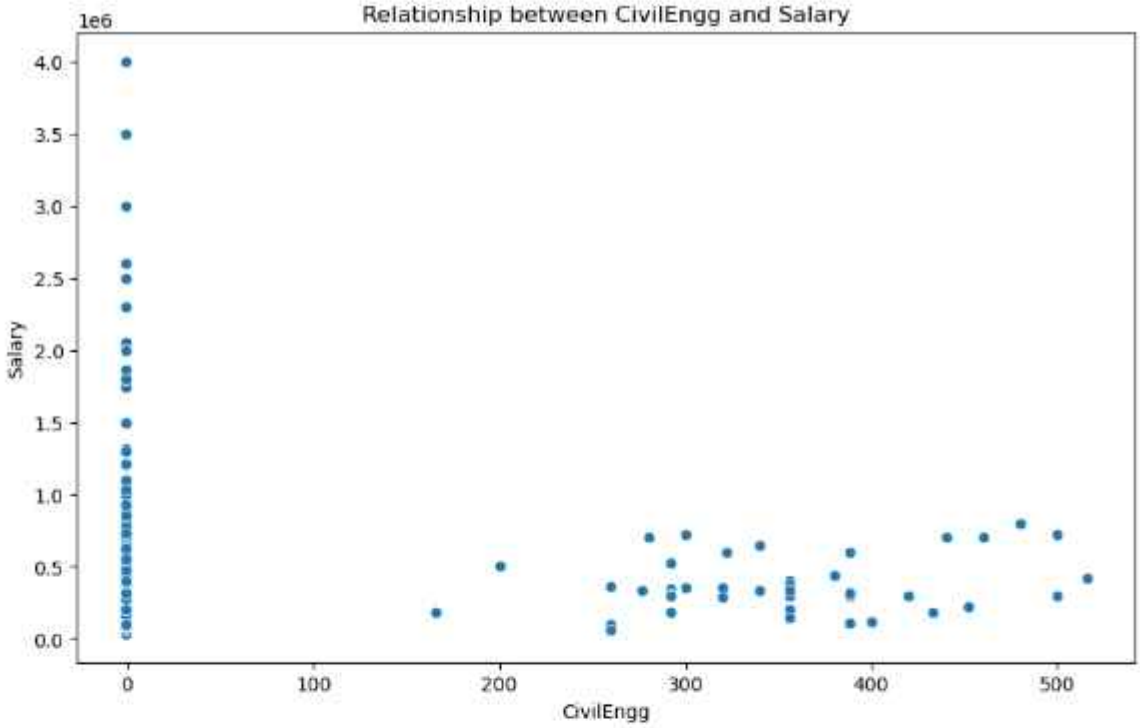

Relationship between ElectronicsAndSemicon and Salary
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
0
100
200
300
400
500
600
ElectronicsAndSemicon

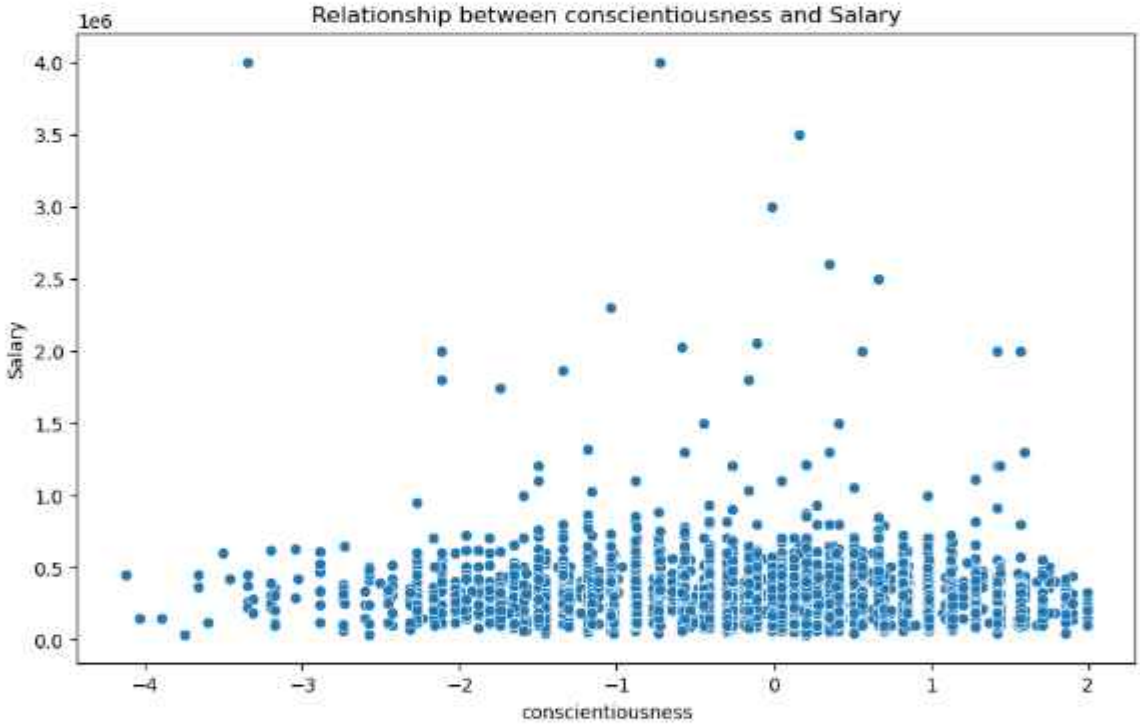

Relationship between ComputerScience and Salary
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
0
100
200
300
400
500
600
700
ComputerScience

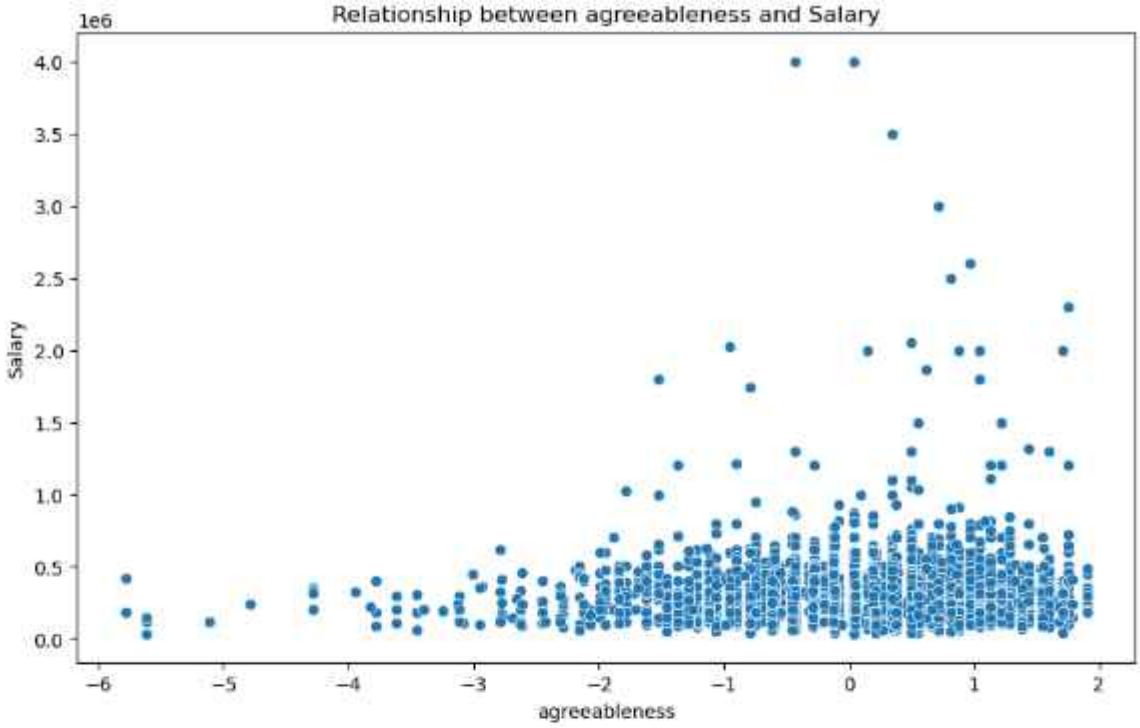

Relationship between MechanicalEngg and Salary
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
0
100
200
300
400
500
600
MechanicalEngg

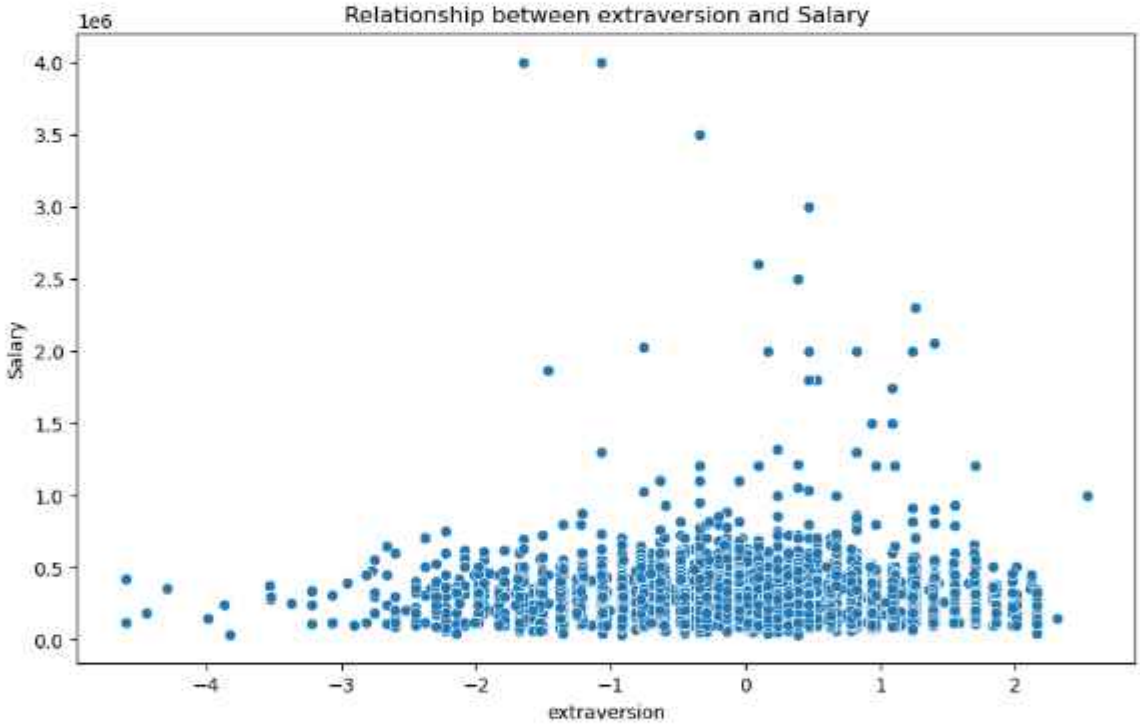

Relationship between ElectricalEngg and Salary
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
0
100
200
300
400
500
600
700
ElectricalEngg

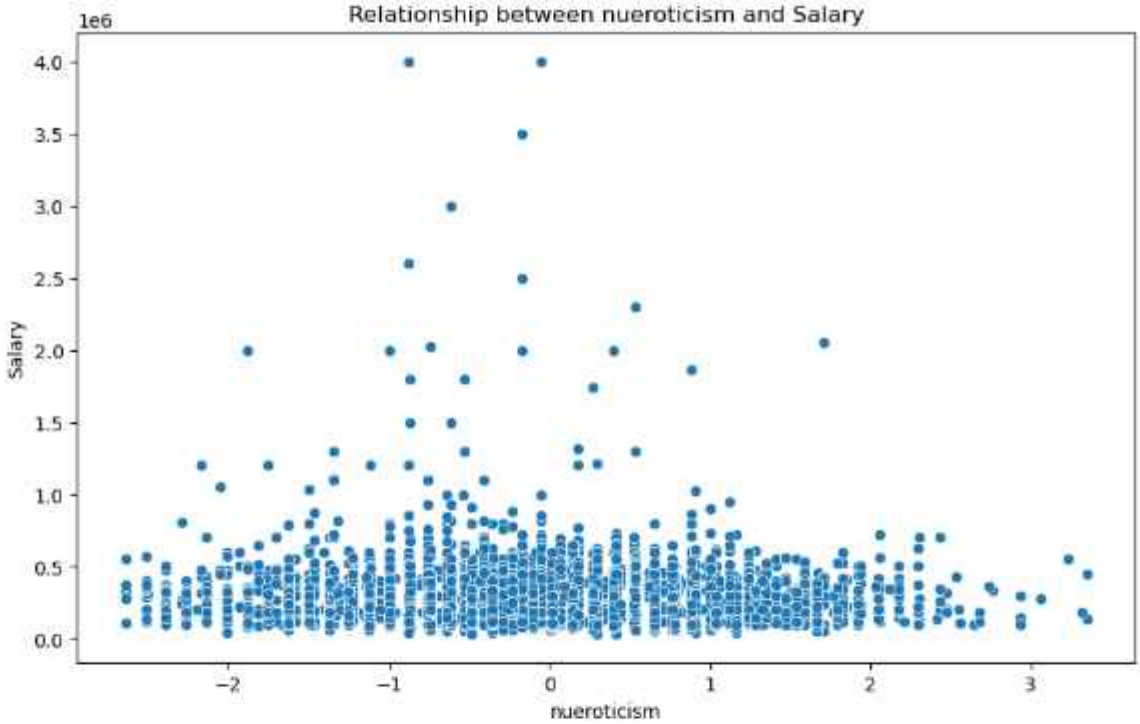

Relationship between TelecomEngg and Salary
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
0
100
200
300
400
500
TelecomEngg

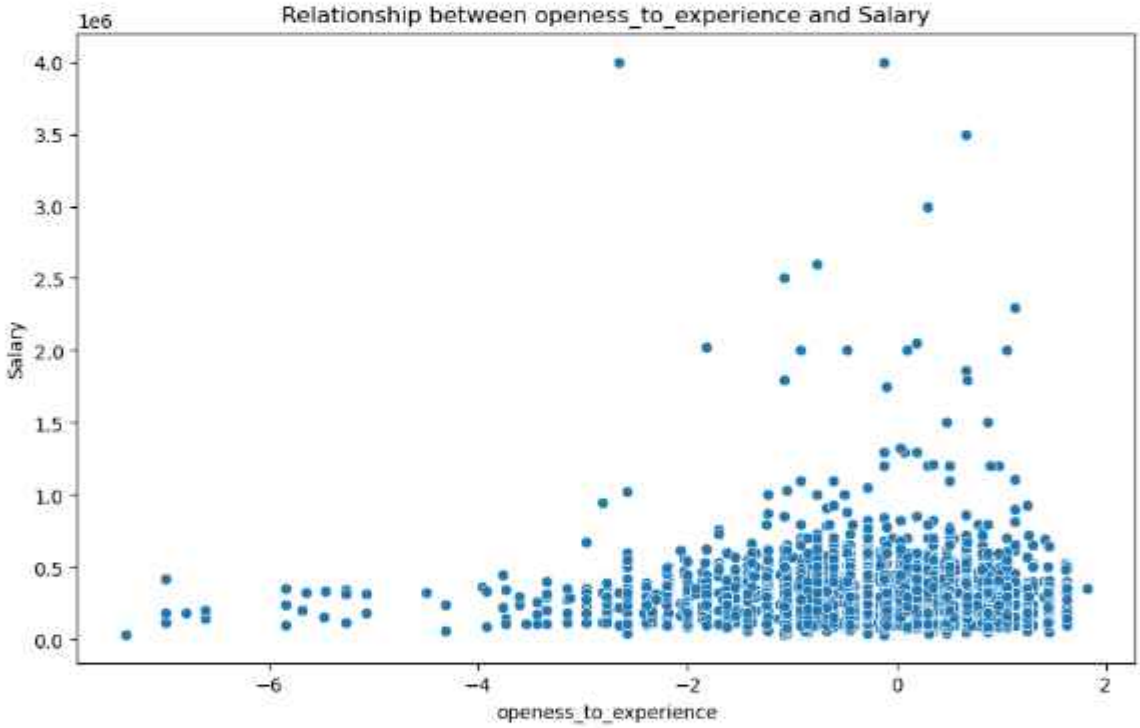

Relationship between CivilEngg and Salary
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
0
100
200
300
400
500
CivilEngg


Relationship between conscientiousness and Salary
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
−4
−3
−2
−1
0
1
2
conscientiousness


Relationship between agreeableness and Salary
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
−6
−5
−4
−3
−2
−1
0
1
2
agreeableness

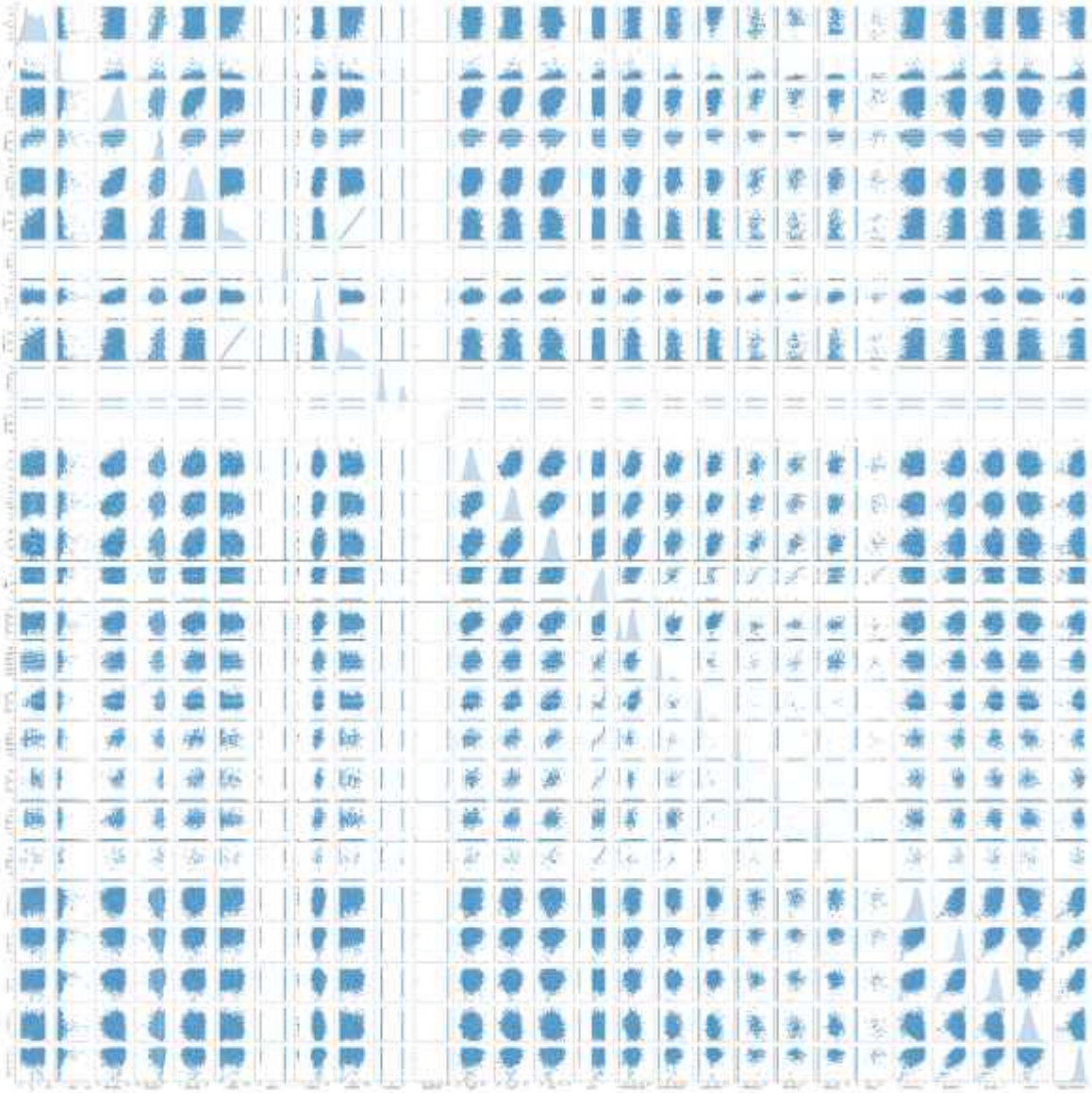

Relationship between extraversion and Salary
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
−4
−3
−2
−1
0
1
2
extraversion





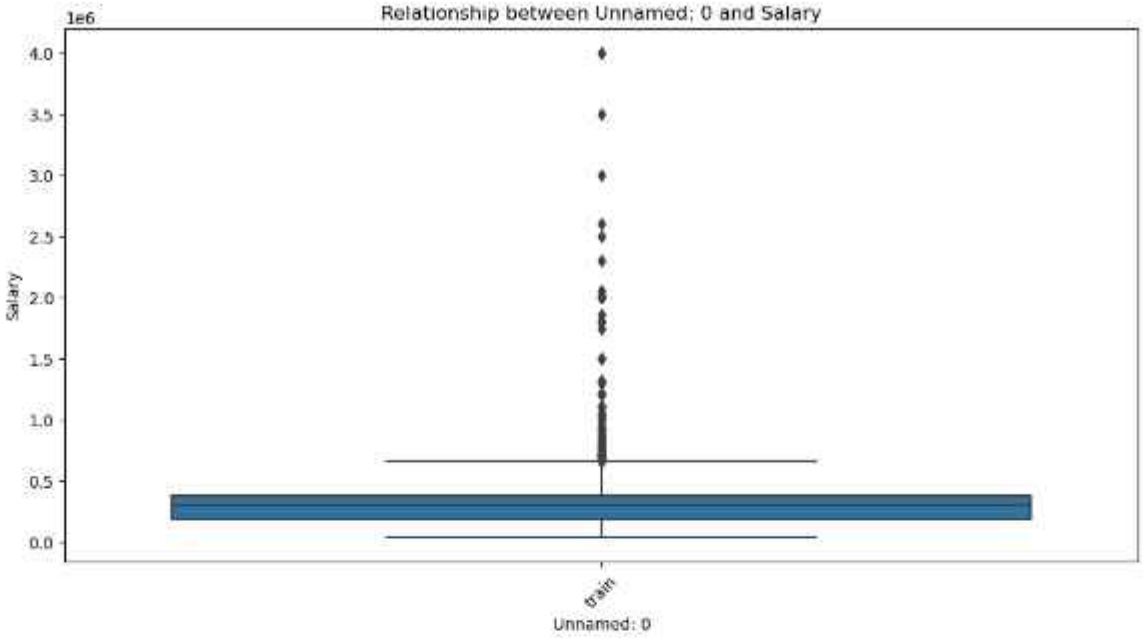
Pair Plot to examine relationships between numerical columns

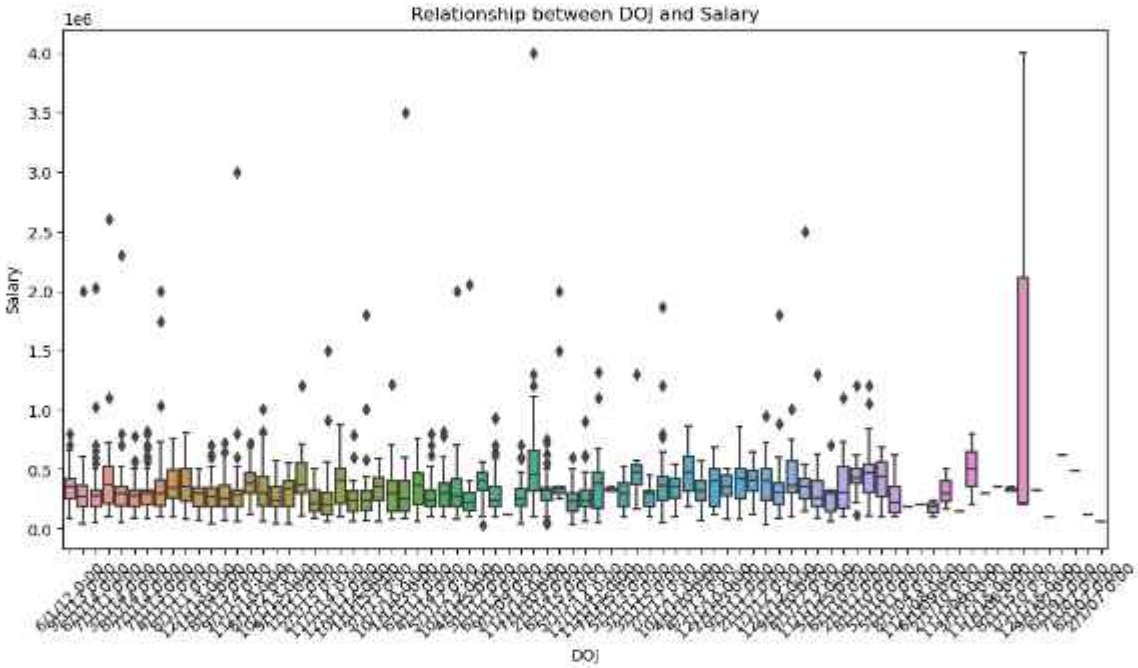
In [13]:
```
sns.pairplot(df[numerical_cols], diag_kind='kde')
plt.show()
```

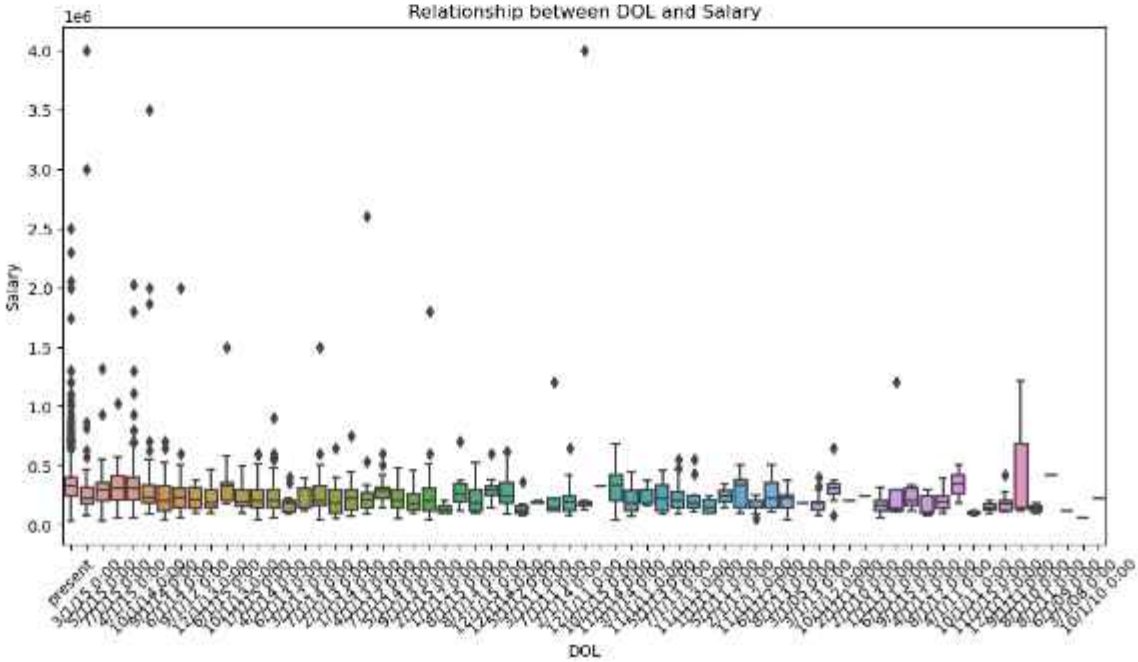


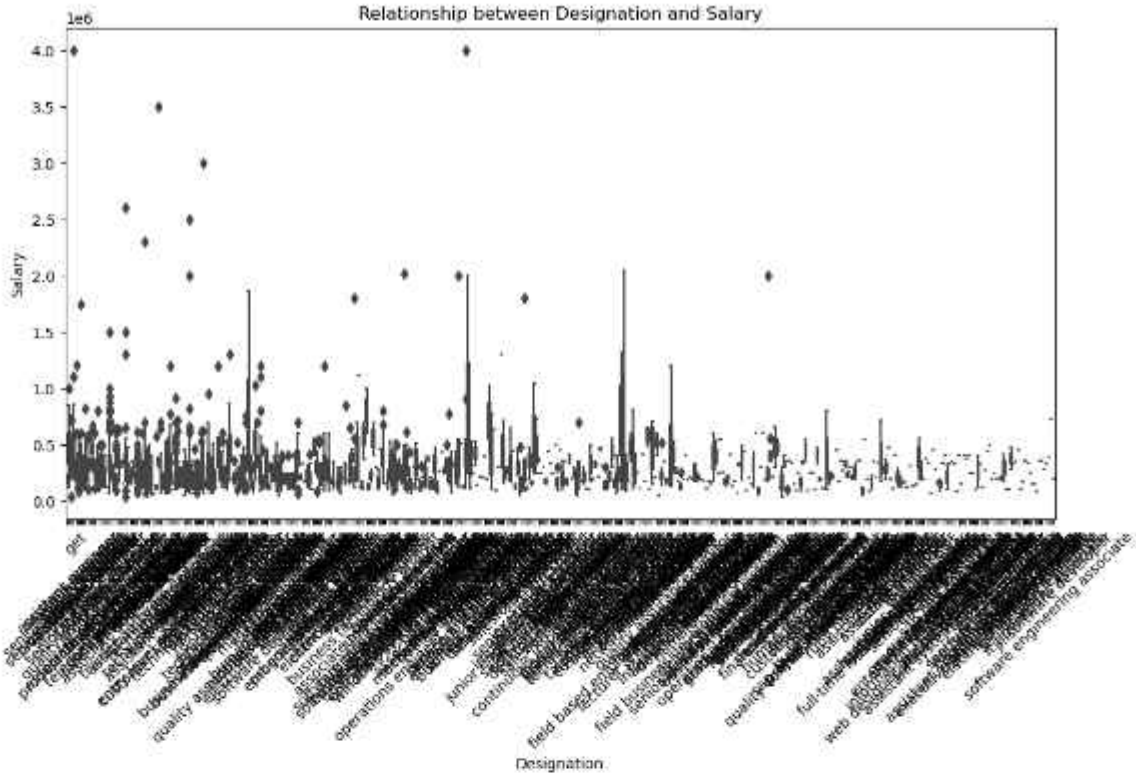
Boxplot to understand the relationship between categorical and target variable

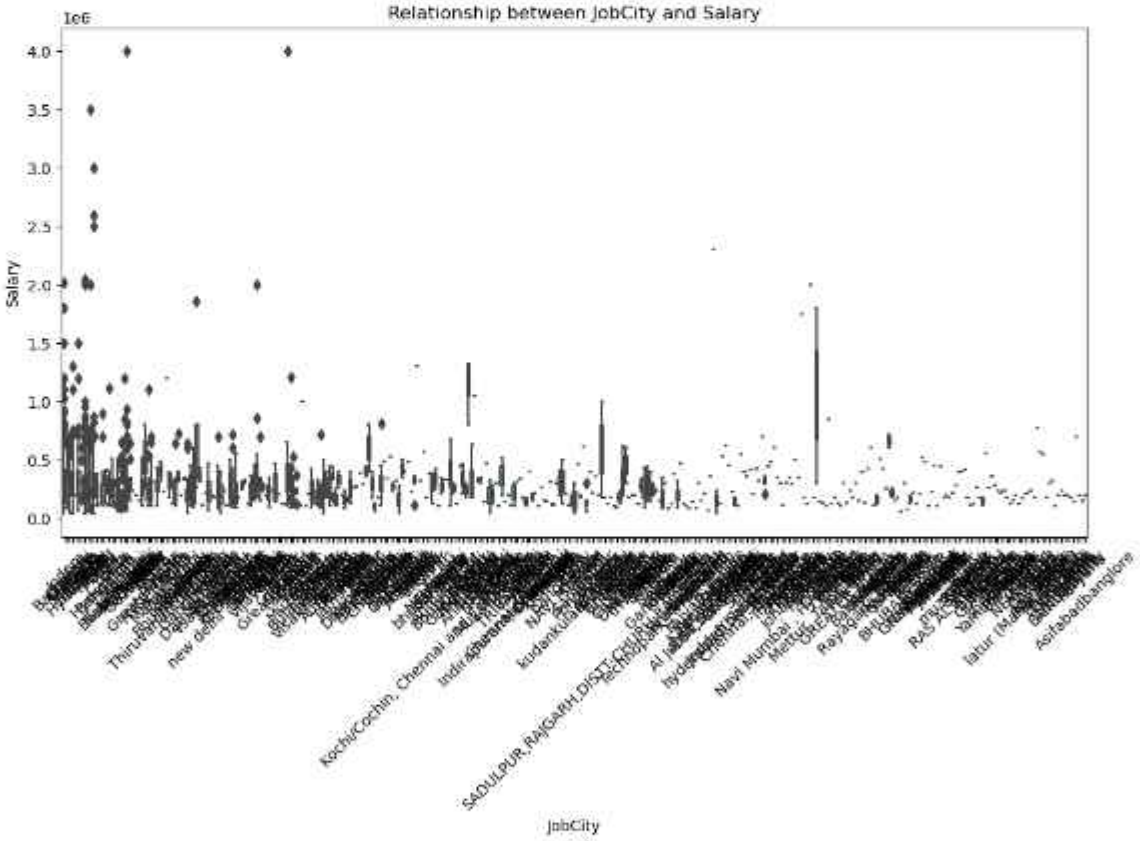
In [14]:
```
for col in categorical_cols:
    plt.figure(figsize=(12, 6))
    sns.boxplot(x=col, y='Salary', data=df)
    plt.title(f'Relationship between {col} and Salary')
    plt.xlabel(col)
    plt.ylabel('Salary')
    plt.xticks(rotation=45)
    plt.show()
```

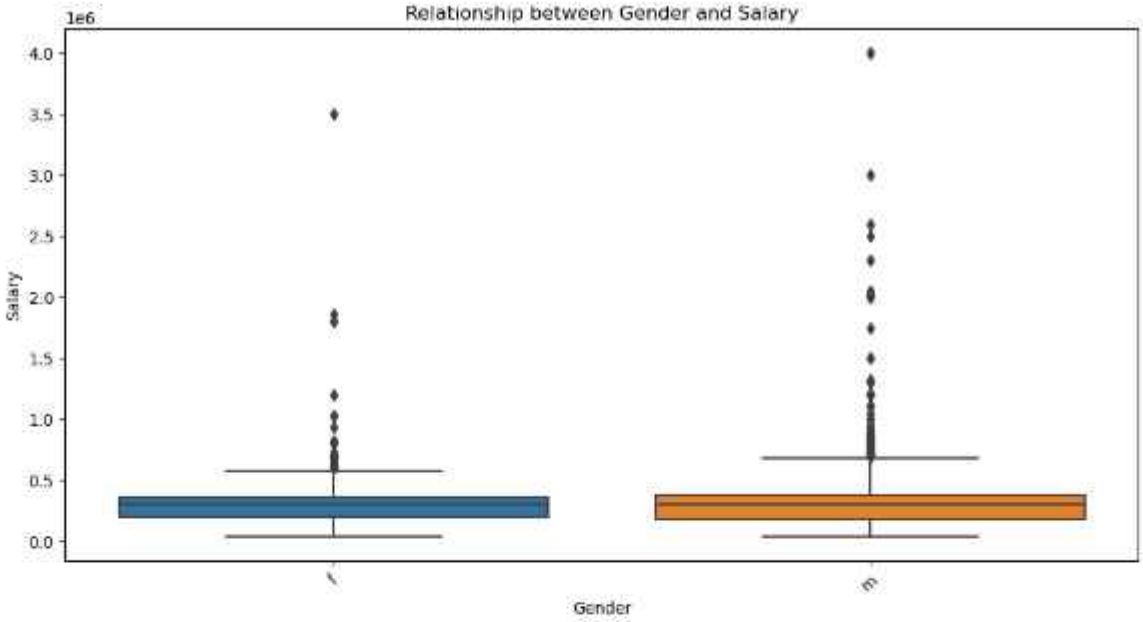

Relationship between Unnamed: 0 and Salary
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
train
Unnamed: 0

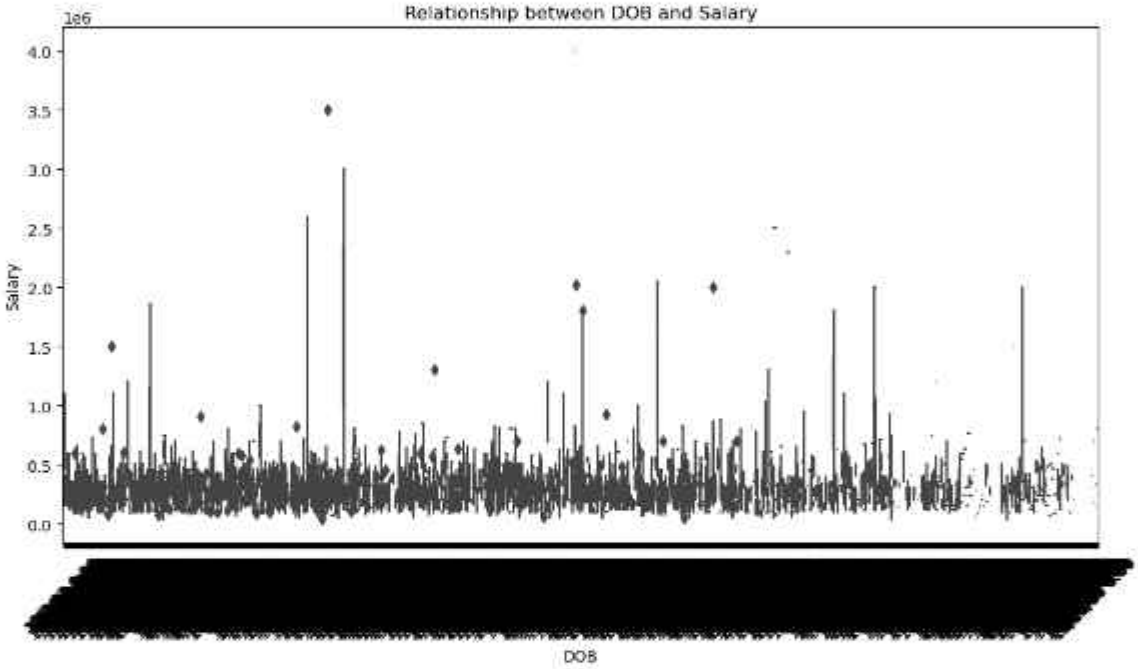

Relationship between DOJ and Salary
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
DOJ

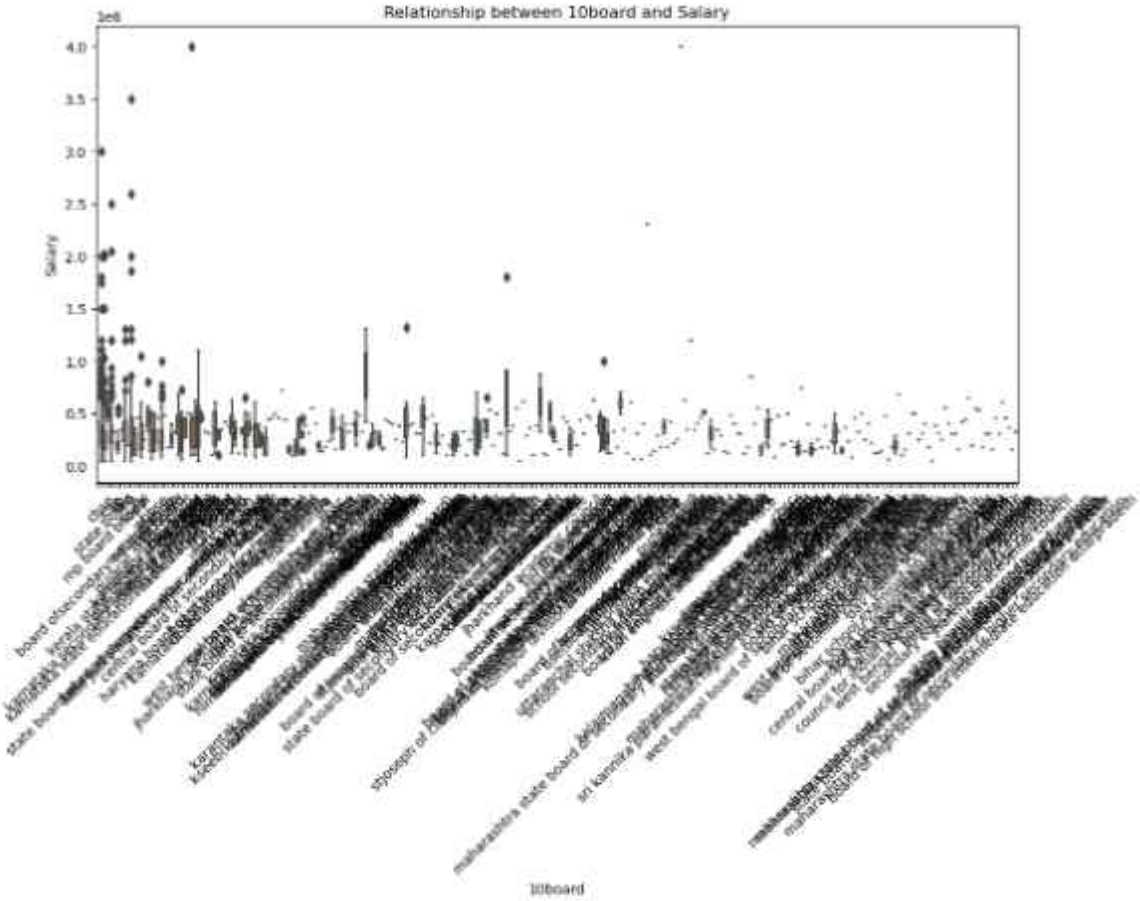

Relationship between DOL and Salary
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
present
DOL

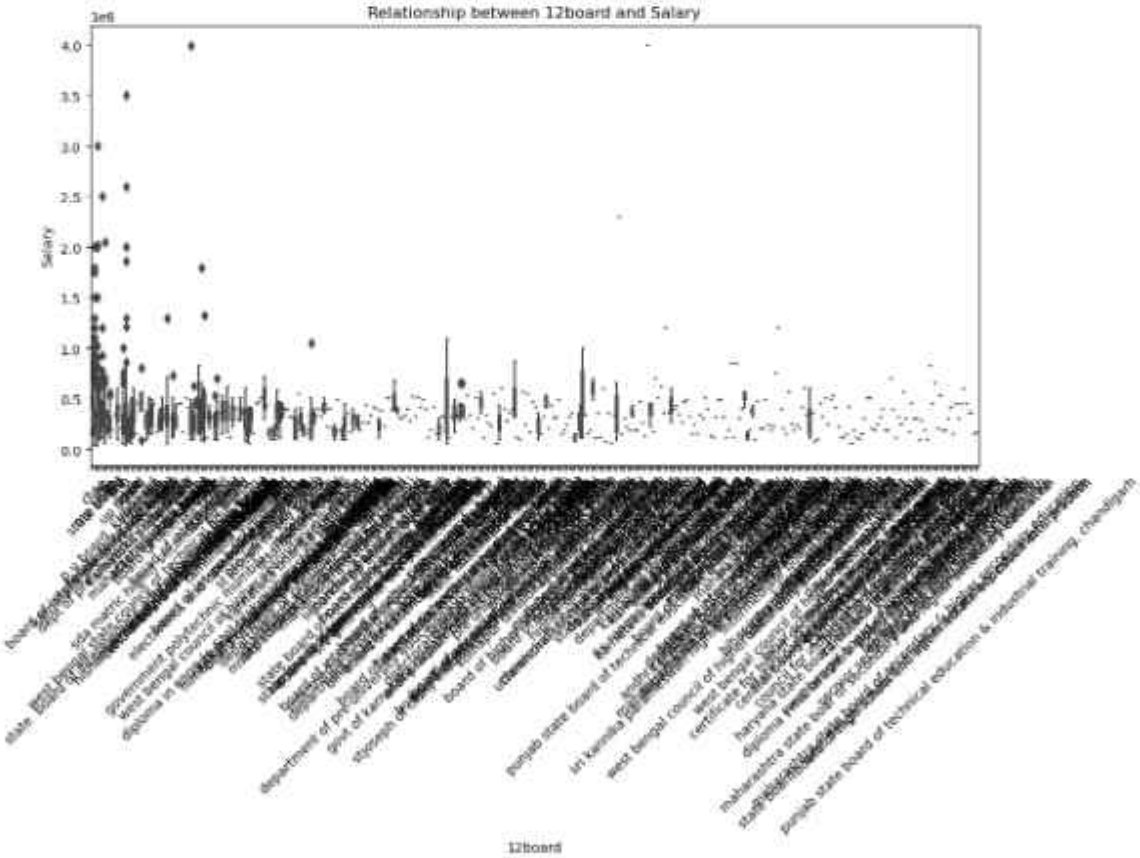

Relationship between Designation and Salary
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
Designation

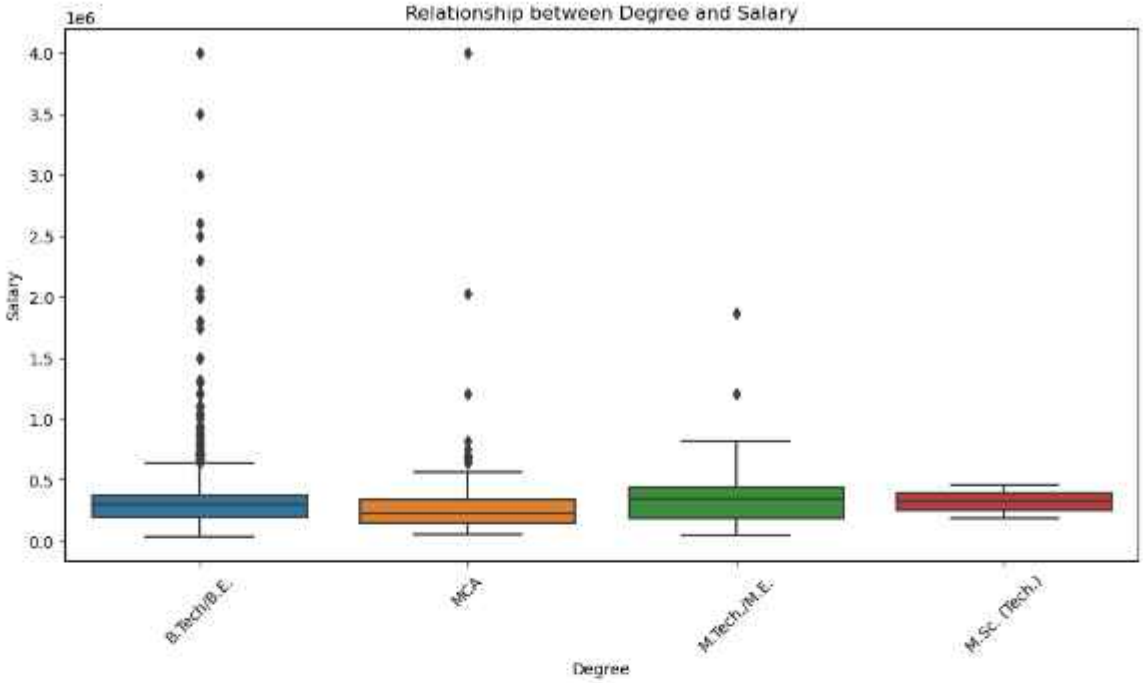

Relationship between JobCity and Salary
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
JobCity

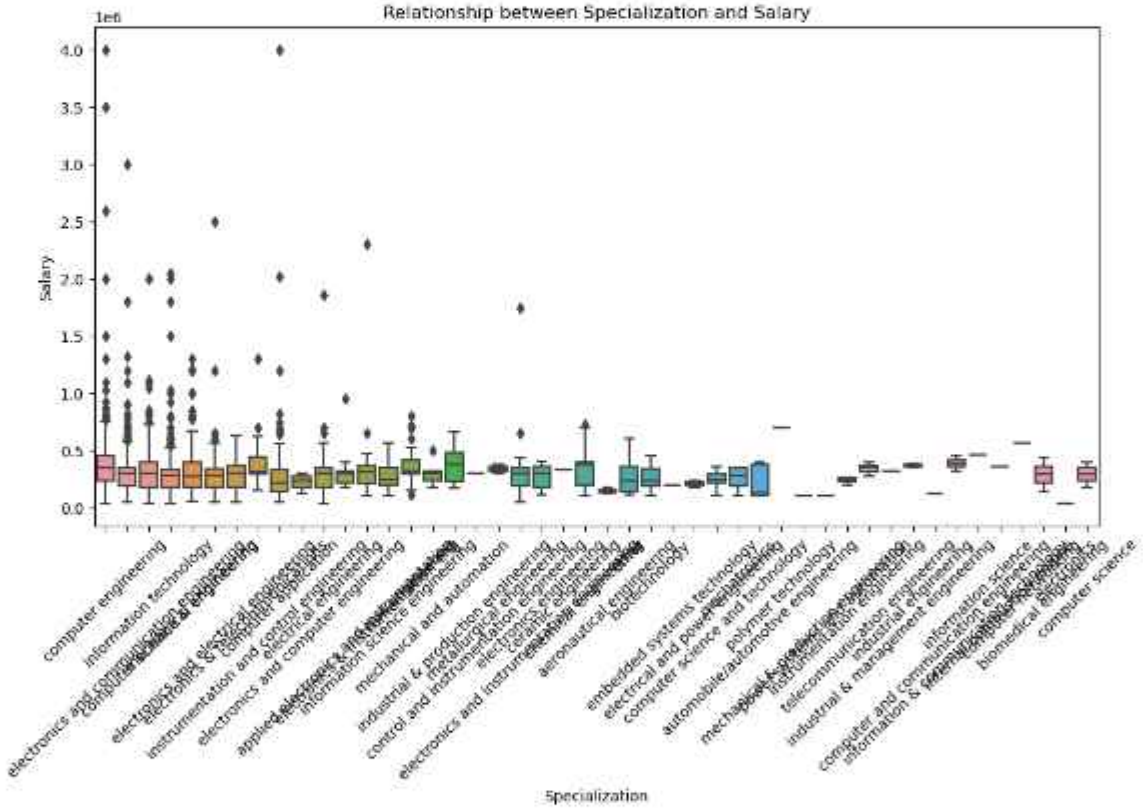

Relationship between Gender and Salary
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
Gender

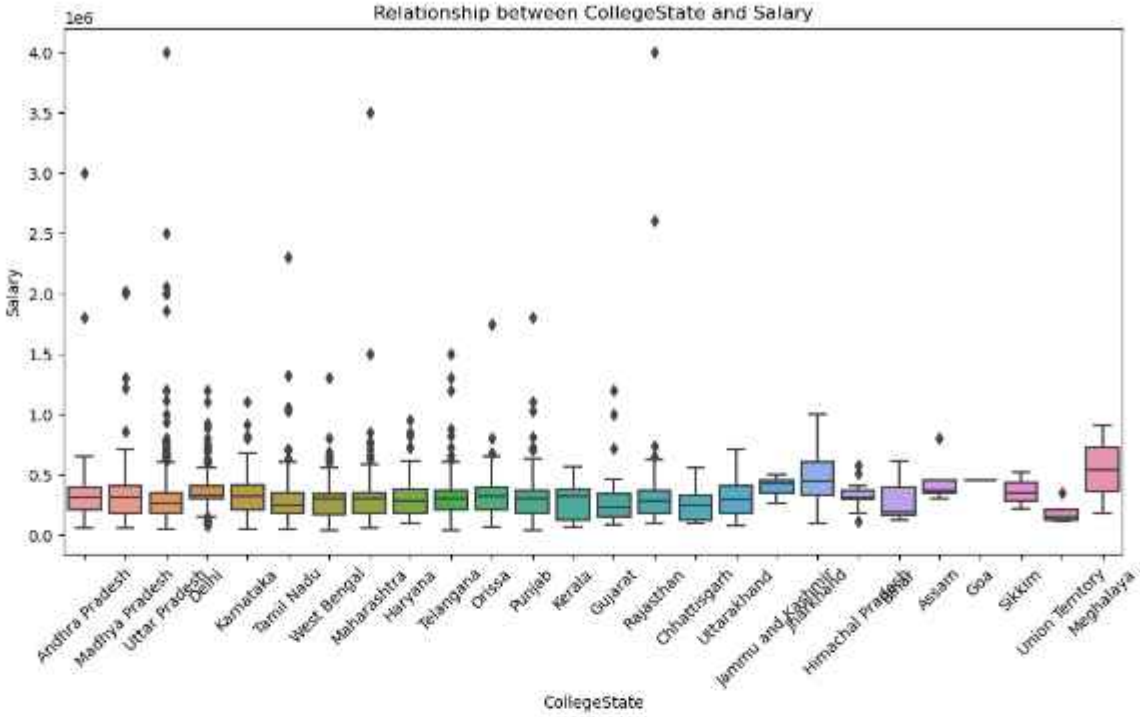

Relationship between DOB and Salary
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
DOB


Relationship between 10board and Salary
1e6
Salary
10board


Relationship between 12board and Salary
1e6
Salary
12board

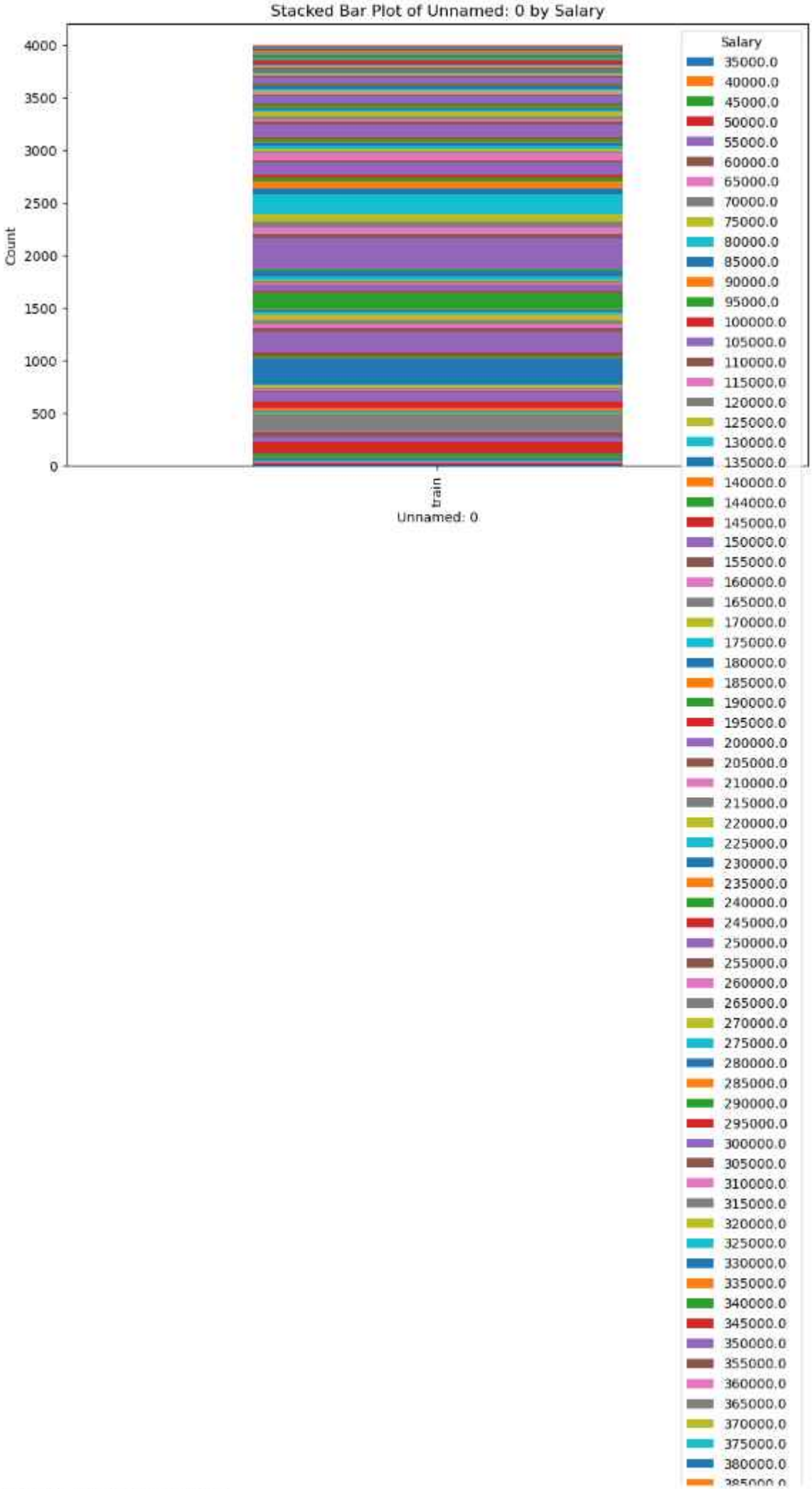

Relationship between Degree and Salary
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
B.Tech/B.E.
MCA
M.Tech./M.E.
M.Sc. (Tech.)
Degree


Relationship between Specialization and Salary
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
computer engineering
information technology
electronics and communication engineering
electronics and electrical engineering
instrumentation and control engineering
electronics and computer engineering
mechanical and automation
industrial & production engineering
metallurgical engineering
control and instrumentation engineering
electronics engineering
ceramic engineering
aeronautical engineering
biotechnology
embedded systems technology
electrical and power engineering
computer science and technology
polymer technology
automobile/automotive engineering
instrumentation engineering
telecommunication engineering
industrial & management engineering
information science
computer and communication engineering
biomedical engineering
computer science
Specialization



Categorical vs. Categorical relationship using a stacked bar plot

In [15]:
```
for col in categorical_cols:
    crosstab = pd.crosstab(df[col], df['Salary'])
    crosstab.plot(kind='bar', stacked=True, figsize=(10, 6))
    plt.title(f'Stacked Bar Plot of {col} by Salary')
    plt.xlabel(col)
    plt.ylabel('Count')
    plt.show()
```


Stacked Bar Plot of Unnamed: 0 by Salary
Count
4000
3500
3000
2500
2000
1500
1000
500
0
train
Unnamed: 0
Salary
35000.0
40000.0
45000.0
50000.0
55000.0
60000.0
65000.0
70000.0
75000.0
80000.0
85000.0
90000.0
95000.0
100000.0
105000.0
110000.0
115000.0
120000.0
125000.0
130000.0
135000.0
140000.0
144000.0
145000.0
150000.0
155000.0
160000.0
165000.0
170000.0
175000.0
180000.0
185000.0
190000.0
195000.0
200000.0
205000.0
210000.0
215000.0
220000.0
225000.0
230000.0
235000.0
240000.0
245000.0
250000.0
255000.0
260000.0
265000.0
270000.0
275000.0
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295000.0
300000.0
305000.0
310000.0
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365000.0
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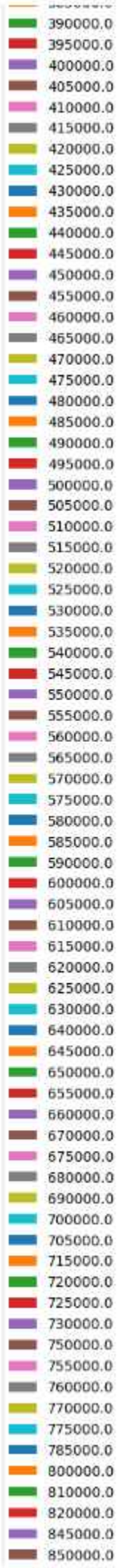
375000.0
380000.0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475000.0
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485000.0
490000.0
495000.0
500000.0
505000.0
510000.0
515000.0
520000.0
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720000.0
725000.0
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750000.0
755000.0
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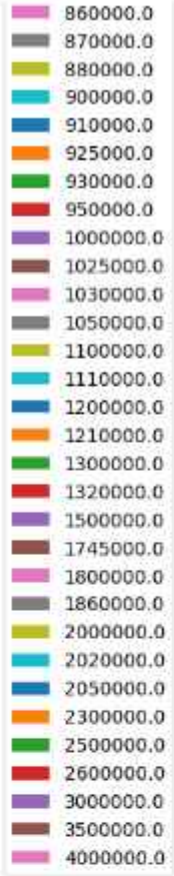
770000.0
775000.0
785000.0
800000.0
810000.0
820000.0
845000.0
850000.0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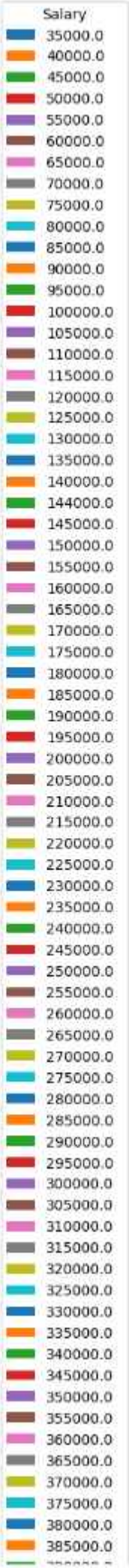
910000.0
925000.0
930000.0
950000.0
1000000.0
1025000.0
1030000.0
1050000.0
1100000.0
1110000.0
1200000.0
1210000.0
1300000.0
1320000.0
1500000.0
1745000.0
1800000.0
1860000.0
2000000.0
2020000.0
2050000.0
2300000.0
2500000.0
2600000.0
3000000.0
3500000.0
4000000.0


Salary
35000.0
40000.0
45000.0
50000.0
55000.0
60000.0
65000.0
70000.0
75000.0
80000.0
85000.0
90000.0
95000.0
100000.0
105000.0
110000.0
115000.0
120000.0
125000.0
130000.0
135000.0
140000.0
144000.0
145000.0
150000.0
155000.0
160000.0
165000.0
170000.0
175000.0
180000.0
185000.0
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205000.0
210000.0
215000.0
220000.0
225000.0
230000.0
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255000.0
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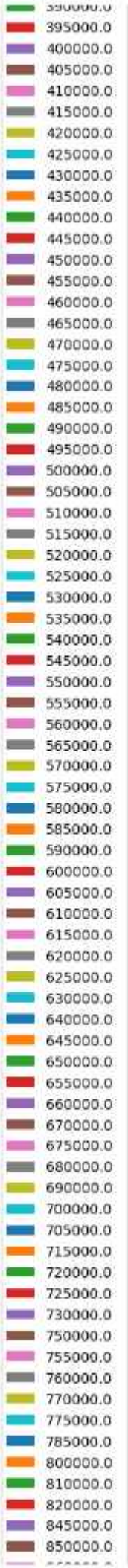
385000.0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660000.0
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750000.0
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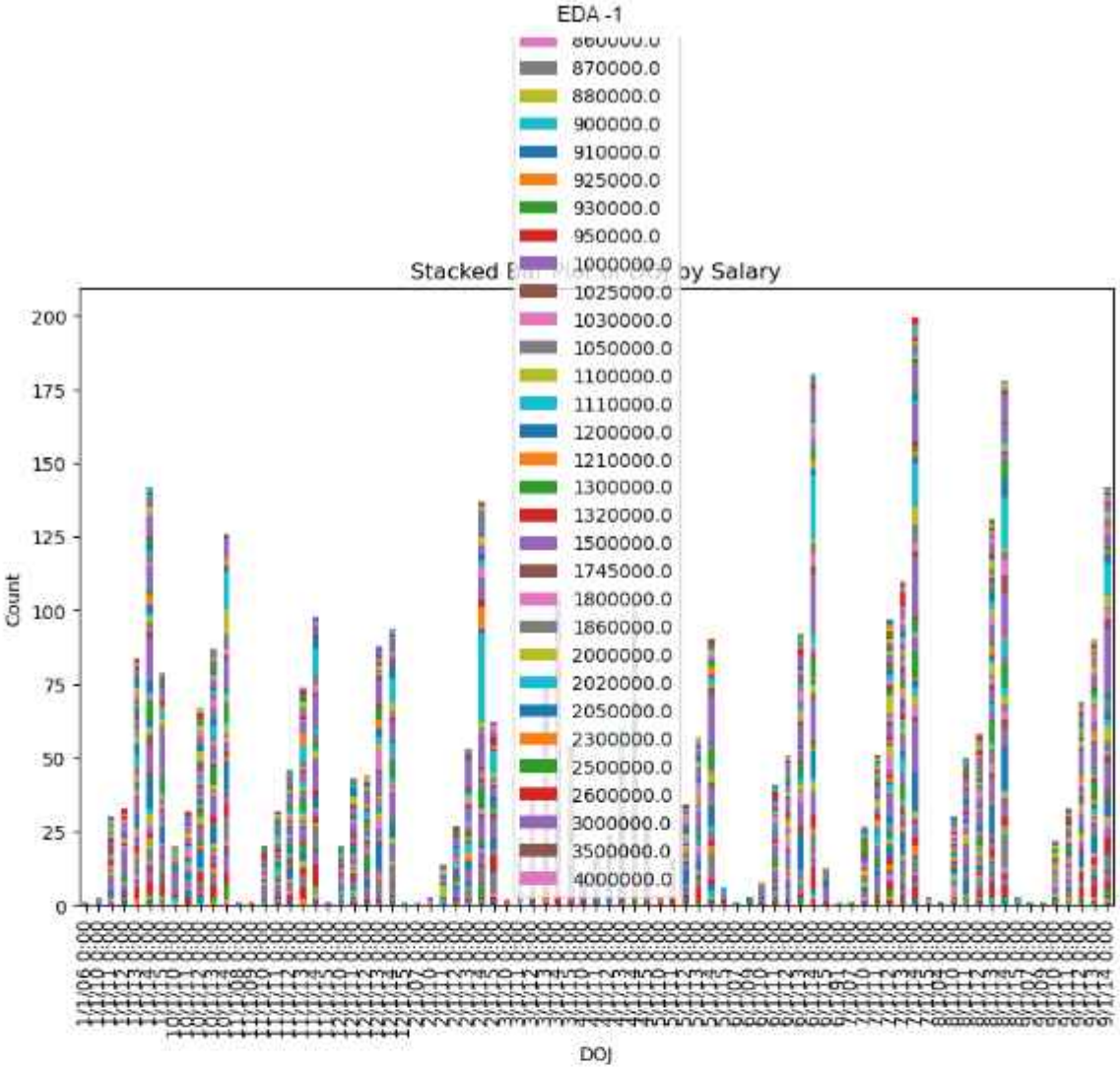
845000.0
850000.0


EDA -1
870000.0
880000.0
900000.0
910000.0
925000.0
930000.0
950000.0
1000000.0
1025000.0
1030000.0
1050000.0
1100000.0
1110000.0
1200000.0
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1300000.0
1320000.0
1500000.0
1745000.0
1800000.0
1860000.0
2000000.0
2020000.0
2050000.0
2300000.0
2500000.0
2600000.0
3000000.0
3500000.0
4000000.0
Count
0
25
50
75
100
125
150
175
200
DOJ

Salary
35000.0
40000.0
45000.0
50000.0
55000.0
60000.0
65000.0
70000.0
75000.0
80000.0
85000.0
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390000.0

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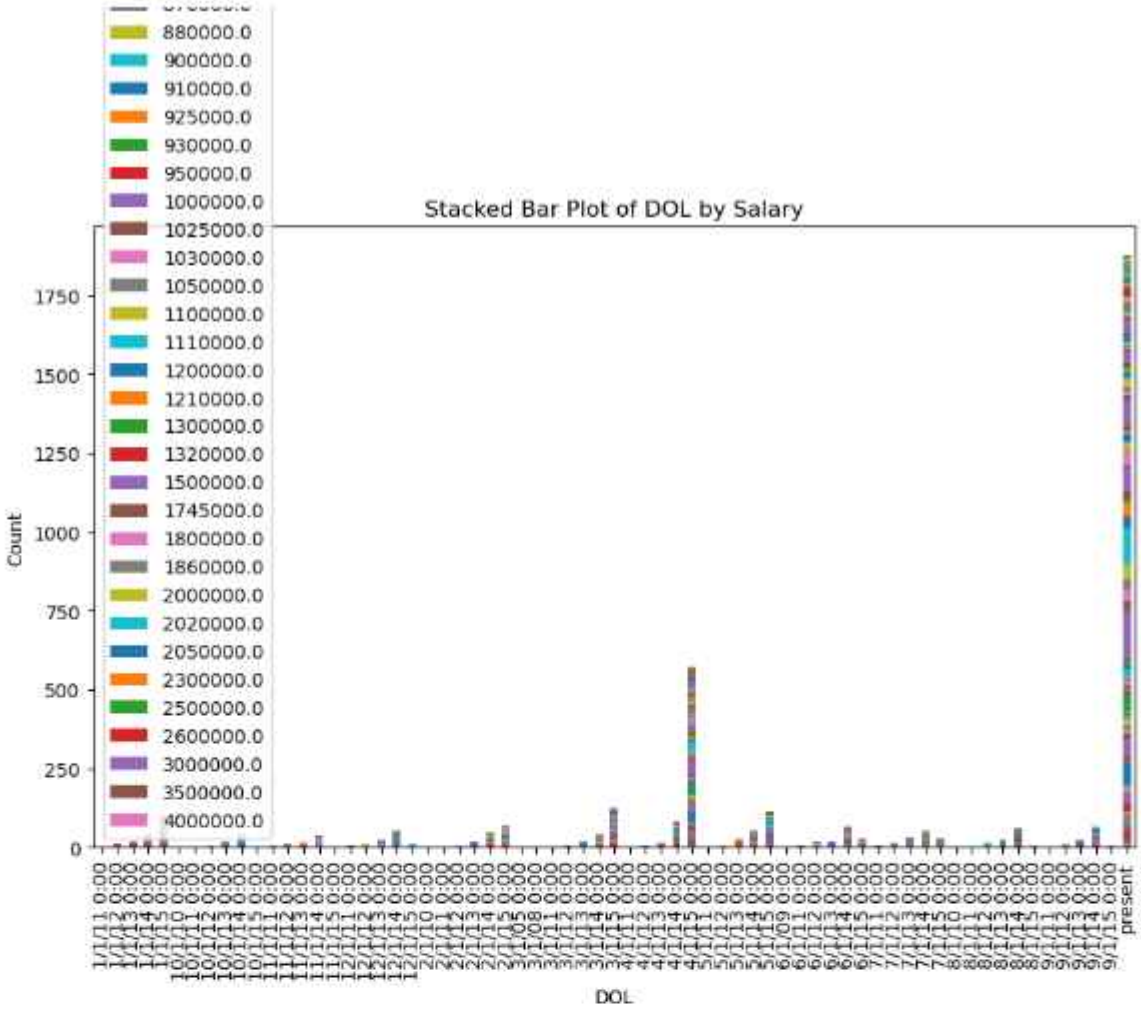
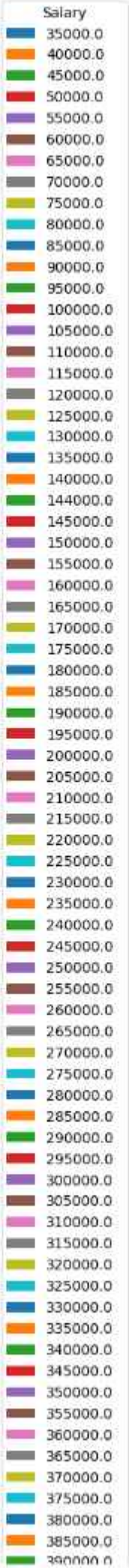

Stacked Bar Plot of DOL by Salary
880000.0
900000.0
910000.0
925000.0
930000.0
950000.0
1000000.0
1025000.0
1030000.0
1050000.0
1100000.0
1110000.0
1200000.0
1210000.0
1300000.0
1320000.0
1500000.0
1745000.0
1800000.0
1860000.0
2000000.0
2020000.0
2050000.0
2300000.0
2500000.0
2600000.0
3000000.0
3500000.0
4000000.0
Count
0
250
500
750
1000
1250
1500
1750
DOL
present


Salary
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45000.0
50000.0
55000.0
60000.0
65000.0
70000.0
75000.0
80000.0
85000.0
90000.0
95000.0
100000.0
105000.0
110000.0
115000.0
120000.0
125000.0
130000.0
135000.0
140000.0
144000.0
145000.0
150000.0
155000.0
160000.0
165000.0
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175000.0
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185000.0
190000.0
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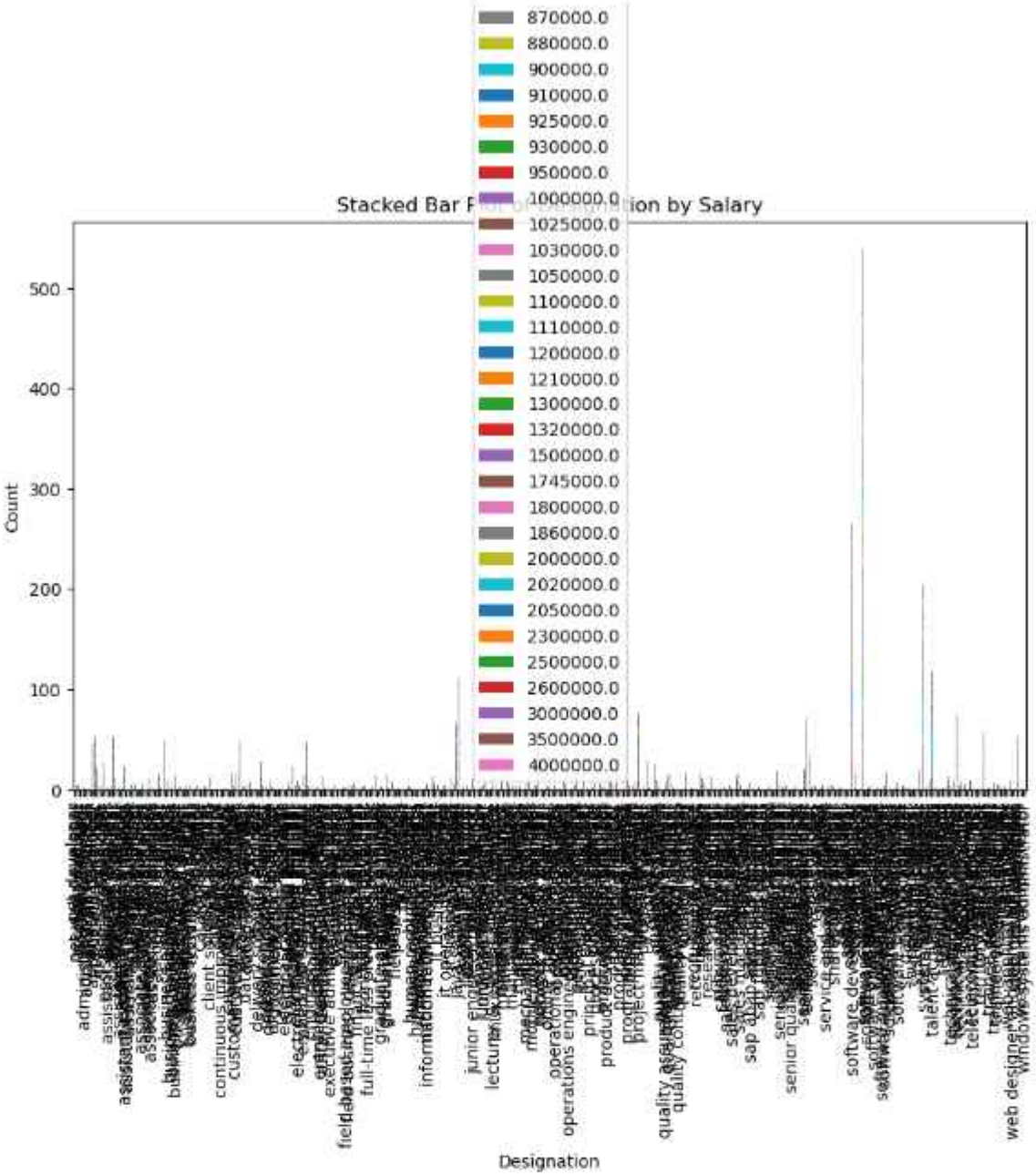
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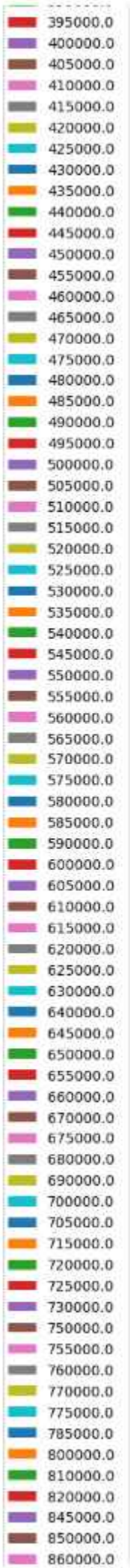
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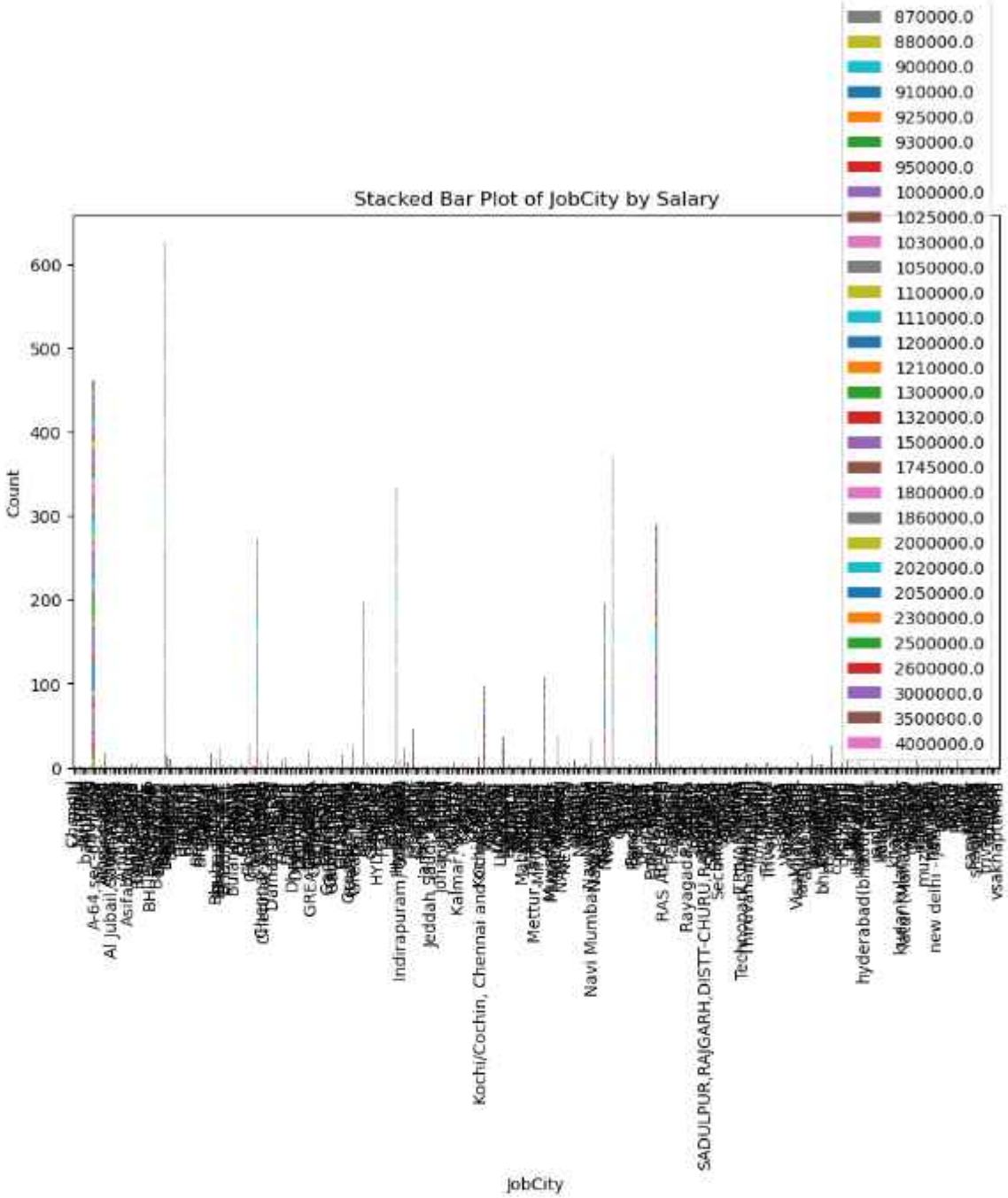
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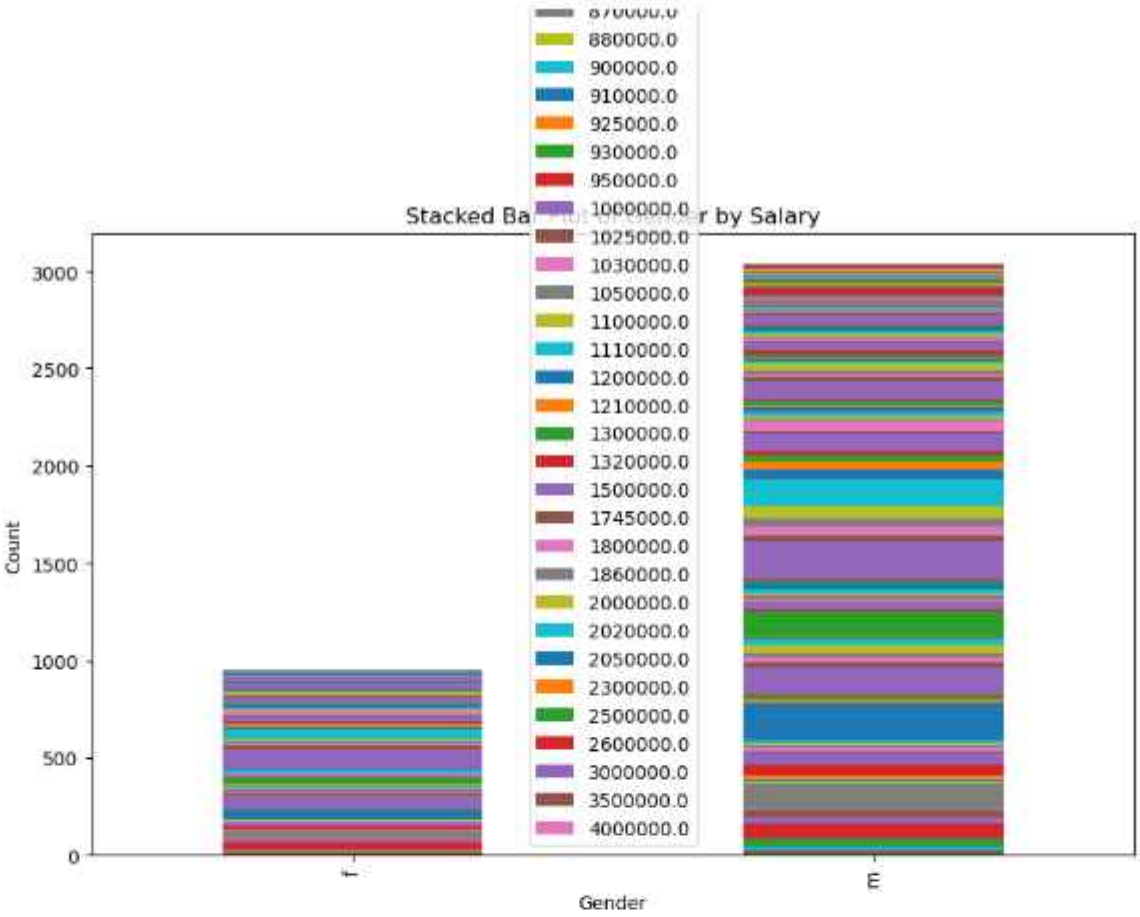
Stacked Ba r by Salary
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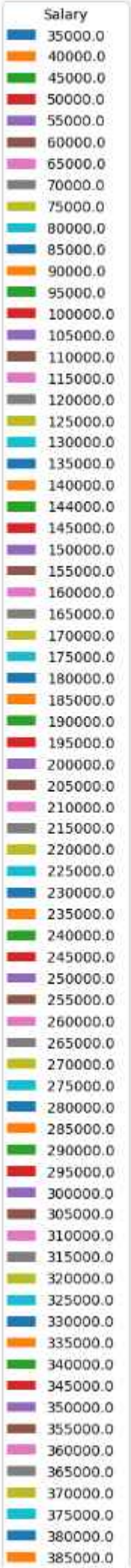
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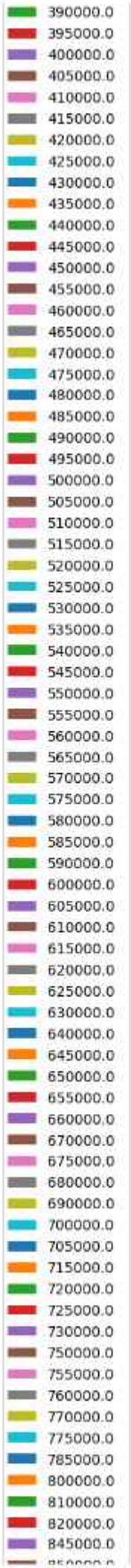
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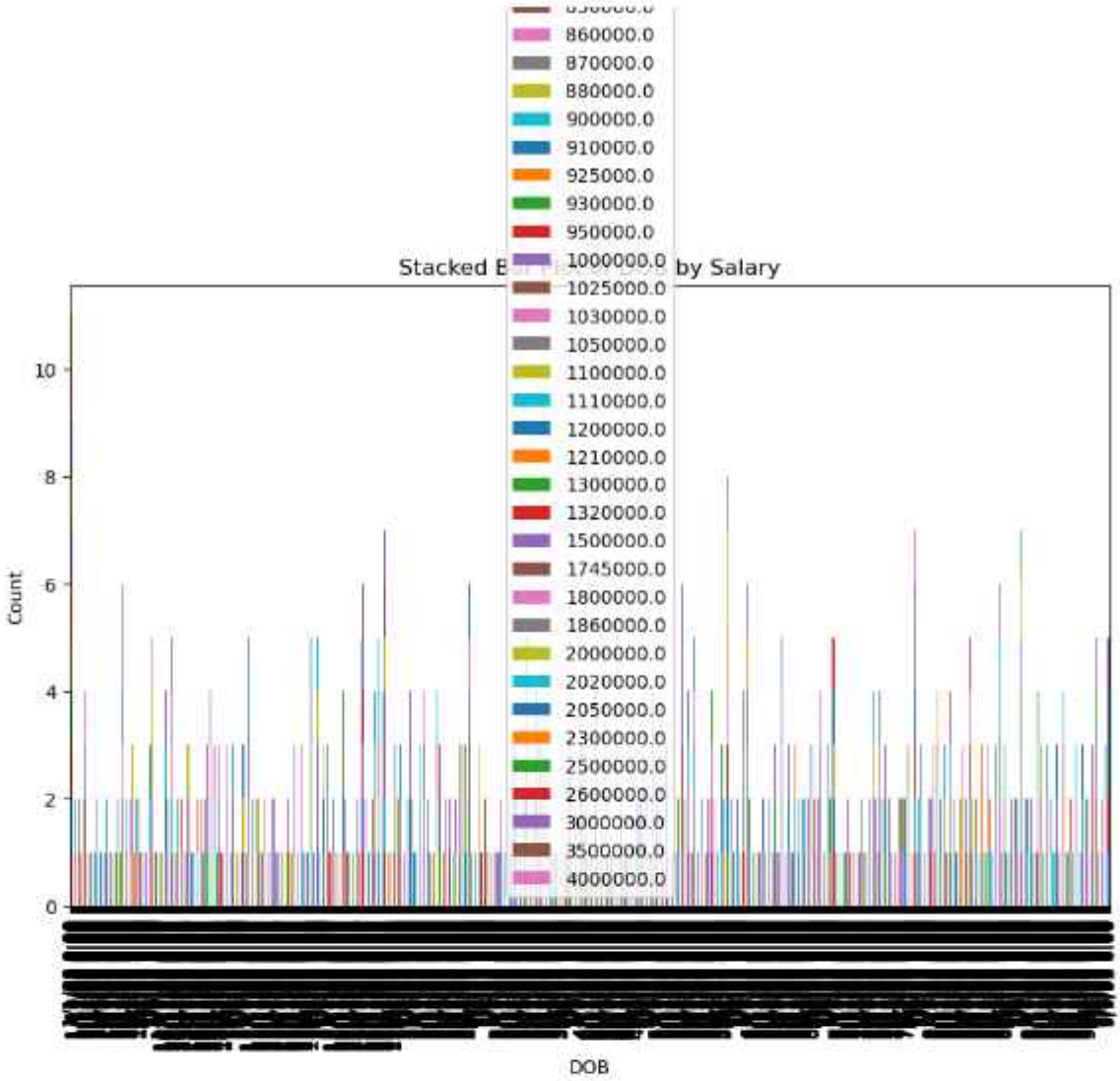
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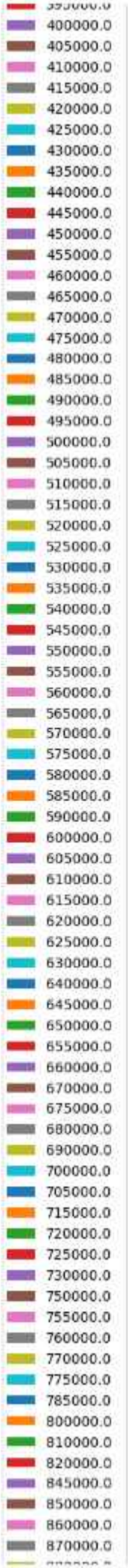
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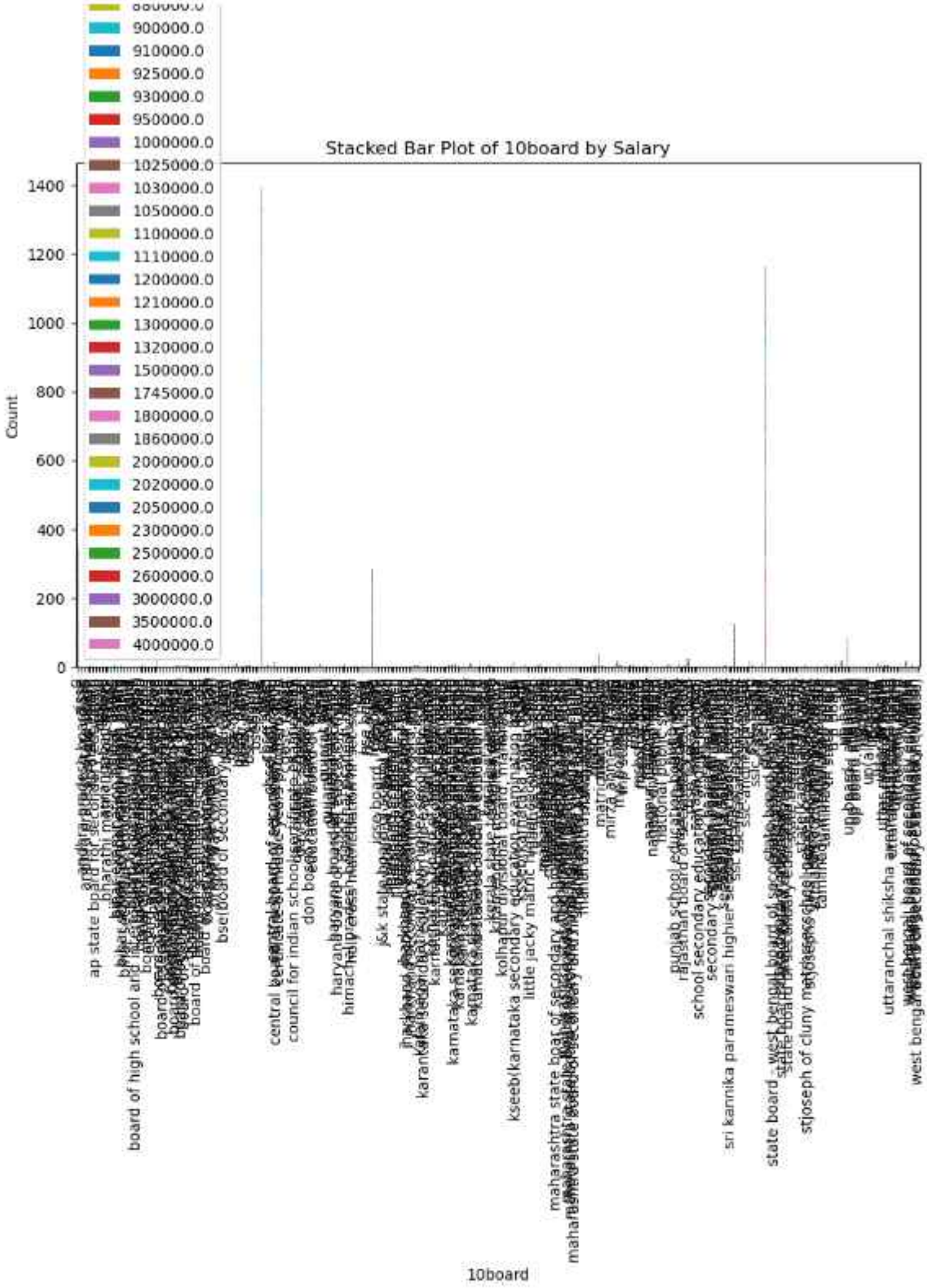
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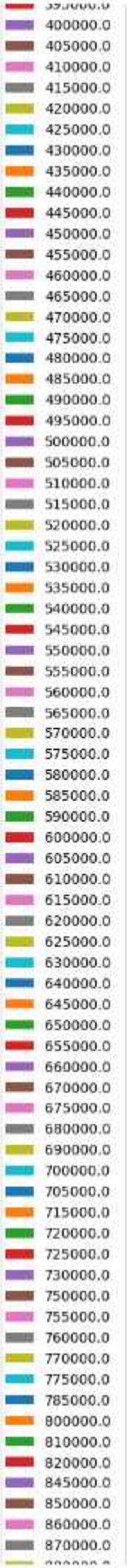
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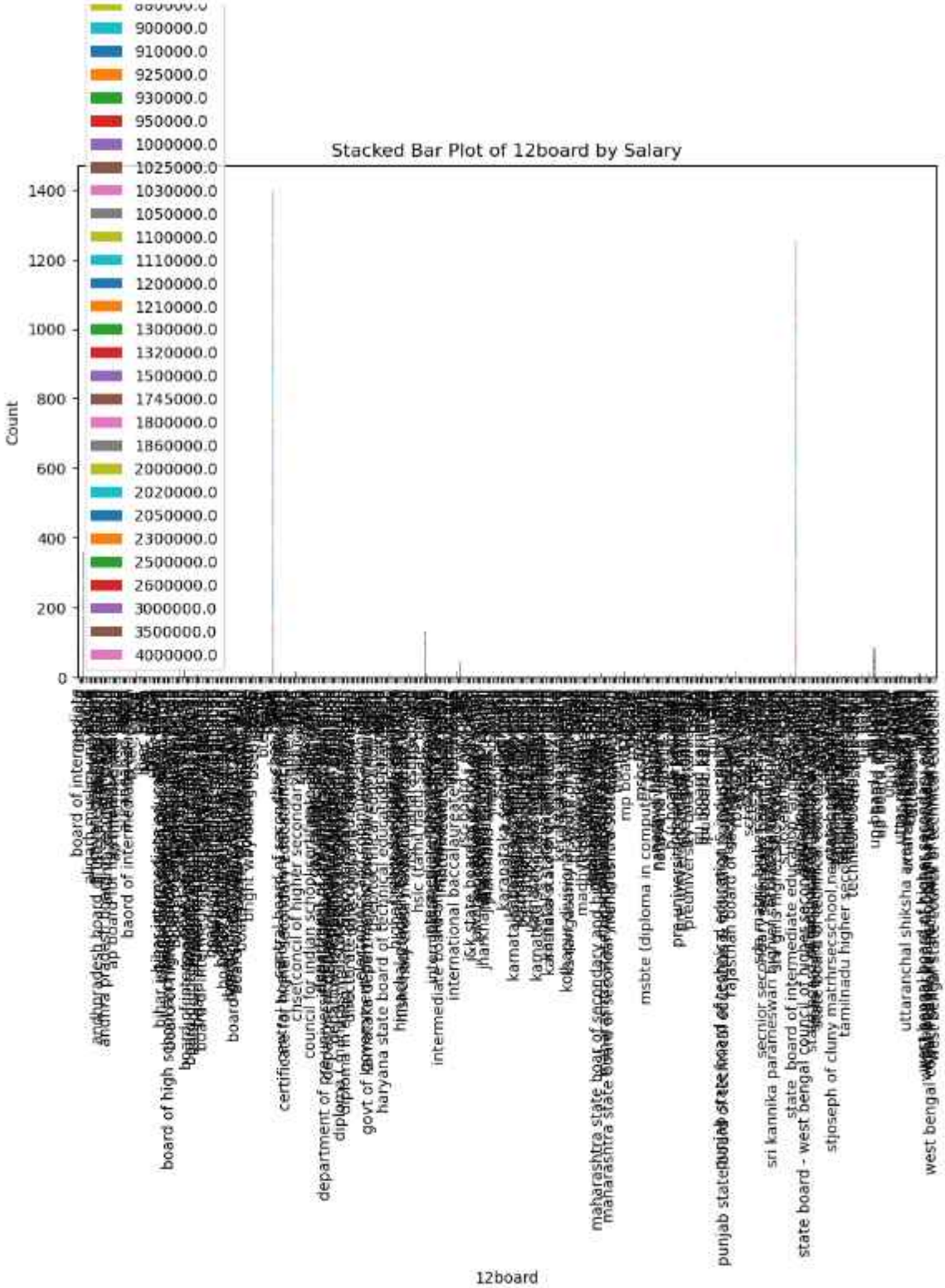
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280000.0
285000.0
290000.0
295000.0
300000.0
305000.0
310000.0
315000.0
320000.0
325000.0
330000.0
335000.0
340000.0
345000.0
350000.0
355000.0
360000.0
365000.0
370000.0
375000.0
380000.0
385000.0
390000.0

395000.0
400000.0
405000.0
410000.0
415000.0
420000.0
425000.0
430000.0
435000.0
440000.0
445000.0
450000.0
455000.0
460000.0
465000.0
470000.0
475000.0
480000.0
485000.0
490000.0
495000.0
500000.0
505000.0
510000.0
515000.0
520000.0
525000.0
530000.0
535000.0
540000.0
545000.0
550000.0
555000.0
560000.0
565000.0
570000.0
575000.0
580000.0
585000.0
590000.0
600000.0
605000.0
610000.0
615000.0
620000.0
625000.0
630000.0
640000.0
645000.0
650000.0
655000.0
660000.0
670000.0
675000.0
680000.0
690000.0
700000.0
705000.0
715000.0
720000.0
725000.0
730000.0
750000.0
755000.0
760000.0
770000.0
775000.0
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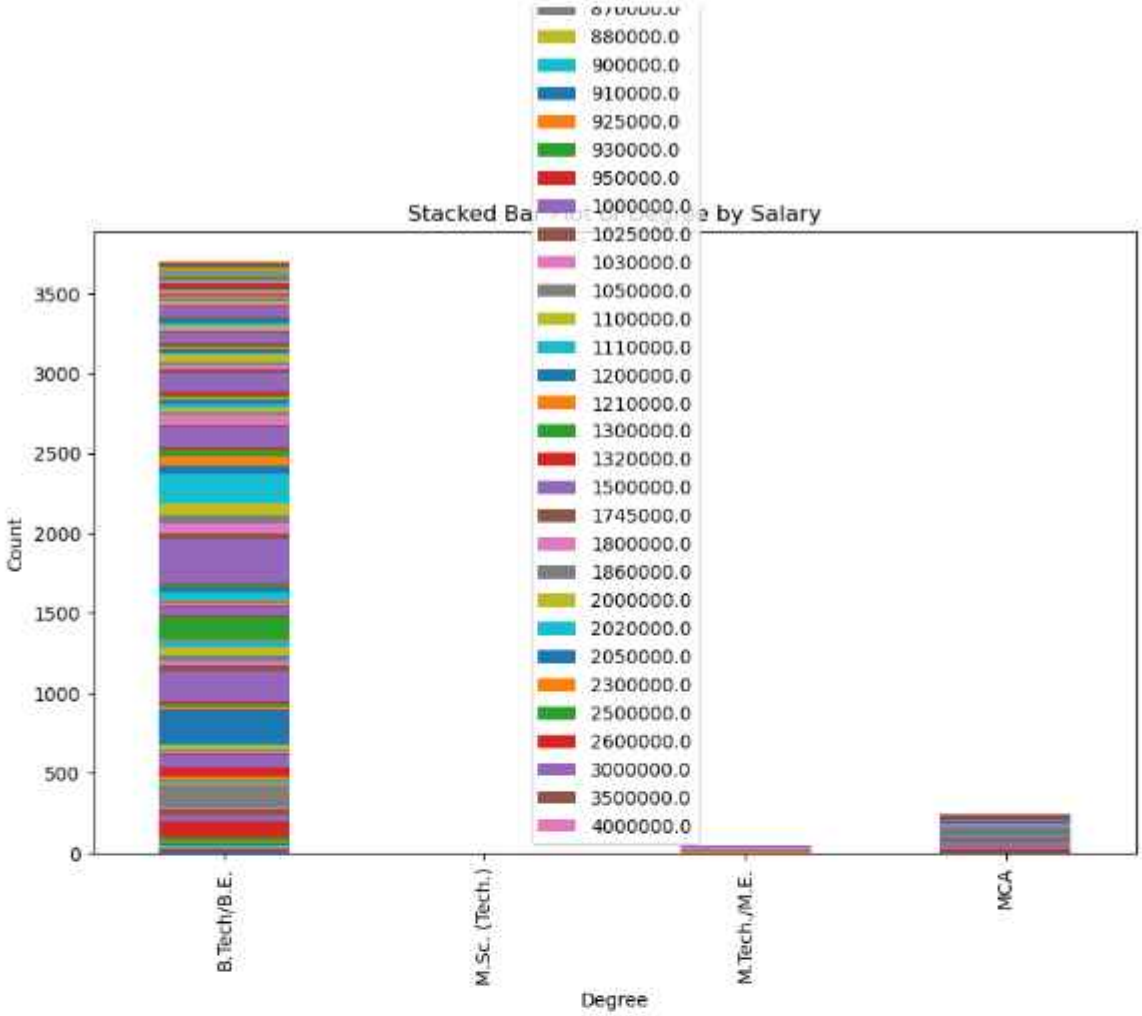
800000.0
810000.0
820000.0
845000.0
850000.0
860000.0

EDA -1


Stacked Ba e by Salary
Count
3500
3000
2500
2000
1500
1000
500
0
B.Tech/B.E.
M.Sc. (Tech.)
M.Tech./M.E.
MCA
Degree
880000.0
900000.0
910000.0
925000.0
930000.0
950000.0
1000000.0
1025000.0
1030000.0
1050000.0
1100000.0
1110000.0
1200000.0
1210000.0
1300000.0
1320000.0
1500000.0
1745000.0
1800000.0
1860000.0
2000000.0
2020000.0
2050000.0
2300000.0
2500000.0
2600000.0
3000000.0
3500000.0
4000000.0

Salary
35000.0
40000.0
45000.0
50000.0
55000.0
60000.0
65000.0
70000.0
75000.0
80000.0
85000.0
90000.0
95000.0
100000.0
105000.0
110000.0
115000.0
120000.0
125000.0
130000.0
135000.0
140000.0
144000.0
145000.0
150000.0
155000.0
160000.0
165000.0
170000.0
175000.0
180000.0
185000.0
190000.0
195000.0
200000.0
205000.0
210000.0
215000.0
220000.0
225000.0
230000.0
235000.0
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245000.0
250000.0
255000.0
260000.0
265000.0
270000.0
275000.0
280000.0
285000.0
290000.0
295000.0
300000.0
305000.0
310000.0
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320000.0
325000.0
330000.0
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485000.0
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615000.0
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630000.0
640000.0
645000.0
650000.0
655000.0
660000.0
670000.0
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750000.0
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810000.0
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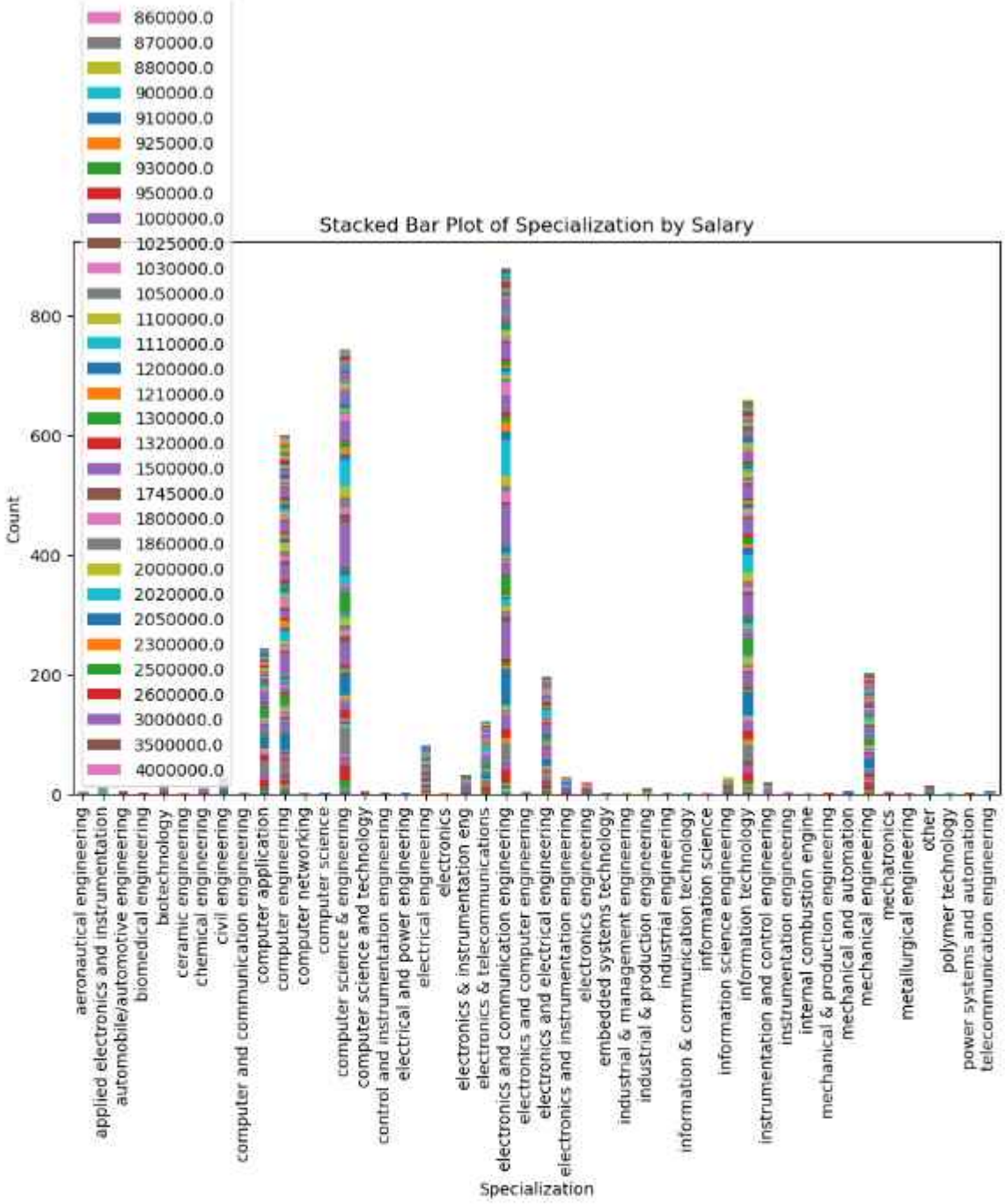
850000.0


Stacked Bar Plot of Specialization by Salary
Count
Specialization
0
200
400
600
800
860000.0
870000.0
880000.0
900000.0
910000.0
925000.0
930000.0
950000.0
1000000.0
1025000.0
1030000.0
1050000.0
1100000.0
1110000.0
1200000.0
1210000.0
1300000.0
1320000.0
1500000.0
1745000.0
1800000.0
1860000.0
2000000.0
2020000.0
2050000.0
2300000.0
2500000.0
2600000.0
3000000.0
3500000.0
4000000.0
aeronautical engineering
applied electronics and instrumentation
automobile/automotive engineering
biomedical engineering
biotechnology
ceramic engineering
chemical engineering
civil engineering
computer and communication engineering
computer application
computer engineering
computer networking
computer science
computer science & engineering
computer science and technology
control and instrumentation engineering
electrical and power engineering
electrical engineering
electronics
electronics & instrumentation eng
electronics & telecommunications
electronics and communication engineering
electronics and computer engineering
electronics and electrical engineering
electronics and instrumentation engineering
electronics engineering
embedded systems technology
industrial & management engineering
industrial & production engineering
industrial engineering
information & communication technology
information science
information science engineering
information technology
instrumentation and control engineering
instrumentation engineering
internal combustion engine
mechanical & production engineering
mechanical and automation
mechanical engineering
mechatronics
metallurgical engineering
other
polymer technology
power systems and automation
telecommunication engineering

Salary
35000.0
40000.0
45000.0
50000.0
55000.0
60000.0
65000.0
70000.0
75000.0
80000.0
85000.0
90000.0
95000.0
100000.0
105000.0
110000.0
115000.0
120000.0
125000.0
130000.0
135000.0
140000.0
144000.0
145000.0
150000.0
155000.0
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175000.0
180000.0
185000.0
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205000.0
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215000.0
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225000.0
230000.0
235000.0
240000.0
245000.0
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310000.0
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390000.0
395000.0
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405000.0
410000.0
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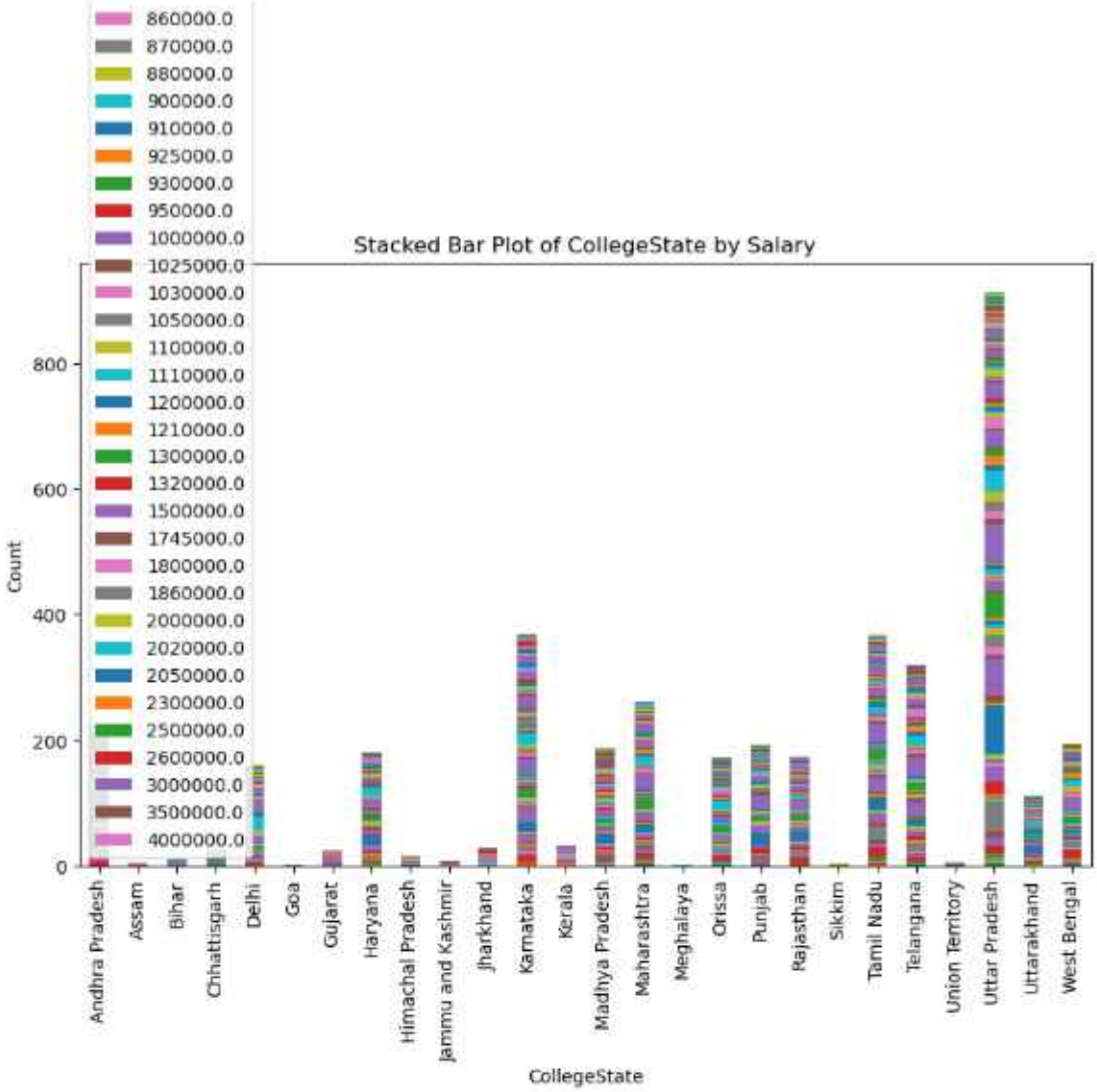
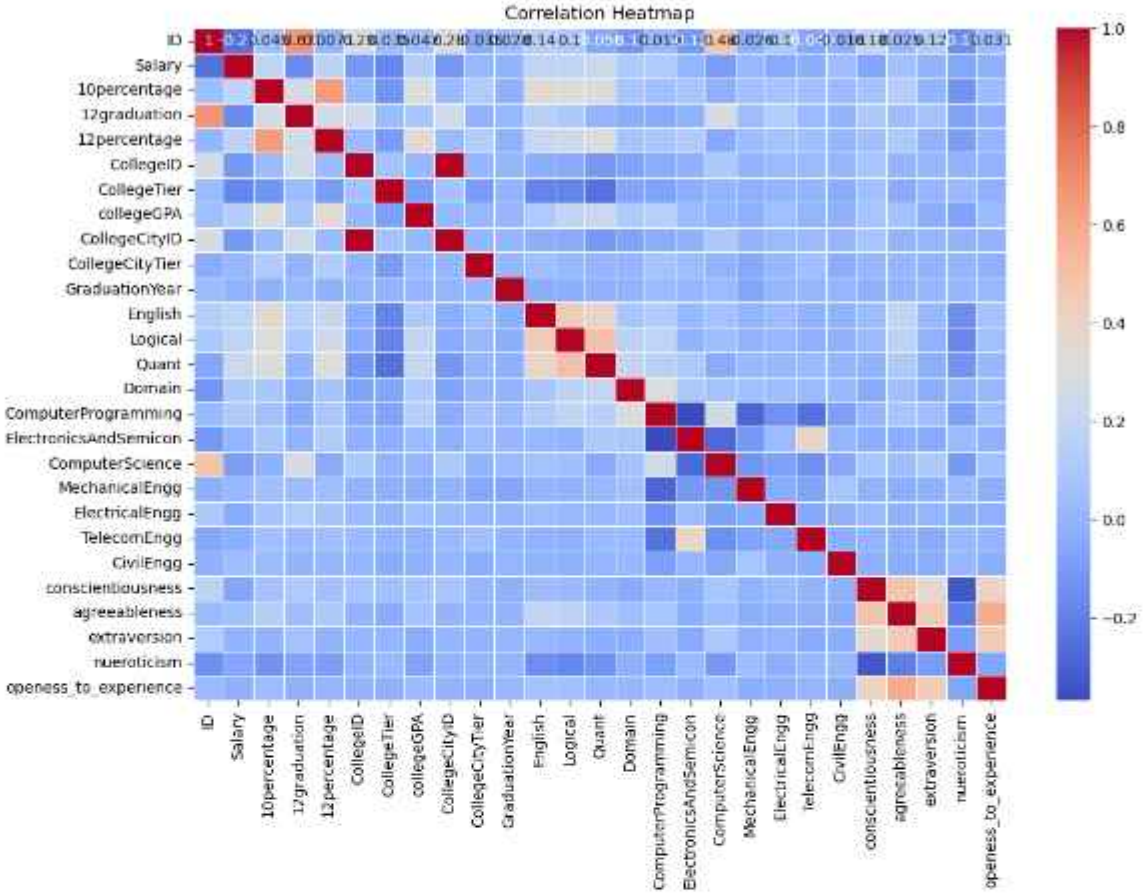


Pairplot to visualize relationships between numerical variables

In [ ]:
```
sns.pairplot(df[numerical_cols], diag_kind='kde', palette='husl')
plt.suptitle('Pairplot of Numerical Columns', y=1.02)
plt.show()
```

Correlation matrix and heatmap for numerical columns

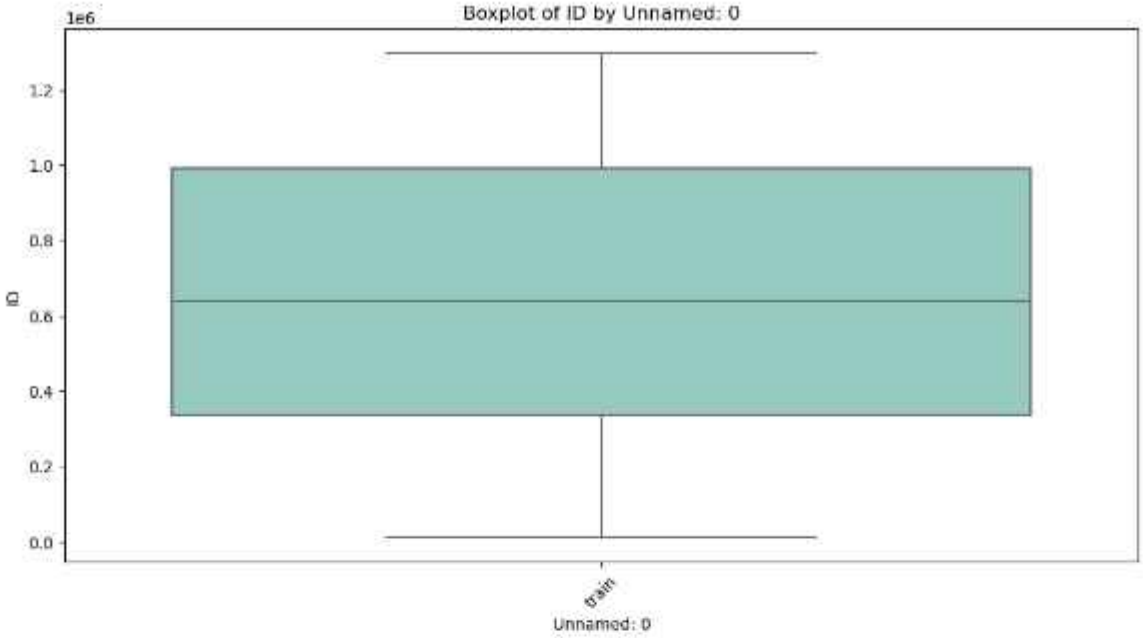
In [16]:
```
correlation_matrix = df[numerical_cols].corr()
plt.figure(figsize=(12, 8))
sns.heatmap(correlation_matrix, annot=True, cmap='coolwarm', linewidths=0.
5)
plt.title('Correlation Heatmap')
plt.show()
```

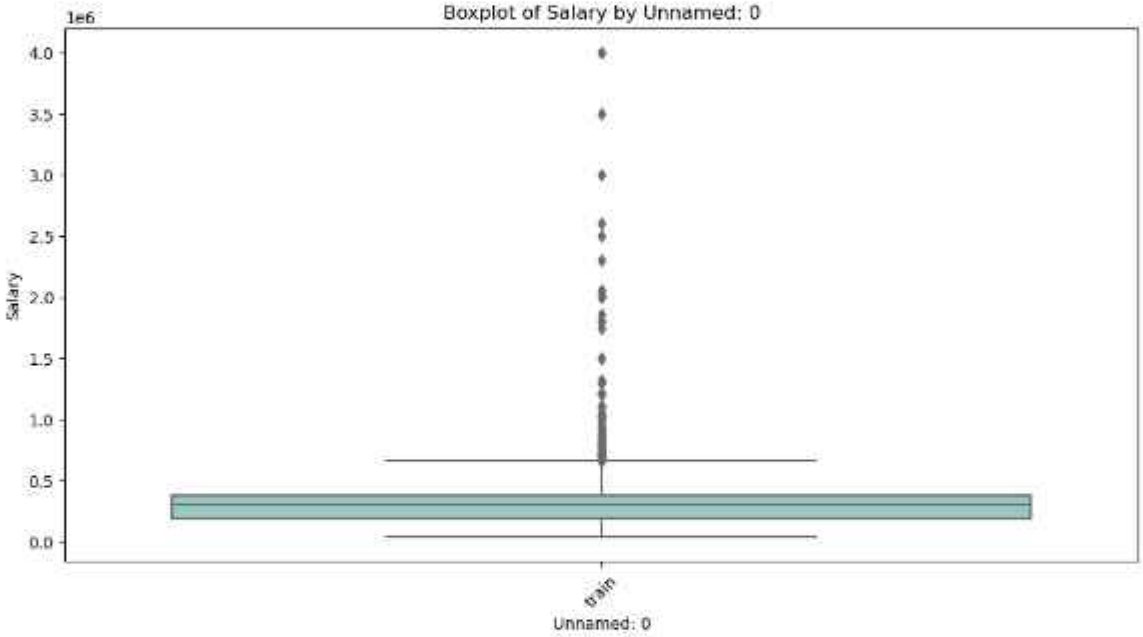


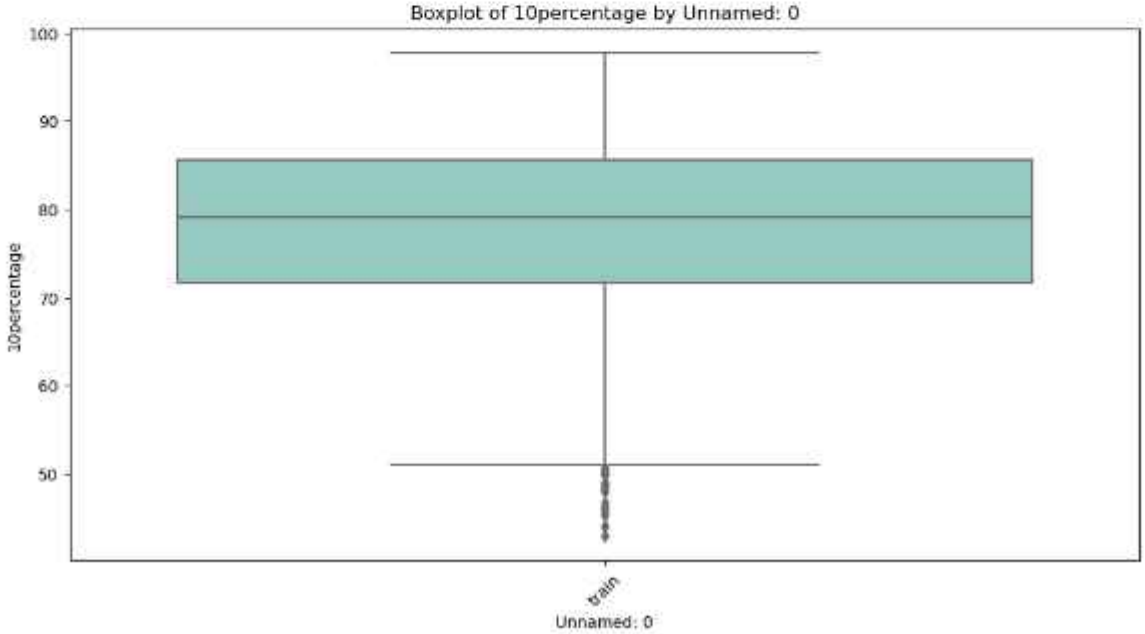
Numerical vs Categorical Analysis

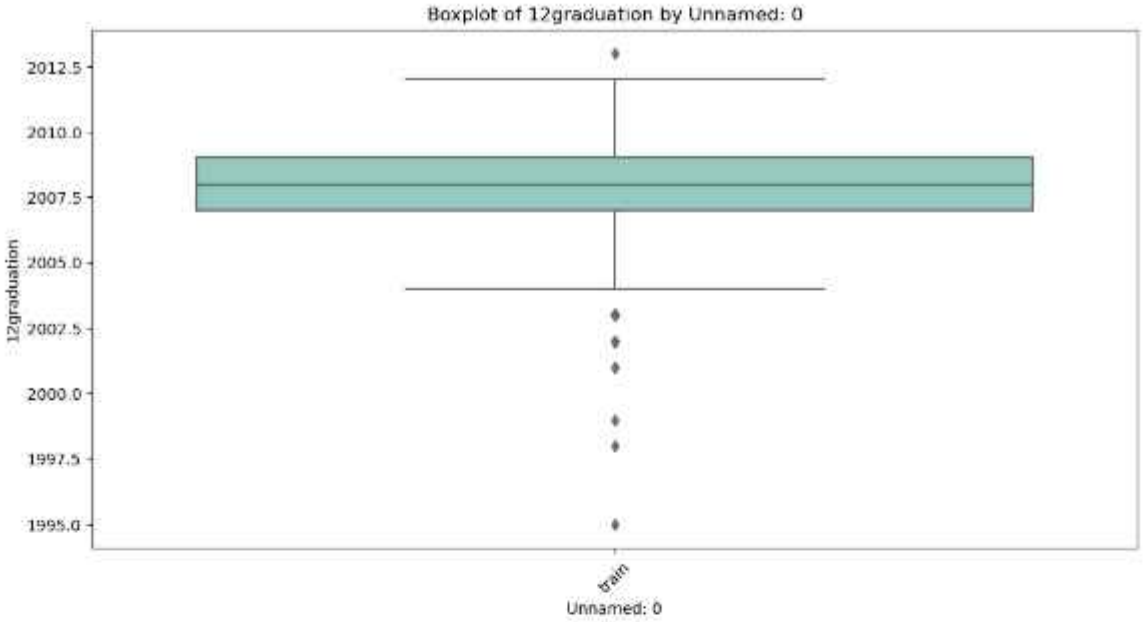
Boxplots to visualize the distribution of numerical variables for each category

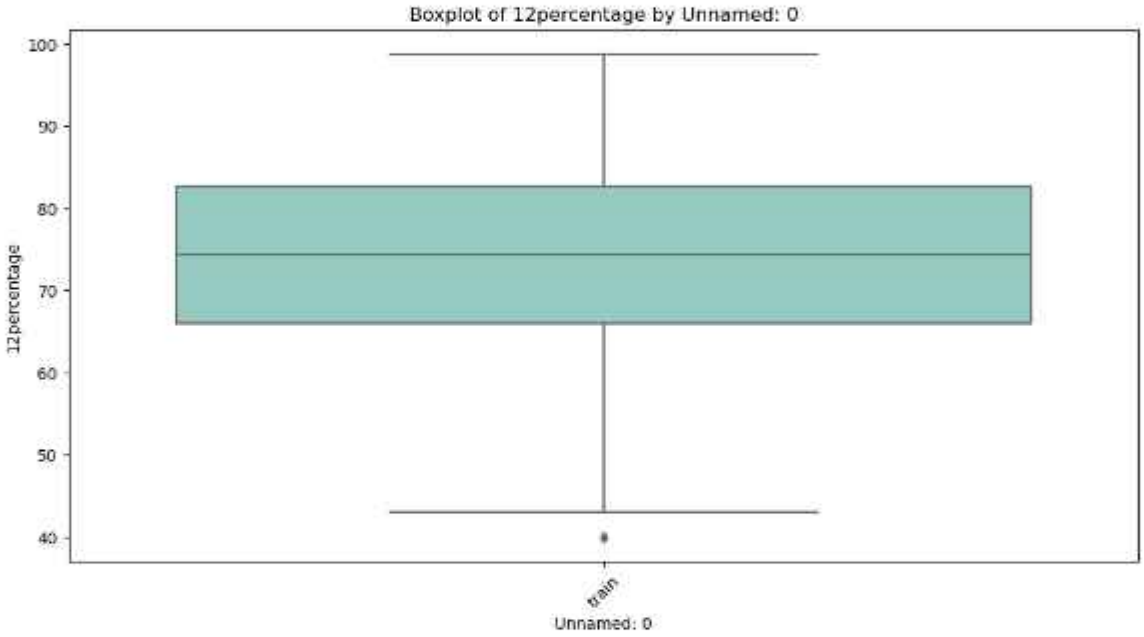
In [17]:
```
for col in categorical_cols:
    for num_col in numerical_cols:
        plt.figure(figsize=(12, 6))
        sns.boxplot(x=col, y=num_col, data=df, palette='Set3')
        plt.title(f'Boxplot of {num_col} by {col}')
        plt.xticks(rotation=45)
        plt.show()
```

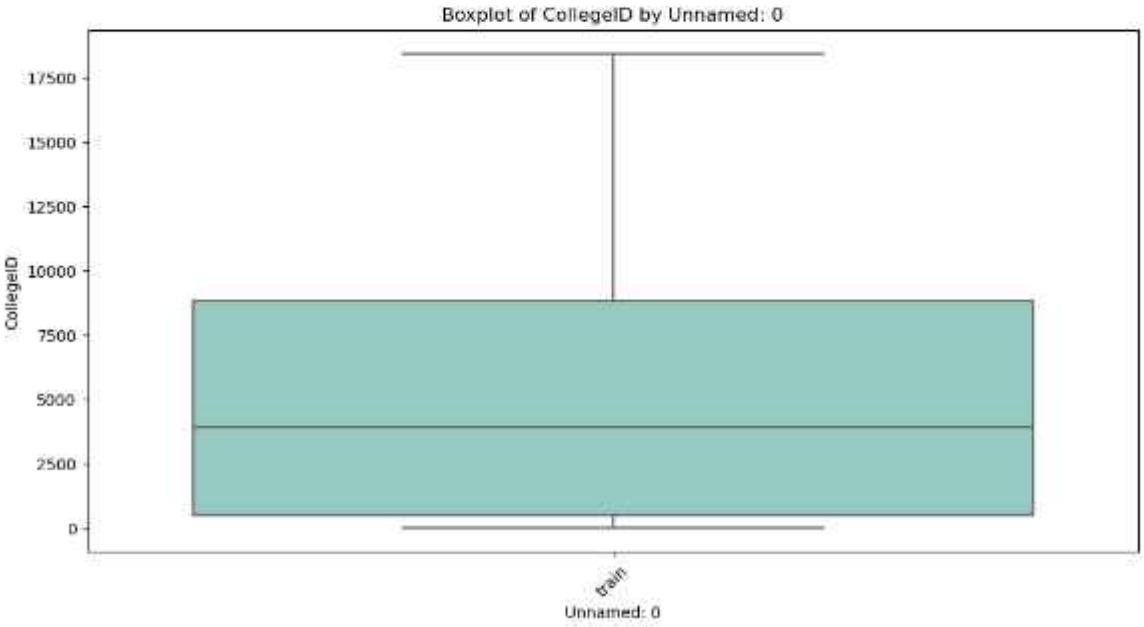

Boxplot of ID by Unnamed: 0
1e6
1.2
1.0
0.8
0.6
0.4
0.2
0.0
ID
train
Unnamed: 0

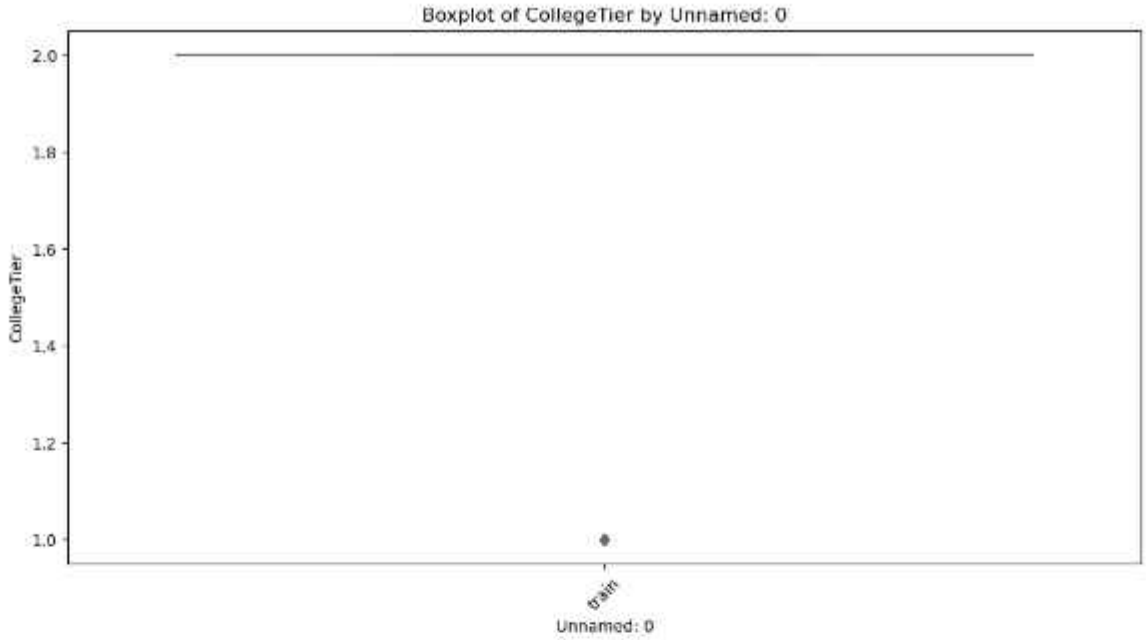

Boxplot of Salary by Unnamed: 0
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
train
Unnamed: 0

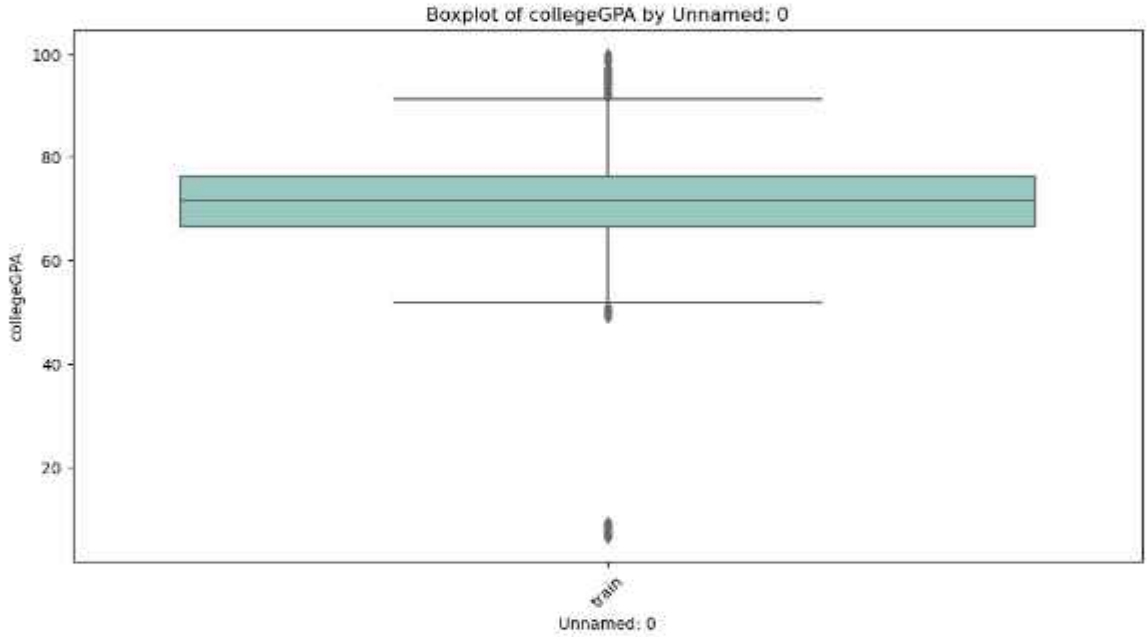

Boxplot of 10percentage by Unnamed: 0
100
90
80
70
60
50
10percentage
train
Unnamed: 0

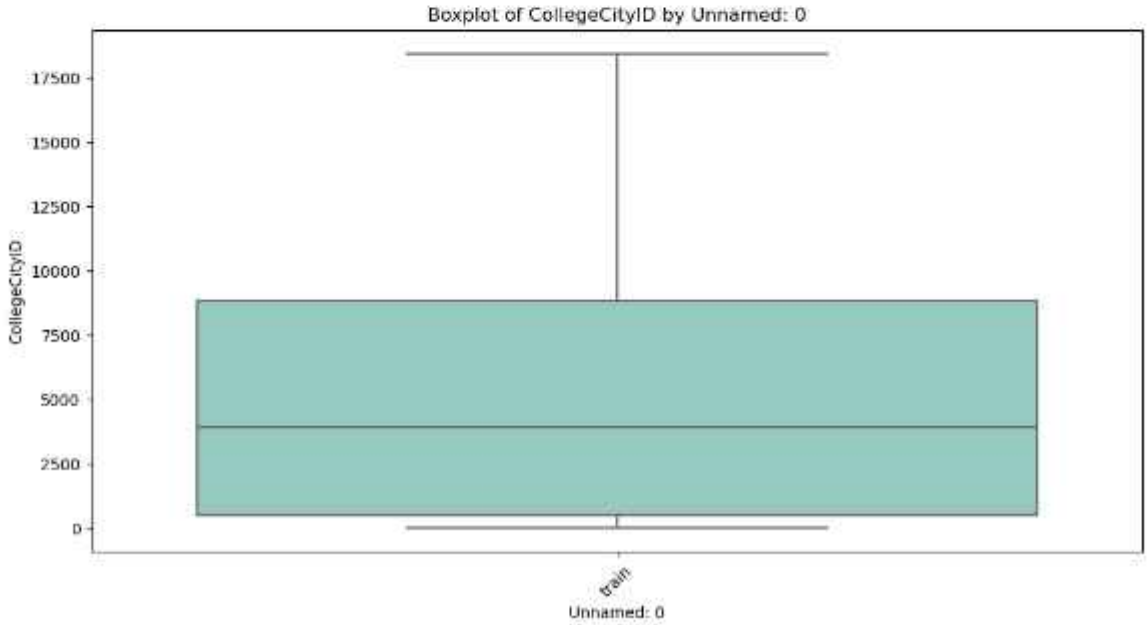

Boxplot of 12graduation by Unnamed: 0
2012.5
2010.0
2007.5
2005.0
2002.5
2000.0
1997.5
1995.0
12graduation
train
Unnamed: 0

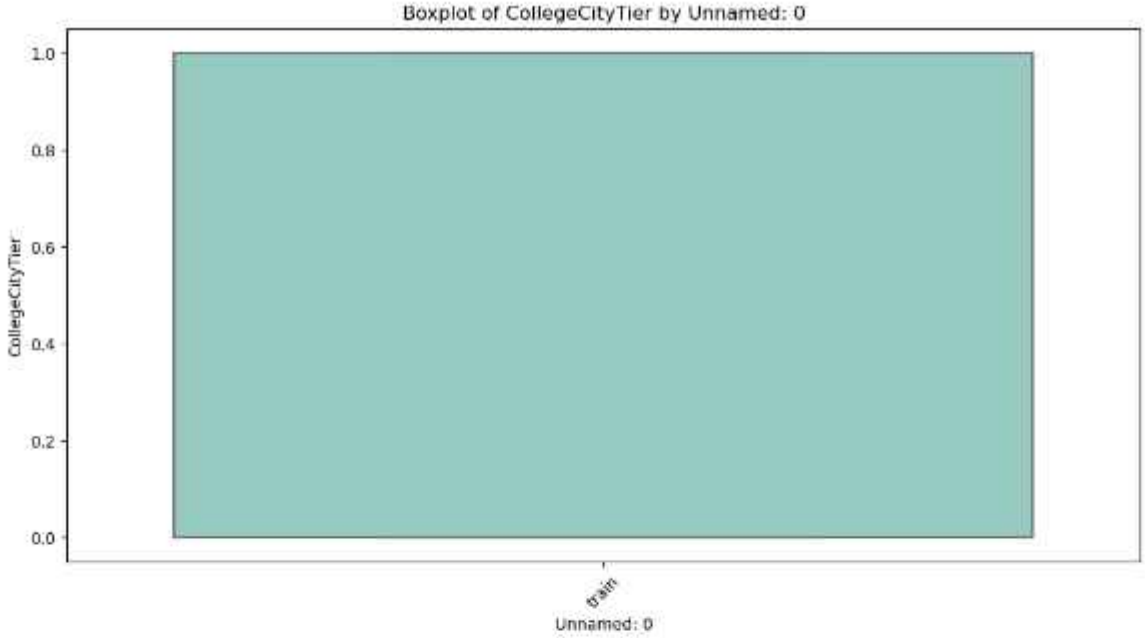

Boxplot of 12percentage by Unnamed: 0
100
90
80
70
60
50
40
12percentage
train
Unnamed: 0

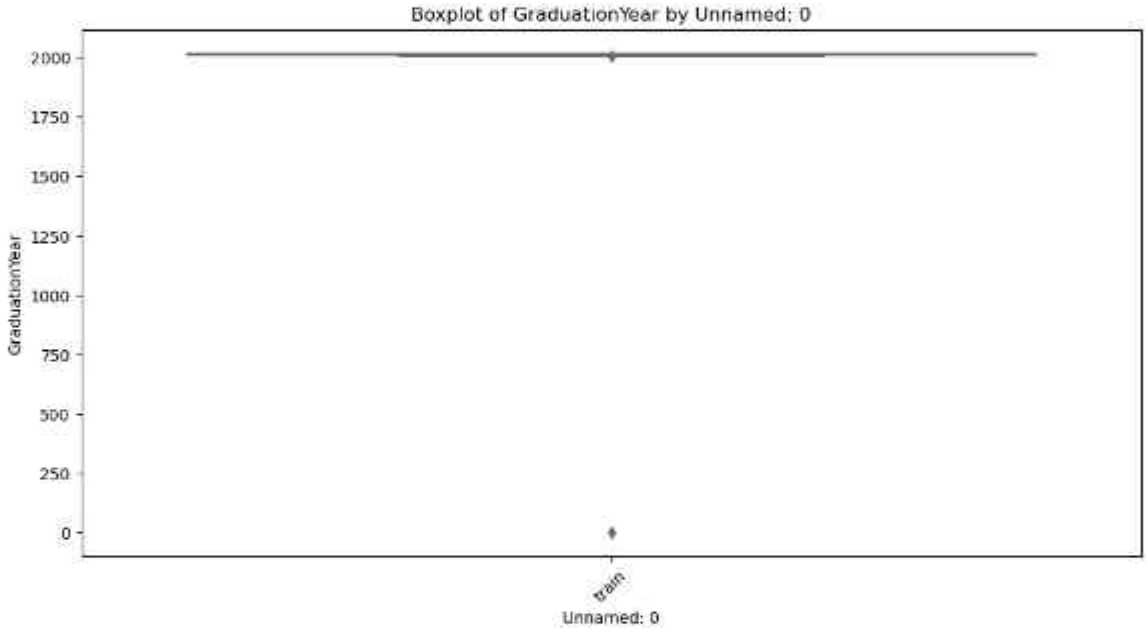

Boxplot of CollegeID by Unnamed: 0
17500
15000
12500
10000
7500
5000
2500
0
CollegeID
train
Unnamed: 0

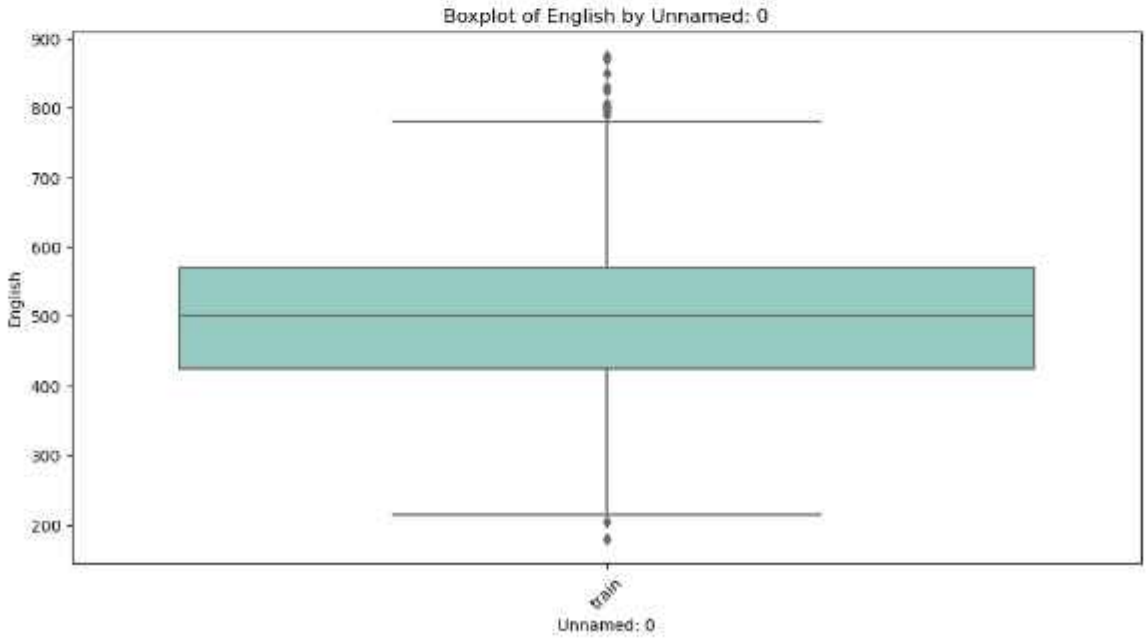

Boxplot of CollegeTier by Unnamed: 0
CollegeTier
2.0
1.8
1.6
1.4
1.2
1.0
train
Unnamed: 0

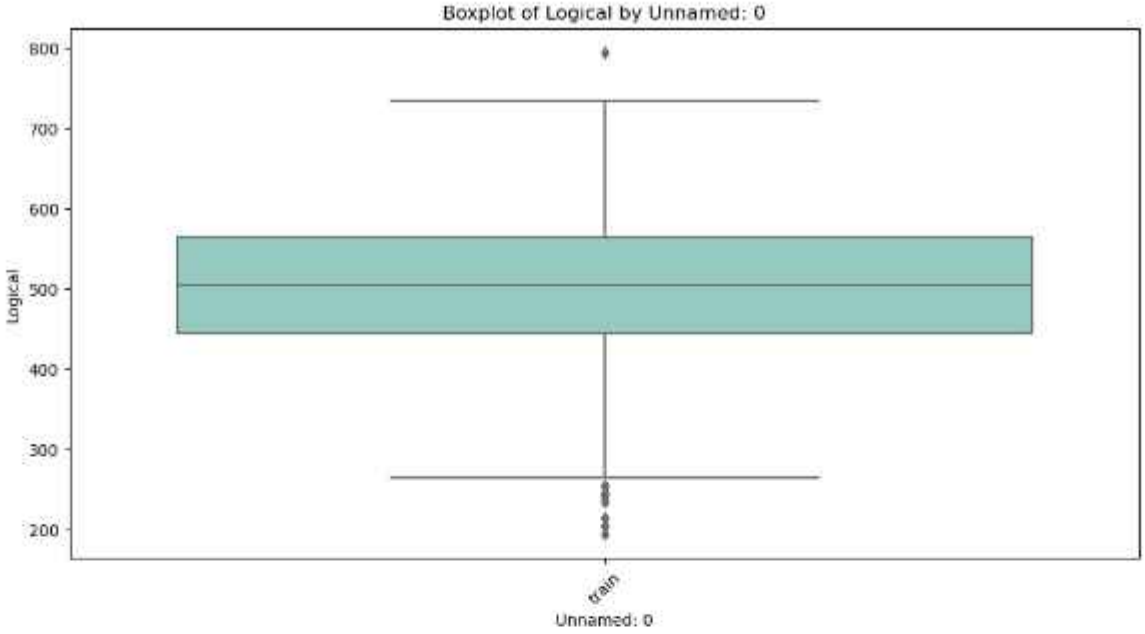

Boxplot of collegeGPA by Unnamed: 0
collegeGPA
100
80
60
40
20
train
Unnamed: 0

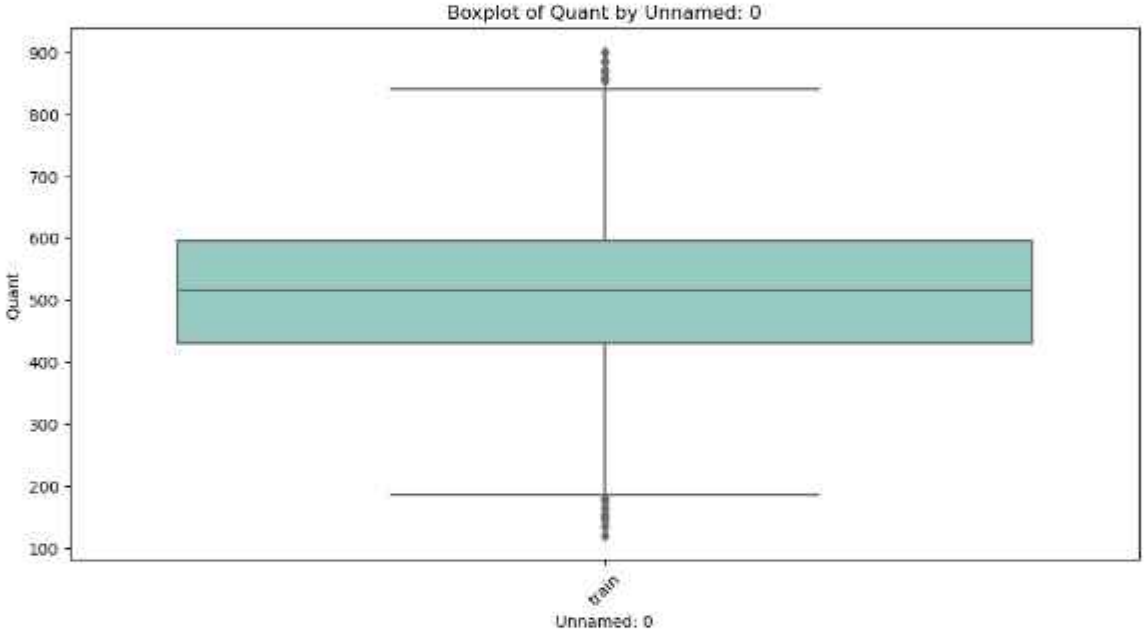

Boxplot of CollegeCityID by Unnamed: 0
CollegeCityID
17500
15000
12500
10000
7500
5000
2500
0
train
Unnamed: 0

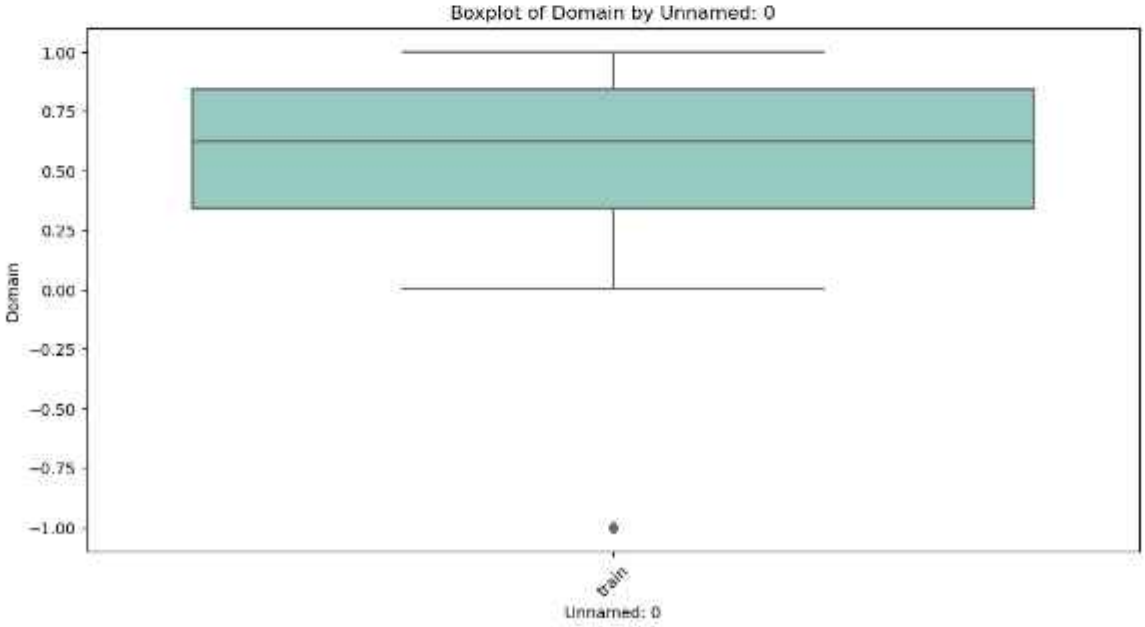

Boxplot of CollegeCityTier by Unnamed: 0
CollegeCityTier
1.0
0.8
0.6
0.4
0.2
0.0
train
Unnamed: 0

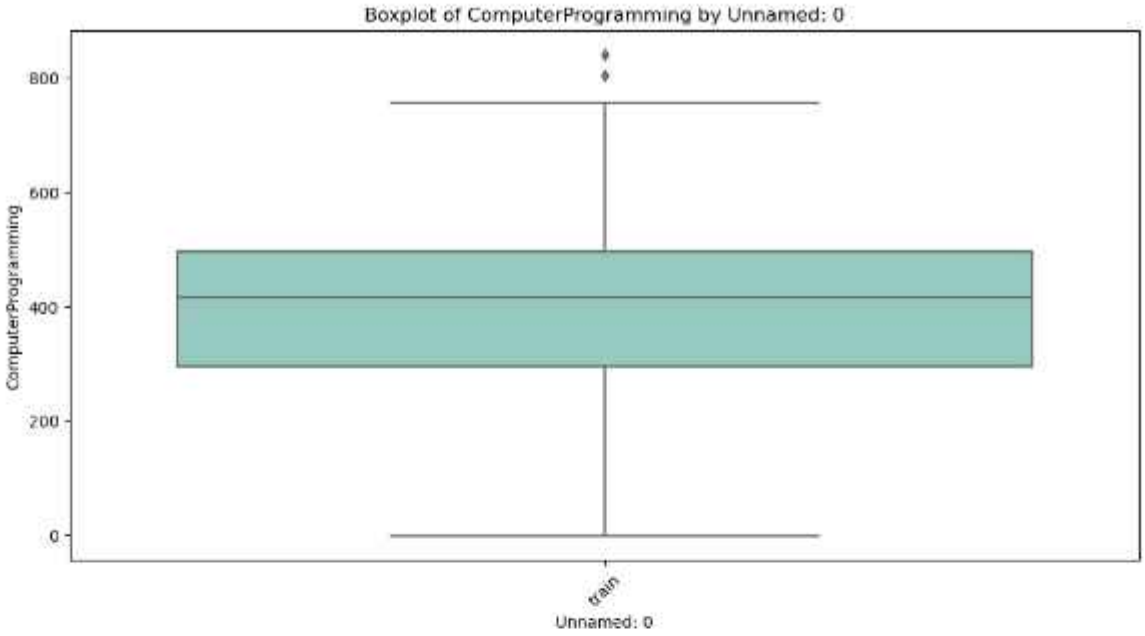

Boxplot of GraduationYear by Unnamed: 0
GraduationYear
2000
1750
1500
1250
1000
750
500
250
0
train
Unnamed: 0

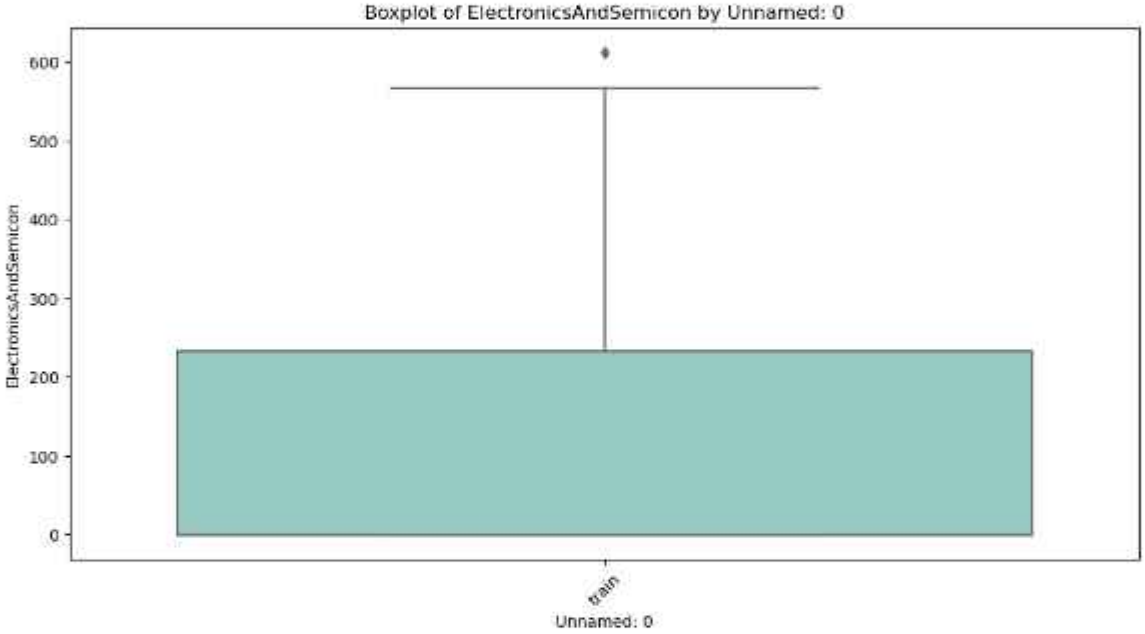

Boxplot of English by Unnamed: 0
English
900
800
700
600
500
400
300
200
train
Unnamed: 0

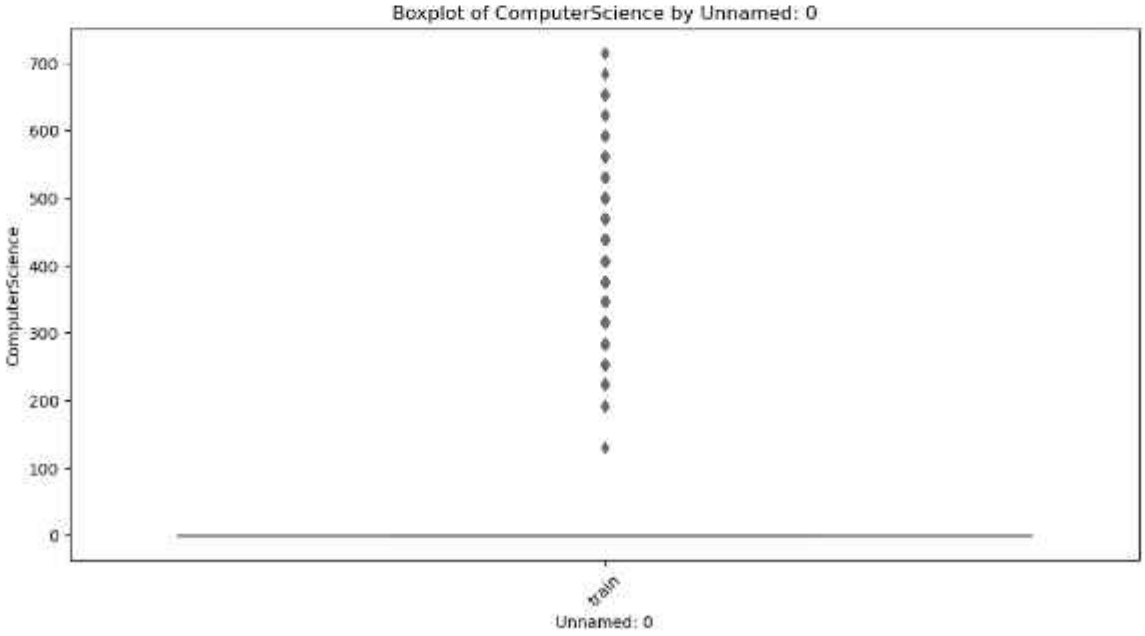

Boxplot of Logical by Unnamed: 0
Logical
800
700
600
500
400
300
200
train
Unnamed: 0

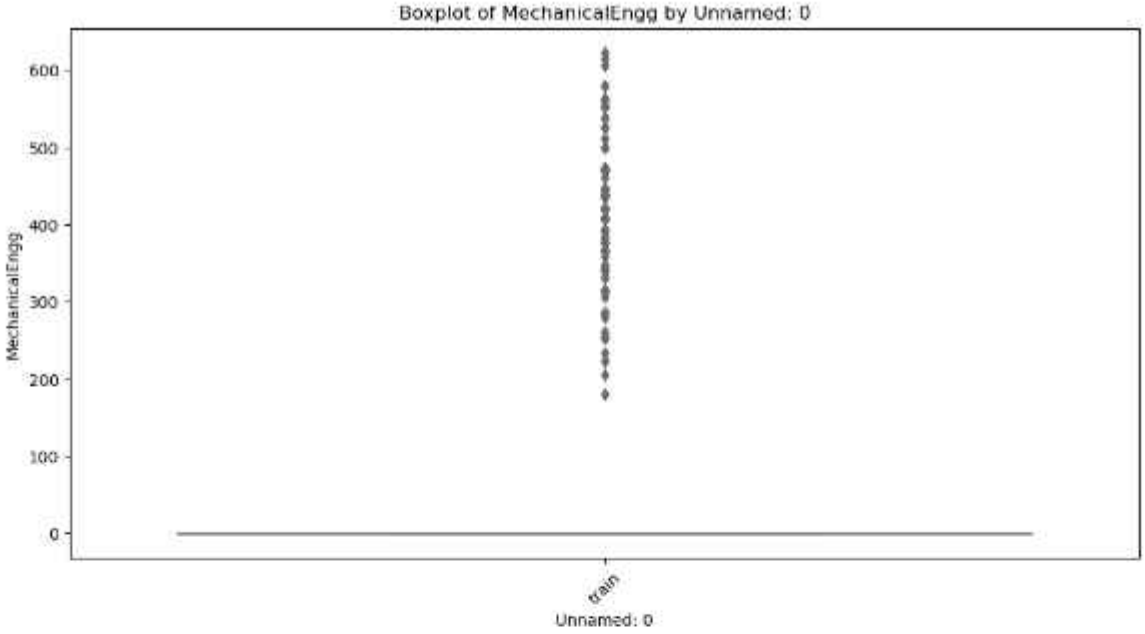

Boxplot of Quant by Unnamed: 0
Quant
900
800
700
600
500
400
300
200
100
train
Unnamed: 0

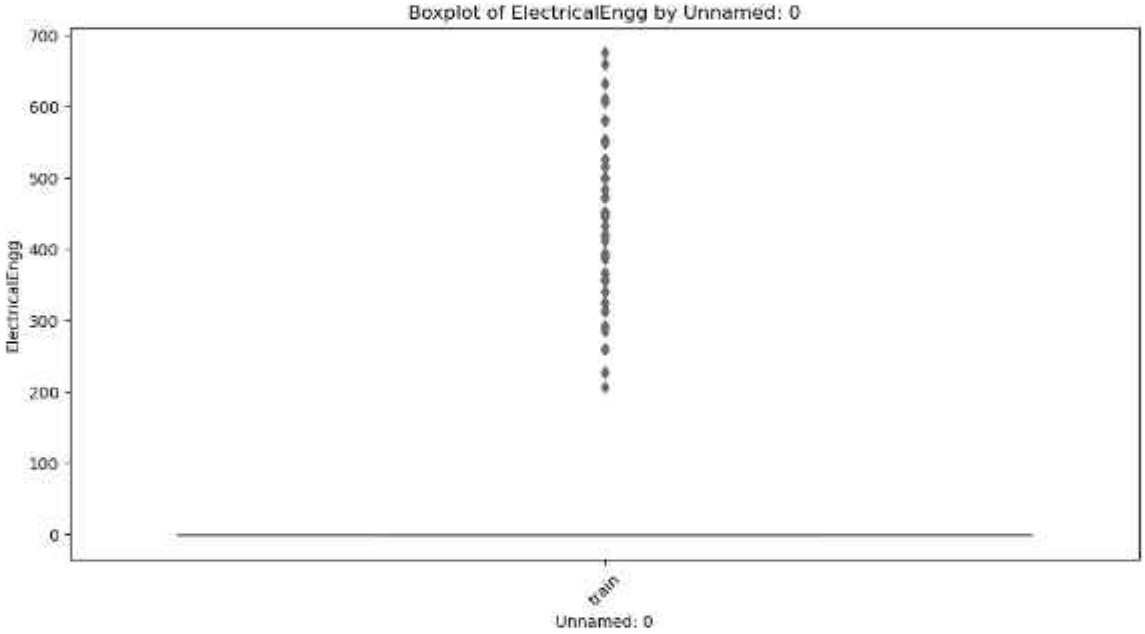

Boxplot of Domain by Unnamed: 0
Domain
1.00
0.75
0.50
0.25
0.00
−0.25
−0.50
−0.75
−1.00
train
Unnamed: 0

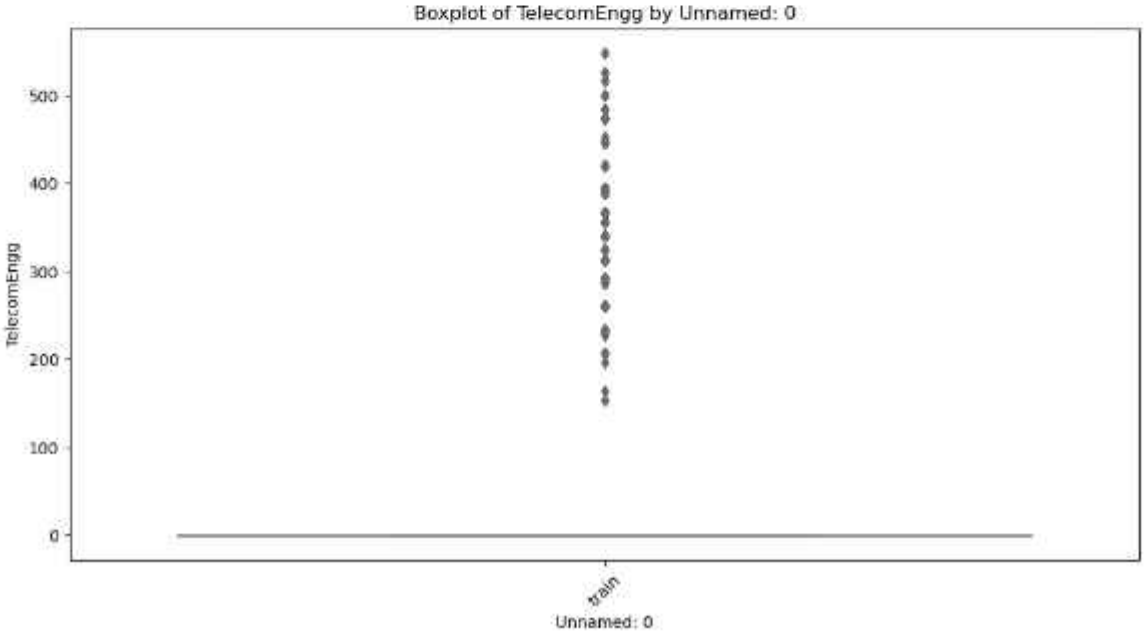

Boxplot of ComputerProgramming by Unnamed: 0
ComputerProgramming
800
600
400
200
0
train
Unnamed: 0

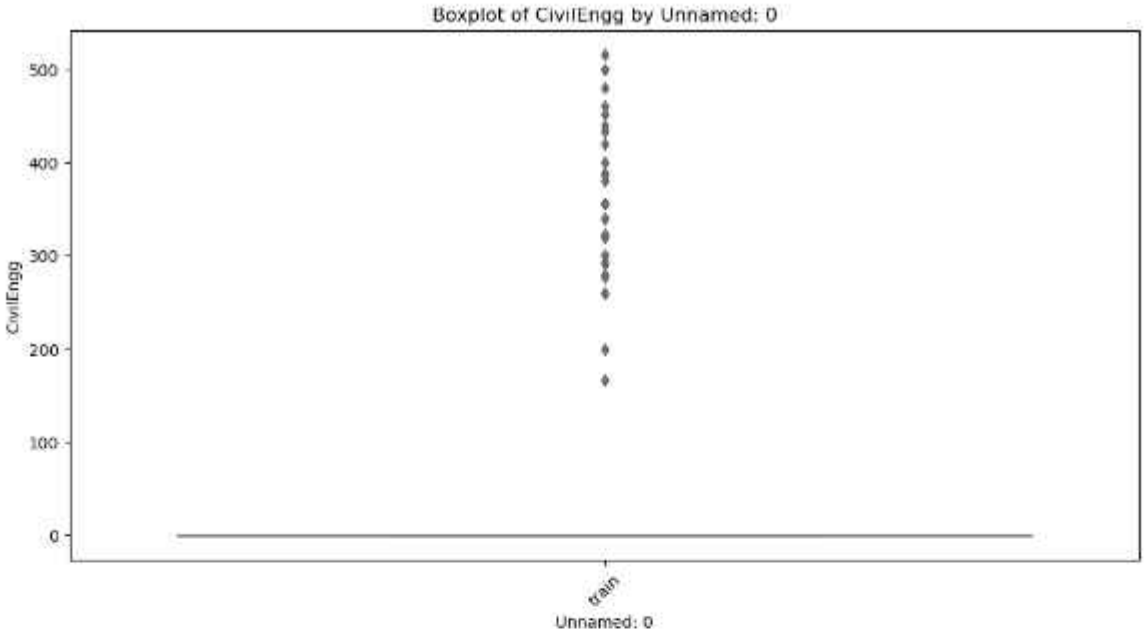

Boxplot of ElectronicsAndSemicon by Unnamed: 0
ElectronicsAndSemicon
600
500
400
300
200
100
0
train
Unnamed: 0

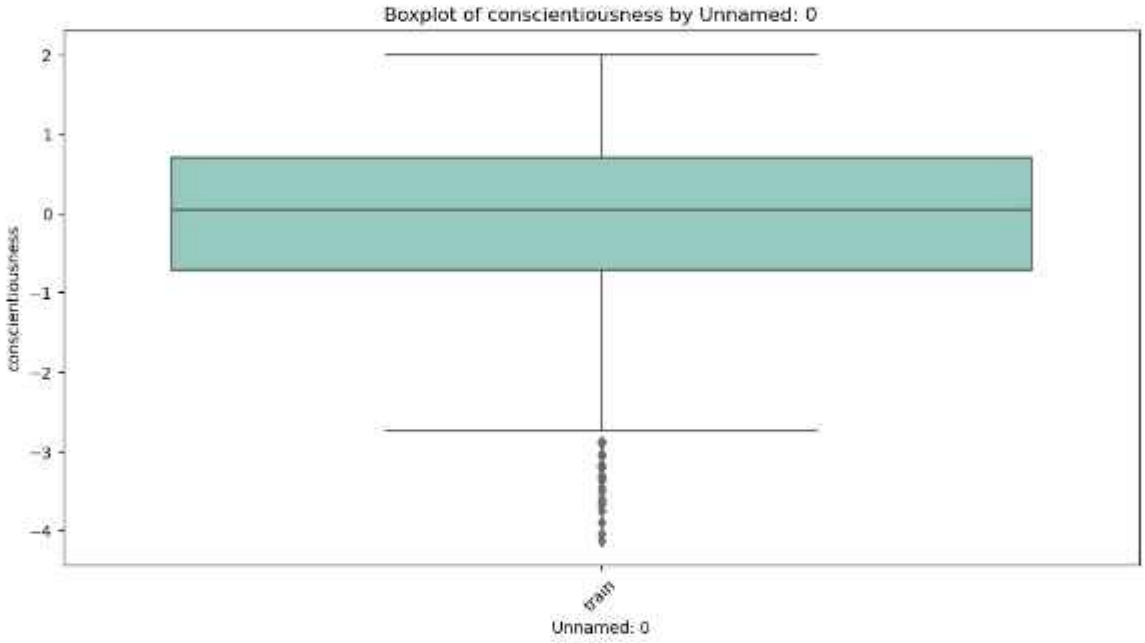

Boxplot of ComputerScience by Unnamed: 0
ComputerScience
700
600
500
400
300
200
100
0
train
Unnamed: 0

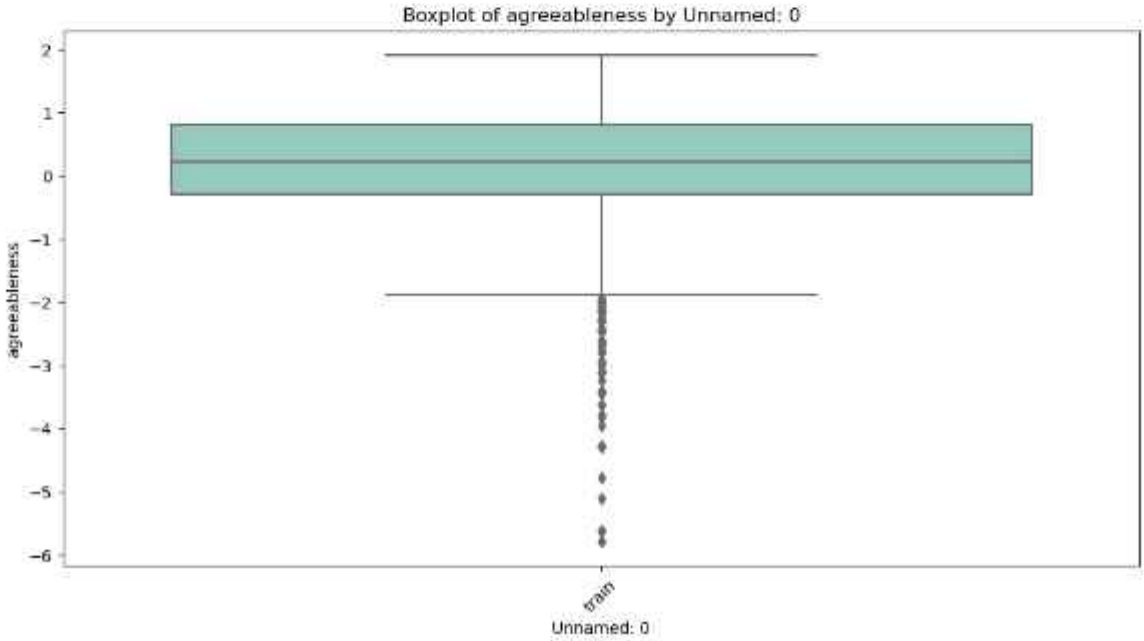

Boxplot of MechanicalEngg by Unnamed: 0
MechanicalEngg
600
500
400
300
200
100
0
train
Unnamed: 0

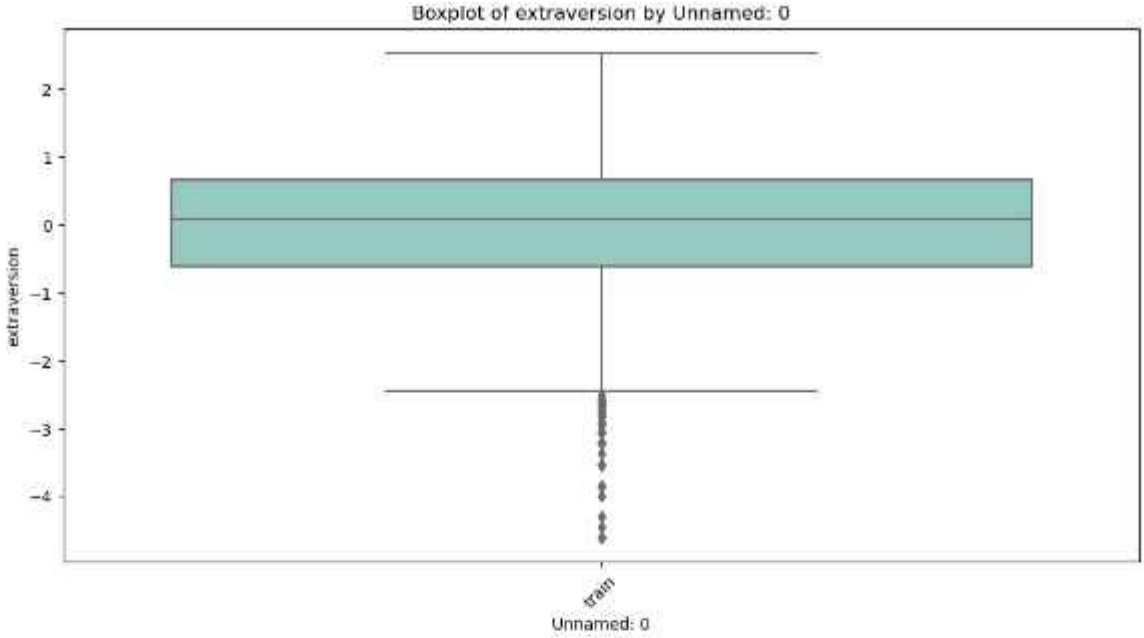

Boxplot of ElectricalEngg by Unnamed: 0
ElectricalEngg
700
600
500
400
300
200
100
0
train
Unnamed: 0

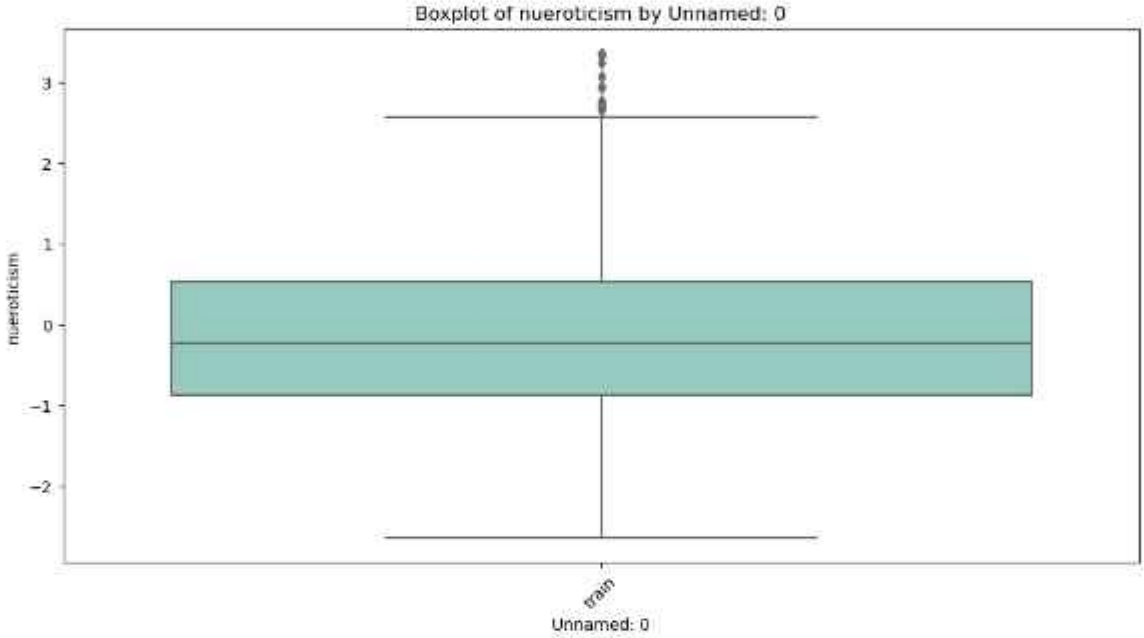

Boxplot of TelecomEngg by Unnamed: 0
TelecomEngg
500
400
300
200
100
0
train
Unnamed: 0

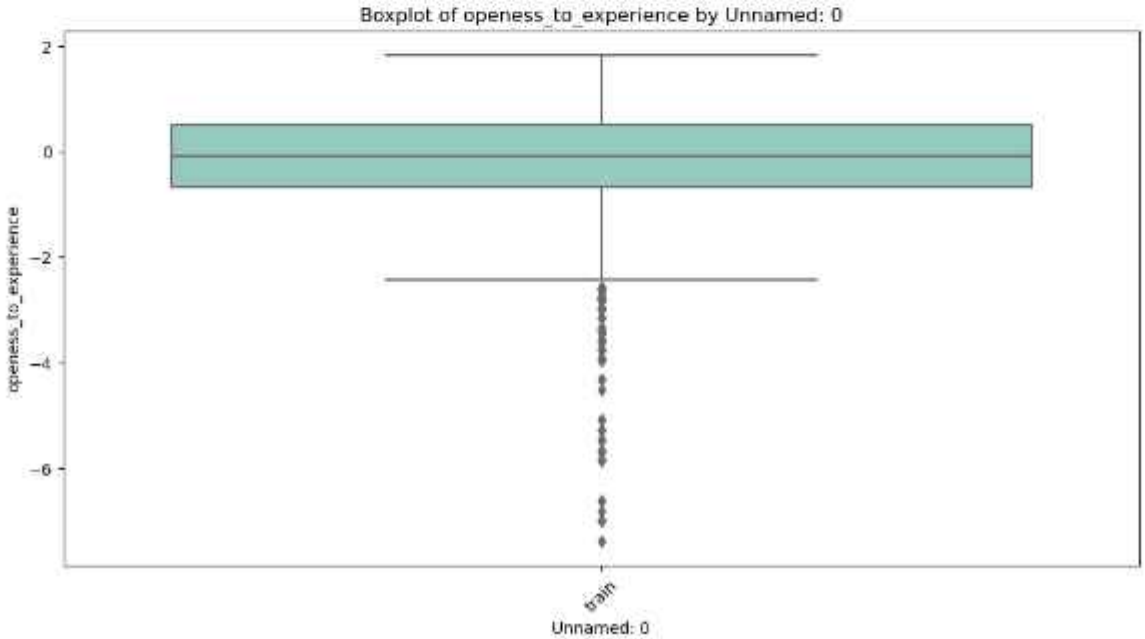

Boxplot of CivilEngg by Unnamed: 0
CivilEngg
500
400
300
200
100
0
train
Unnamed: 0

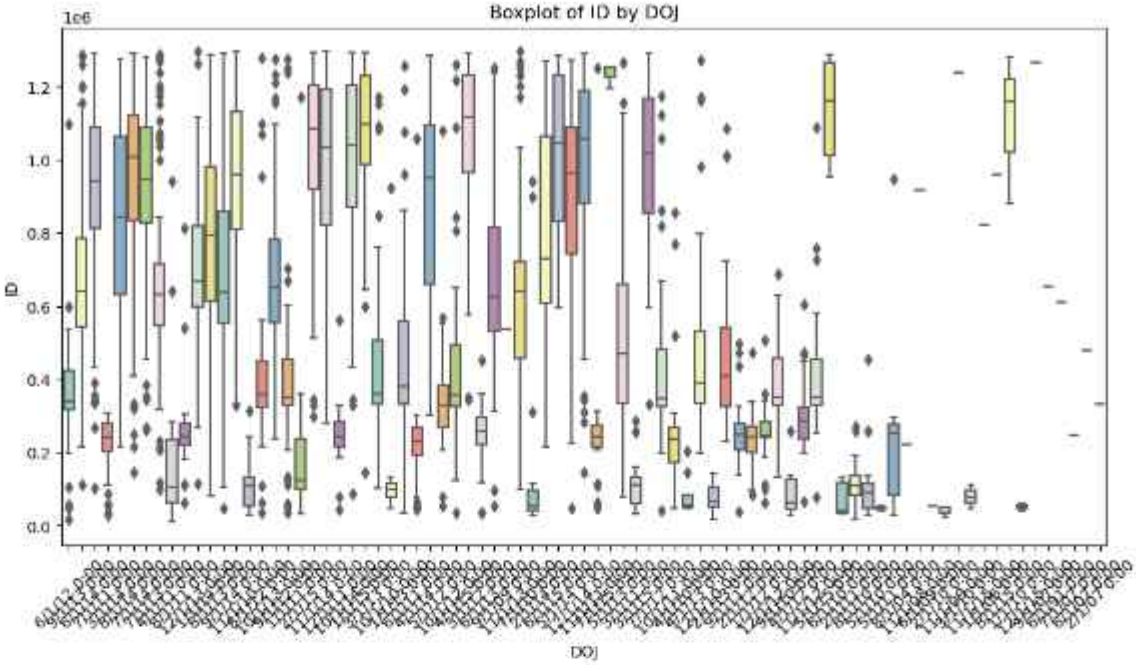

Boxplot of conscientiousness by Unnamed: 0
conscientiousness
2
1
0
−1
−2
−3
−4
train
Unnamed: 0

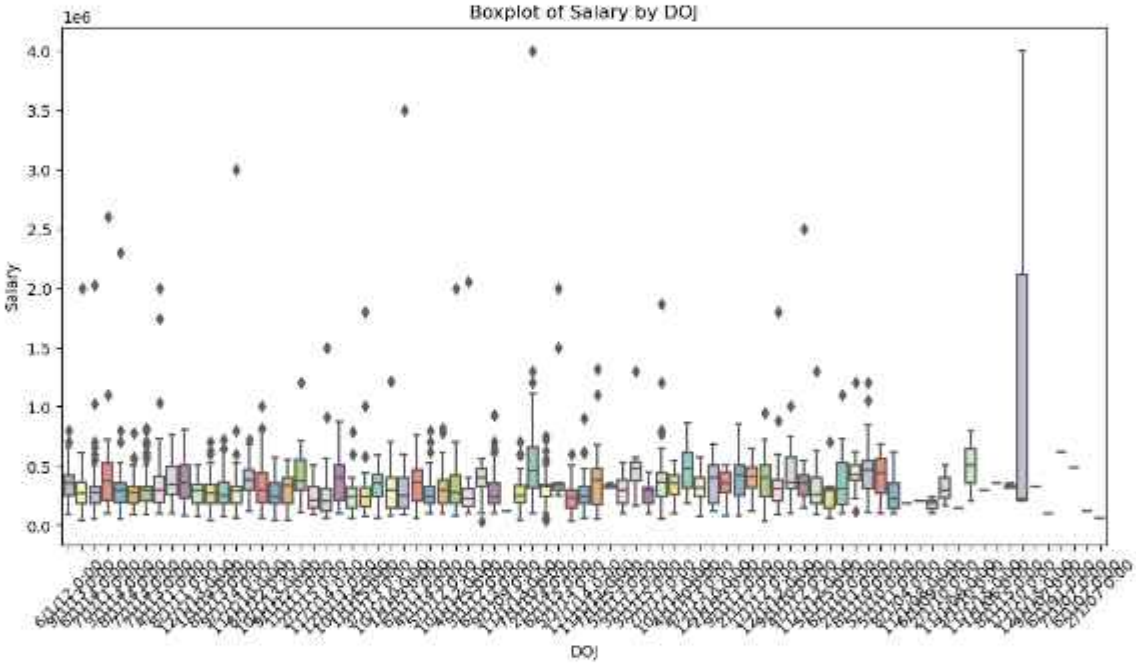

Boxplot of agreeableness by Unnamed: 0
agreeableness
2
1
0
−1
−2
−3
−4
−5
−6
train
Unnamed: 0

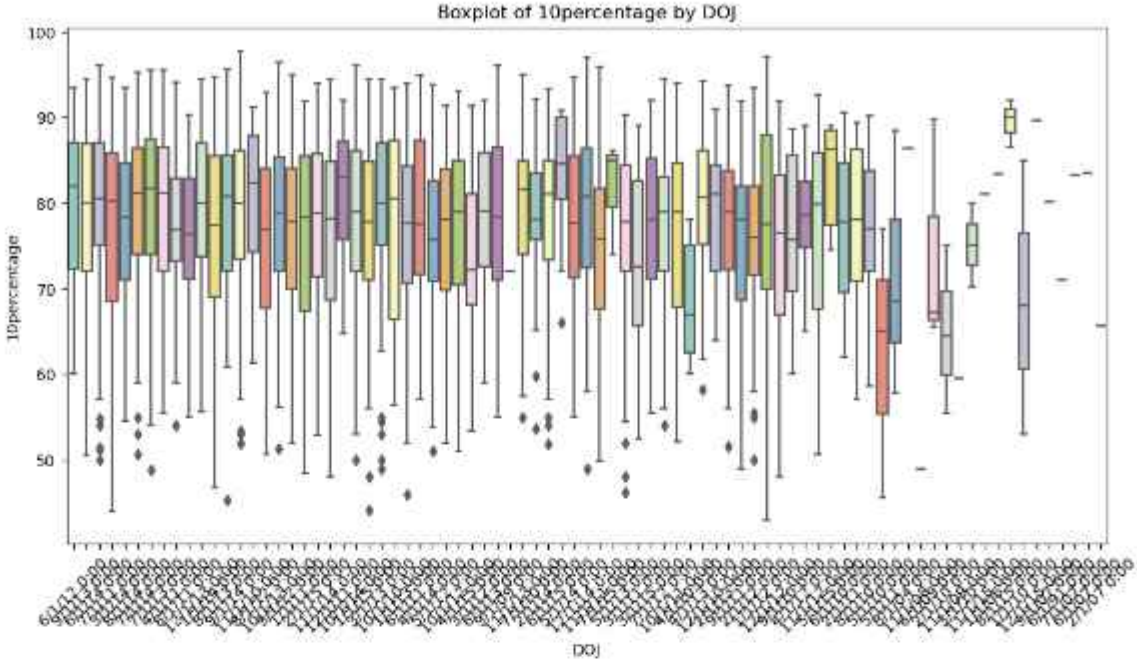

Boxplot of extraversion by Unnamed: 0
extraversion
2
1
0
−1
−2
−3
−4
train
Unnamed: 0

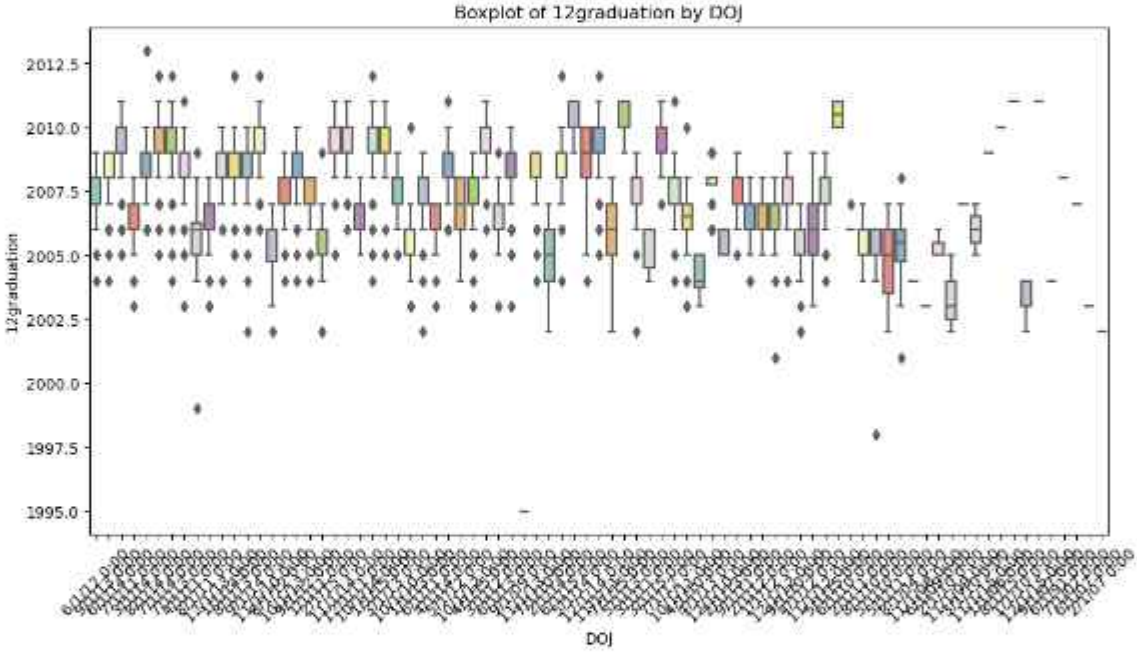

Boxplot of nueroticism by Unnamed: 0
nueroticism
3
2
1
0
−1
−2
train
Unnamed: 0

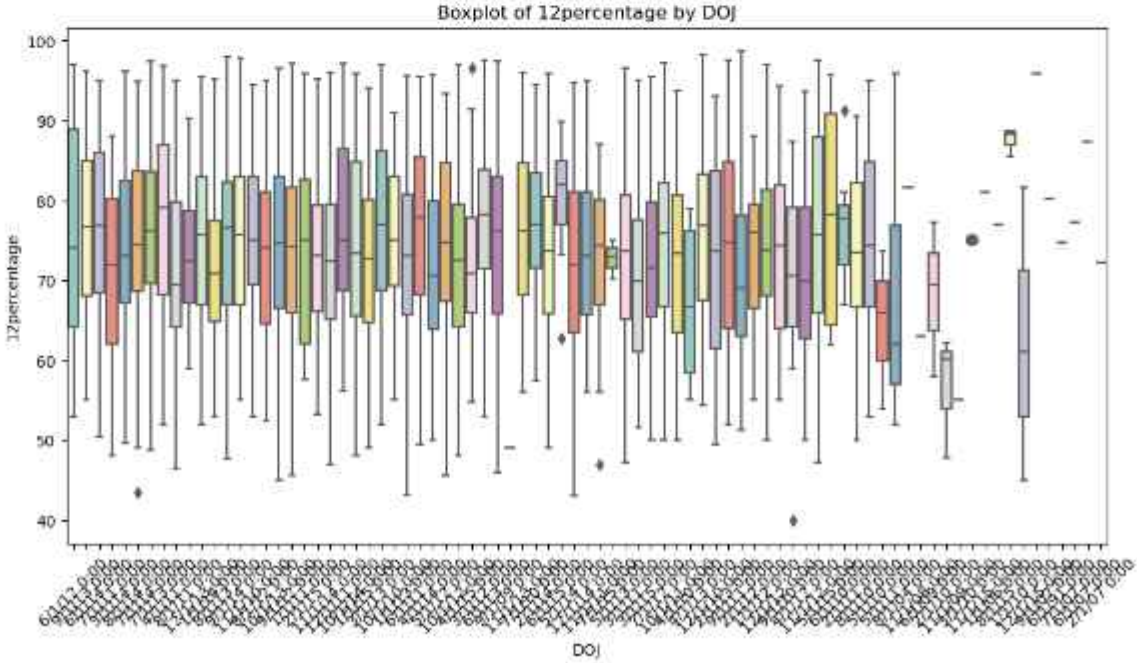

Boxplot of openess_to_experience by Unnamed: 0
openess_to_experience
2
0
−2
−4
−6
train
Unnamed: 0

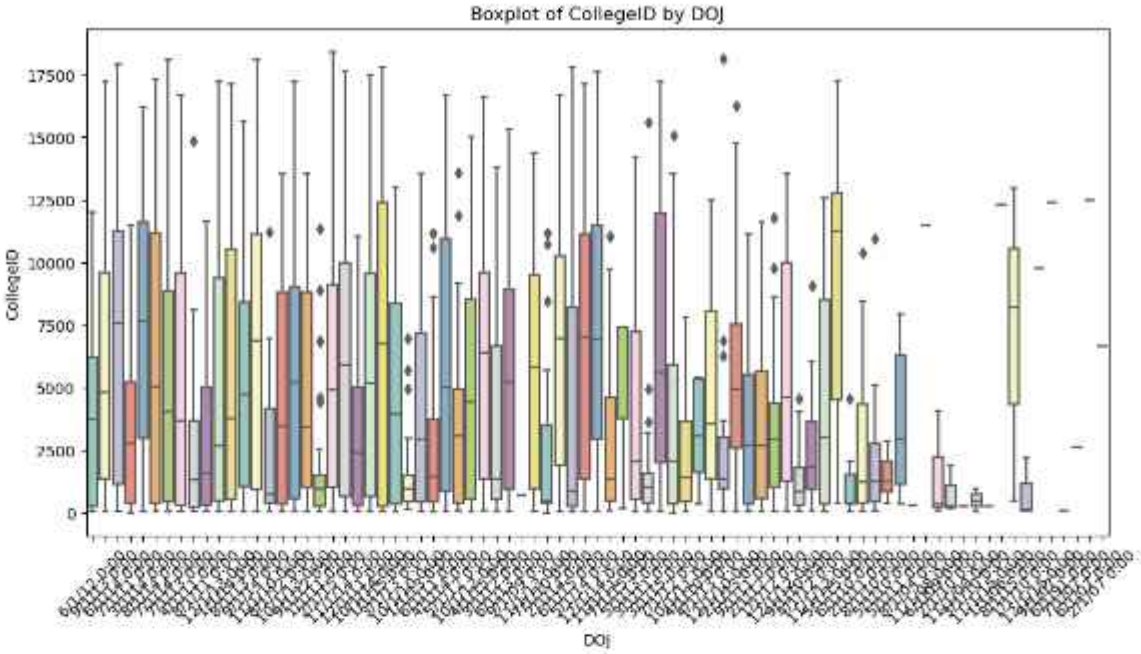

Boxplot of ID by DOJ
1e6
1.2
1.0
0.8
0.6
0.4
0.2
0.0
ID
DOJ

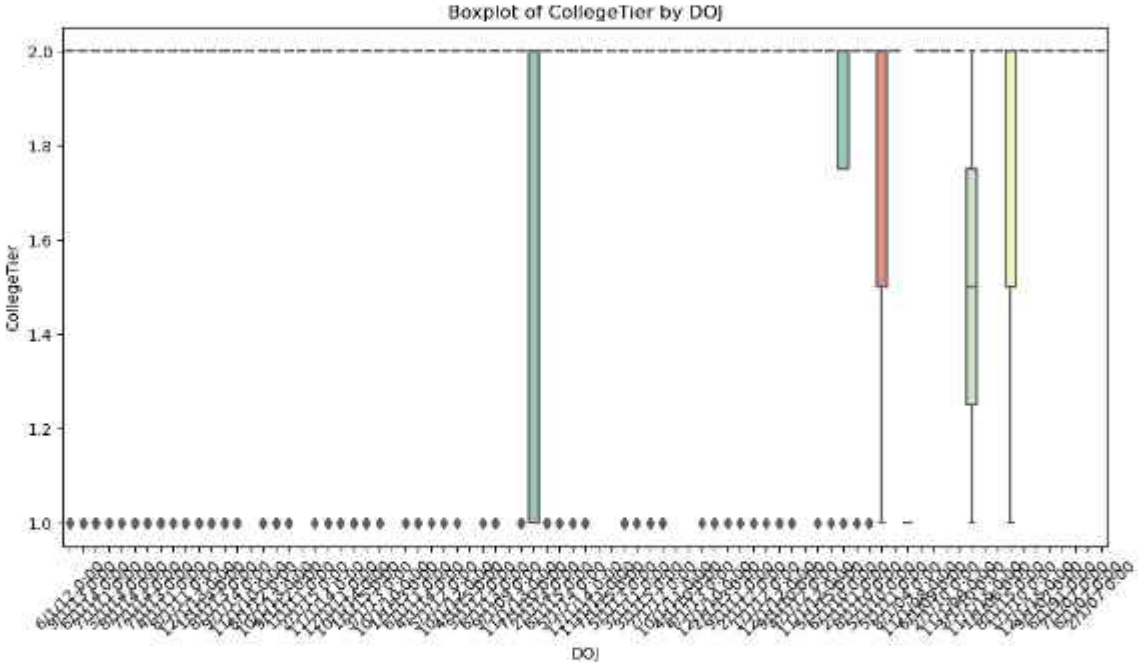

Boxplot of Salary by DOJ
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
DOJ

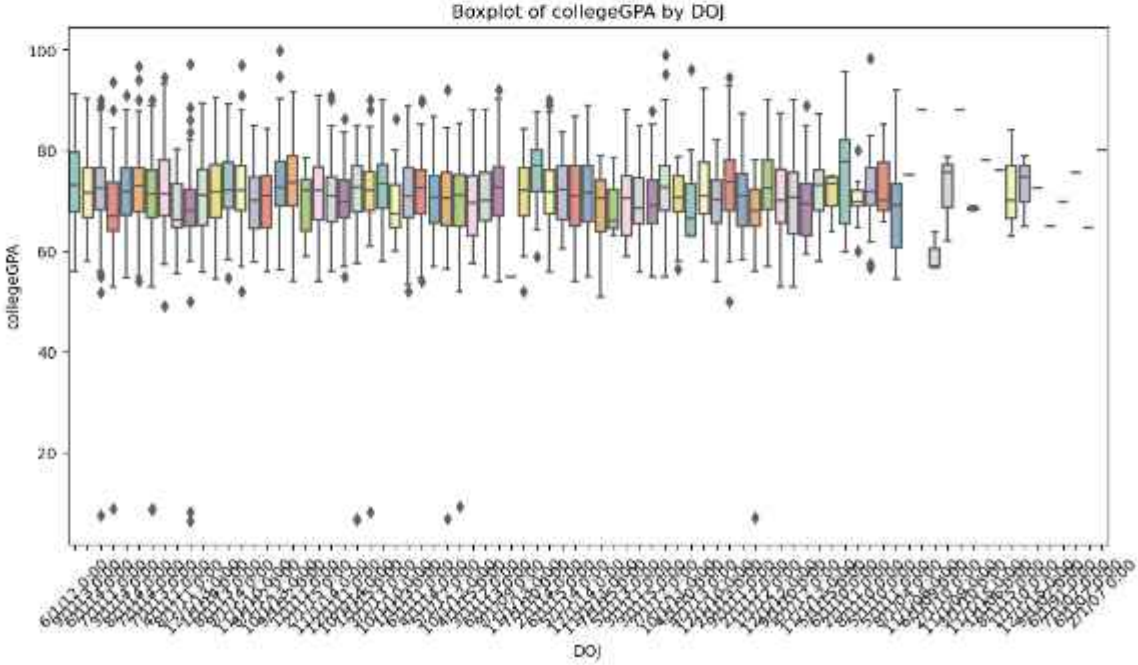

Boxplot of 10percentage by DOJ
10percentage
DOJ

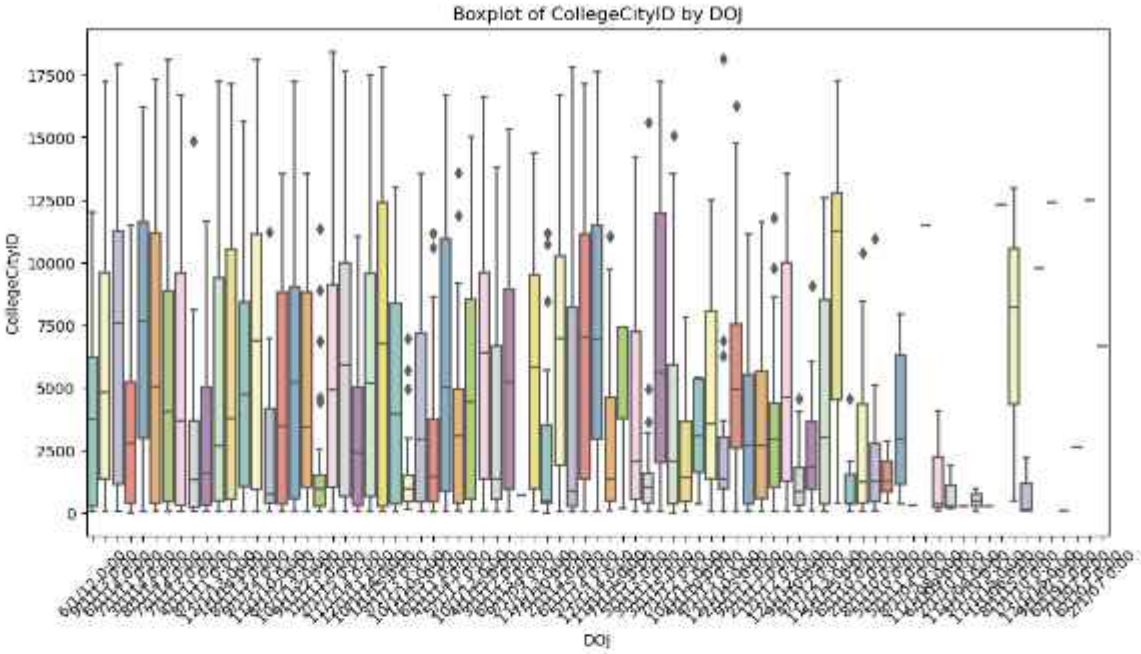

Boxplot of 12graduation by DOJ
12graduation
DOJ

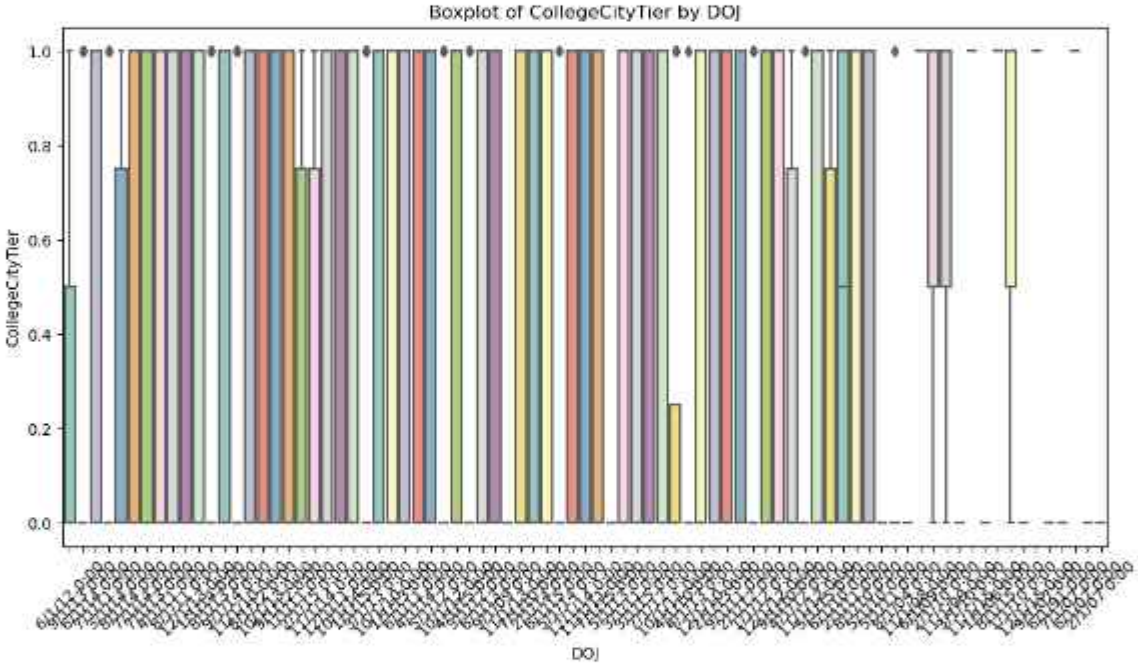

Boxplot of 12percentage by DOJ
12percentage
DOJ

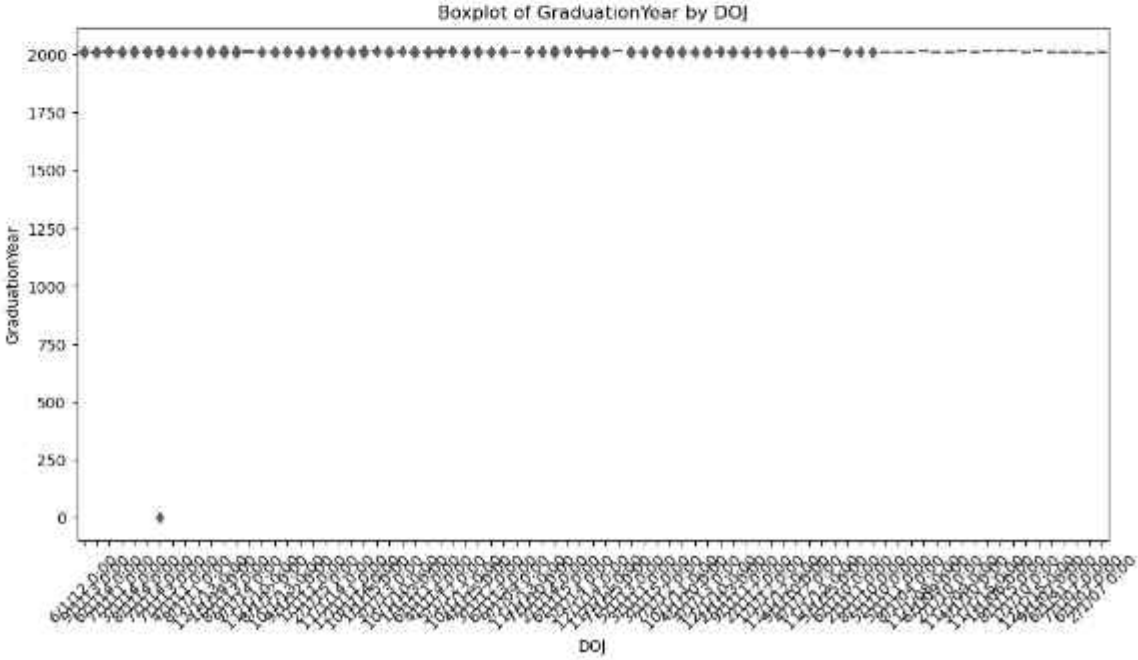

Boxplot of CollegeID by DOJ
CollegeID
DOJ

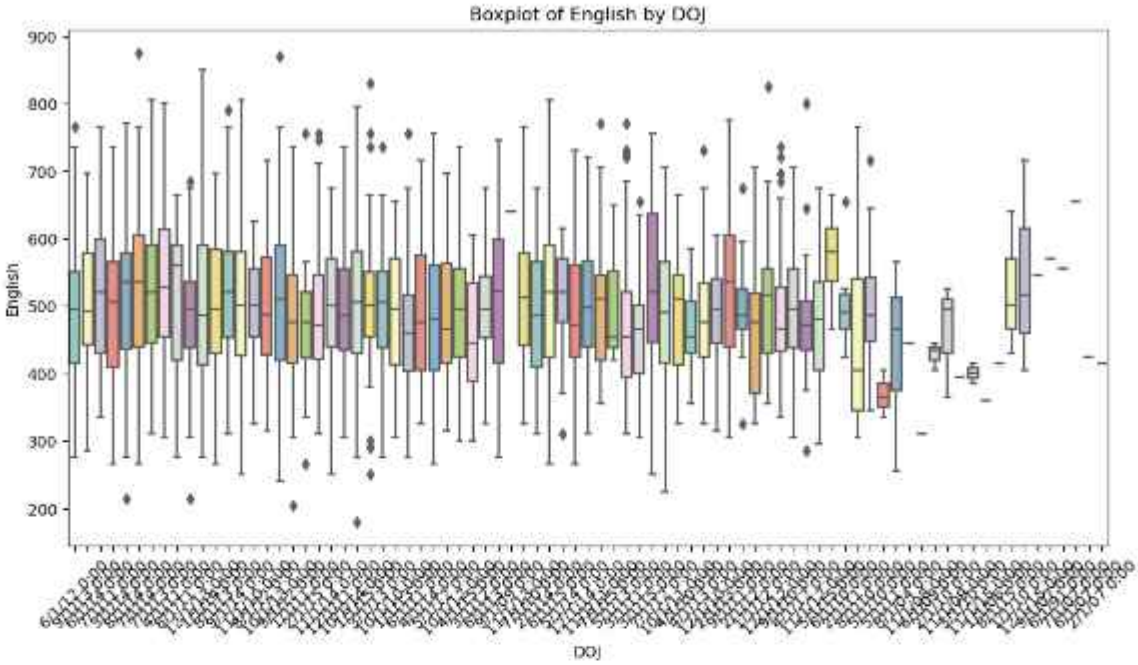

Boxplot of CollegeTier by DOJ
CollegeTier
DOJ

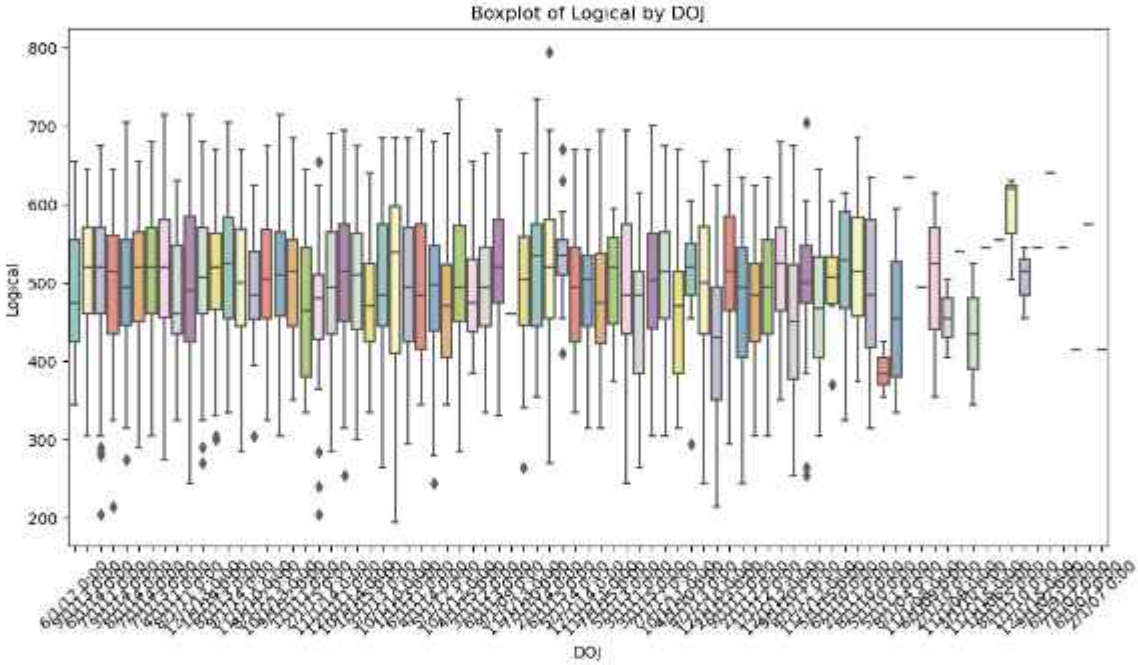

Boxplot of collegeGPA by DOJ
collegeGPA
DOJ

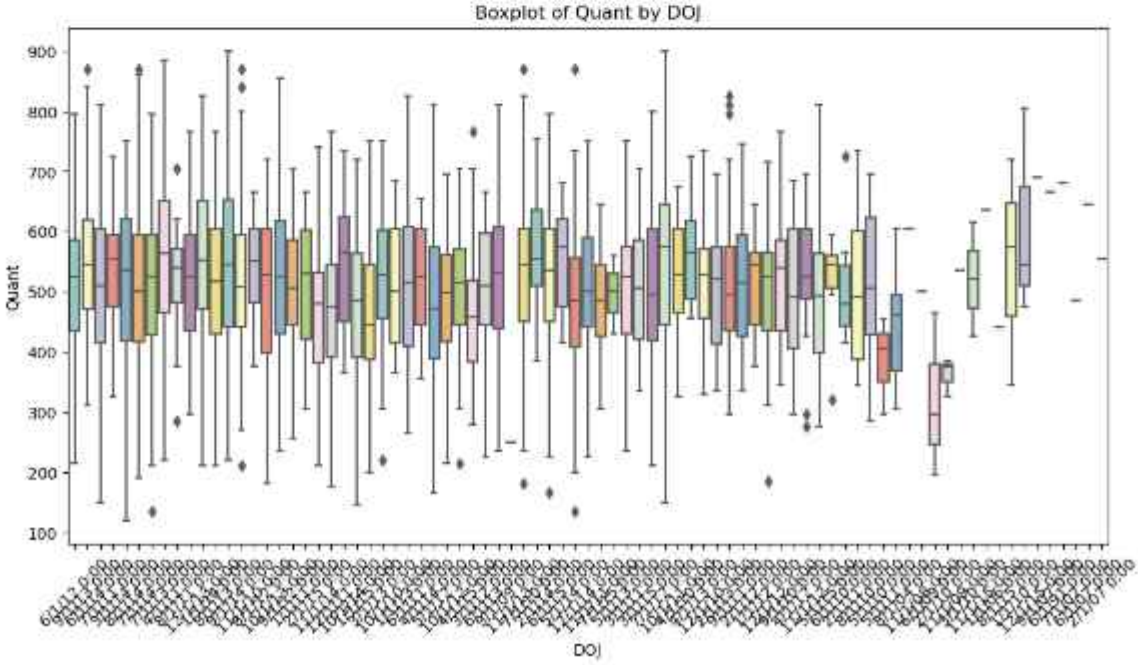

Boxplot of CollegeCityID by DOJ
CollegeCityID
DOJ

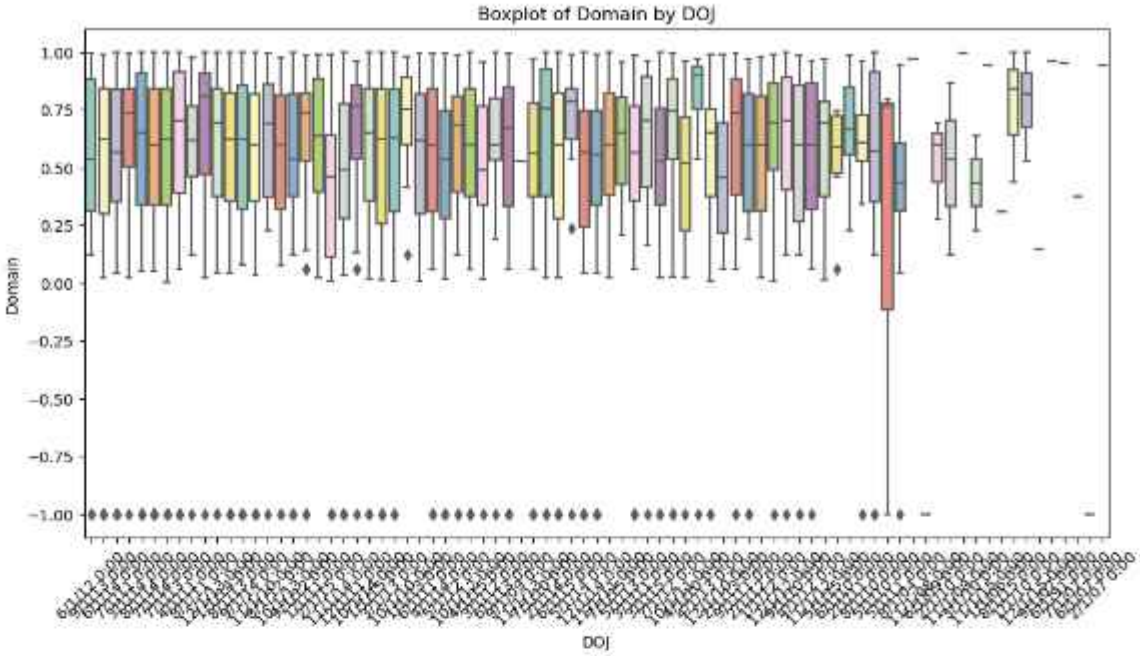

Boxplot of CollegeCityTier by DOJ
CollegeCityTier
DOJ

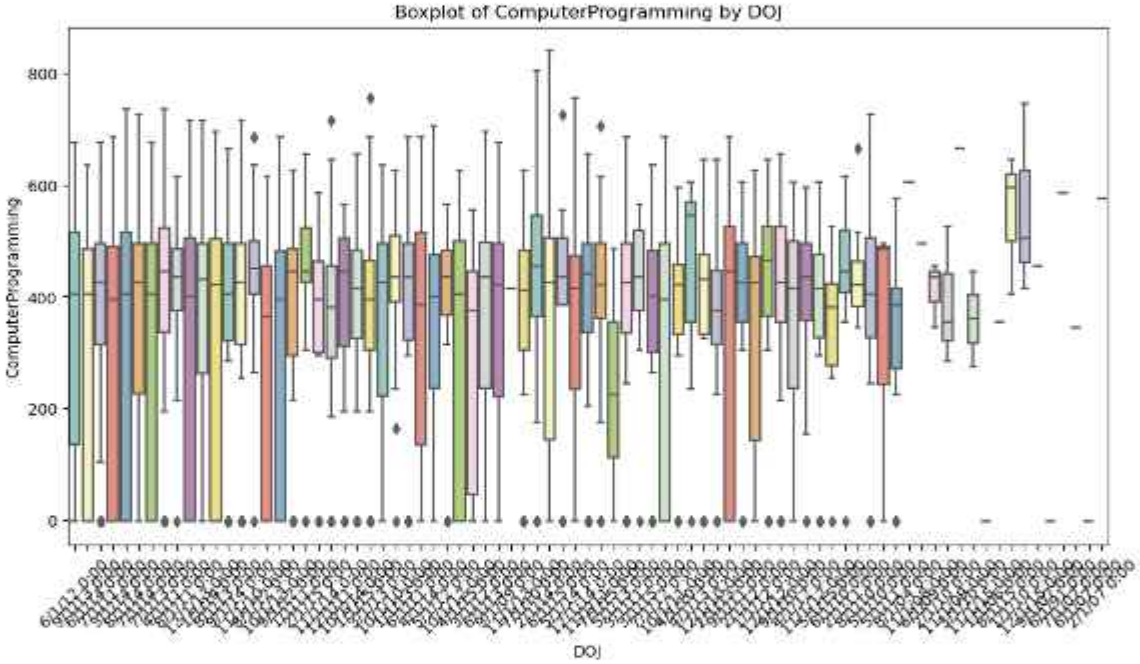

Boxplot of GraduationYear by DOJ
GraduationYear
DOJ

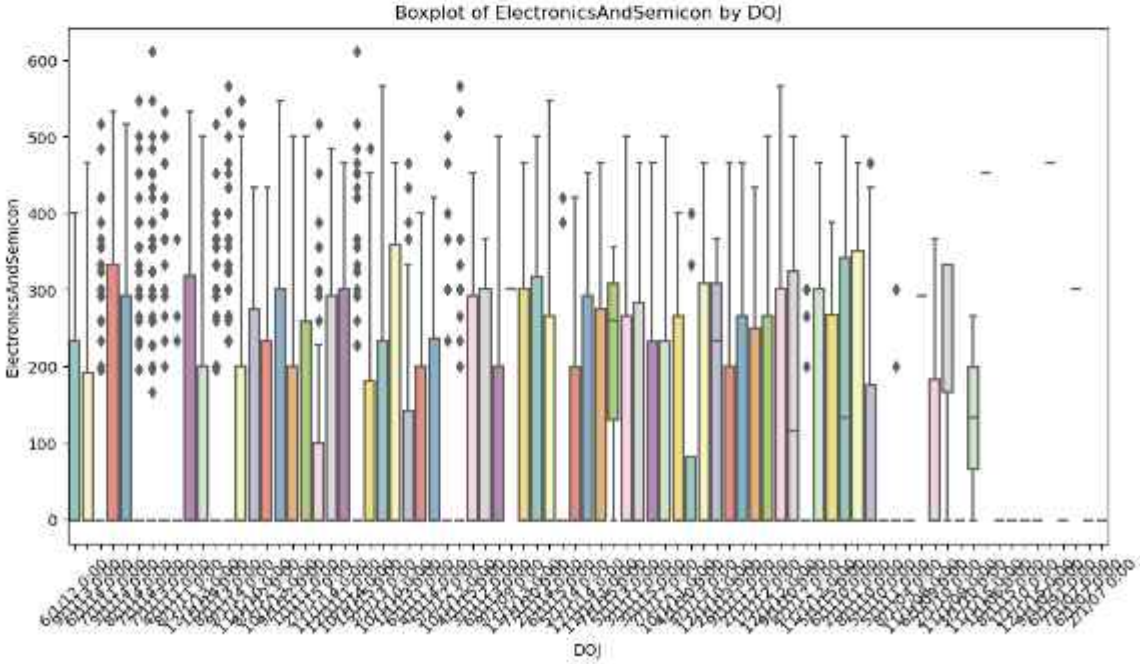

Boxplot of English by DOJ
English
DOJ

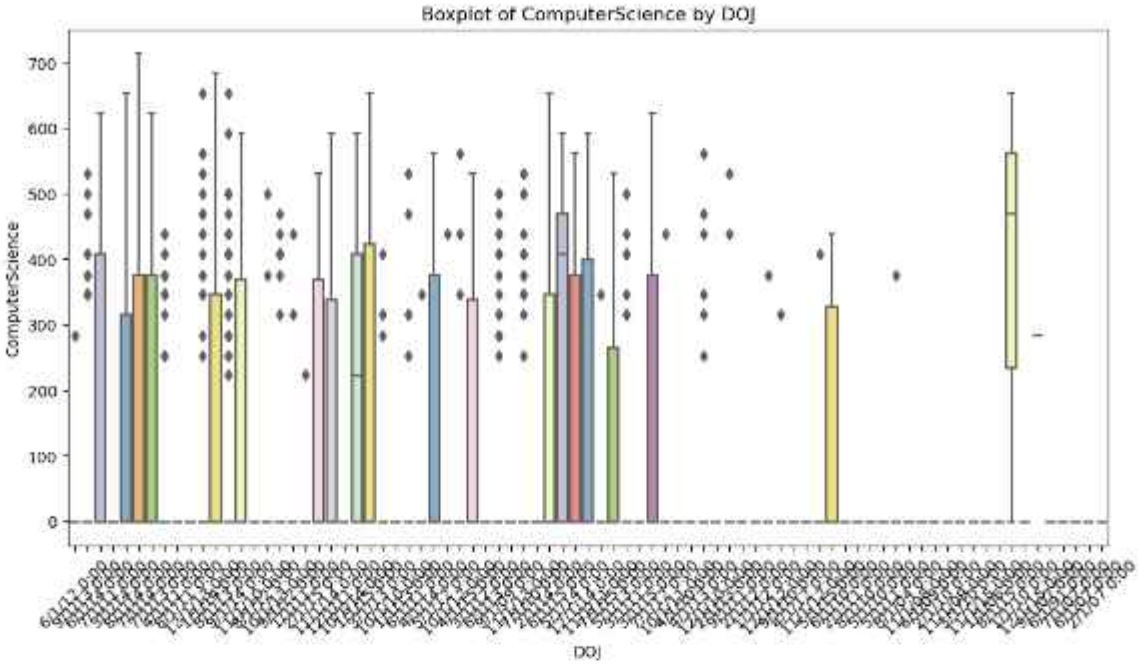

Boxplot of Logical by DOJ
Logical
DOJ

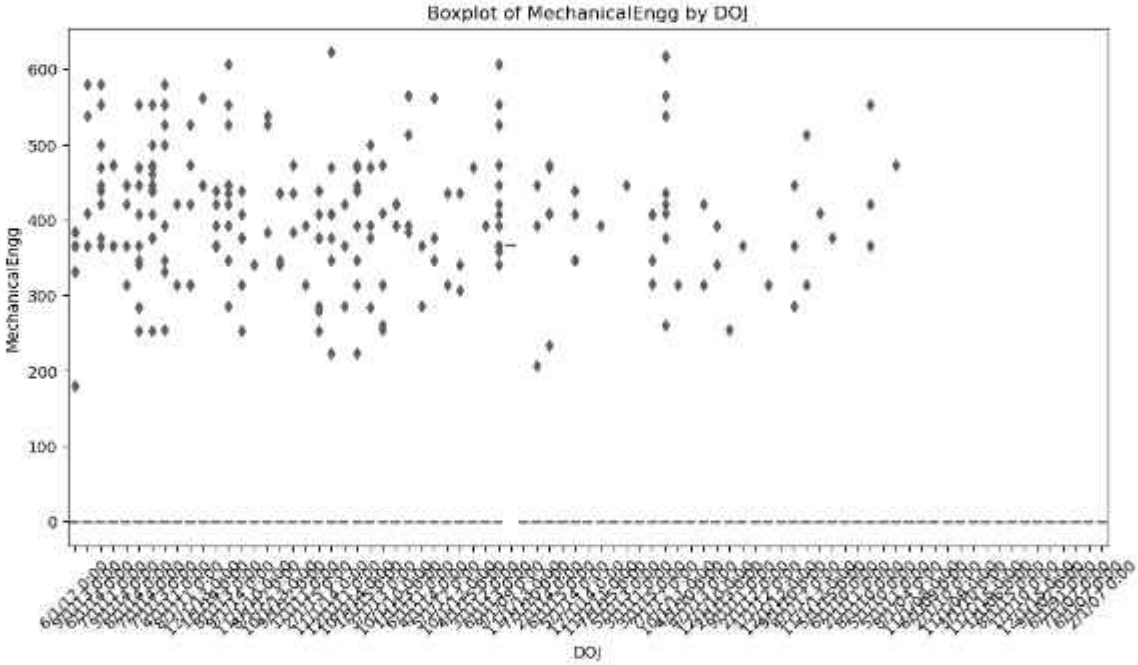

Boxplot of Quant by DOJ
Quant
DOJ

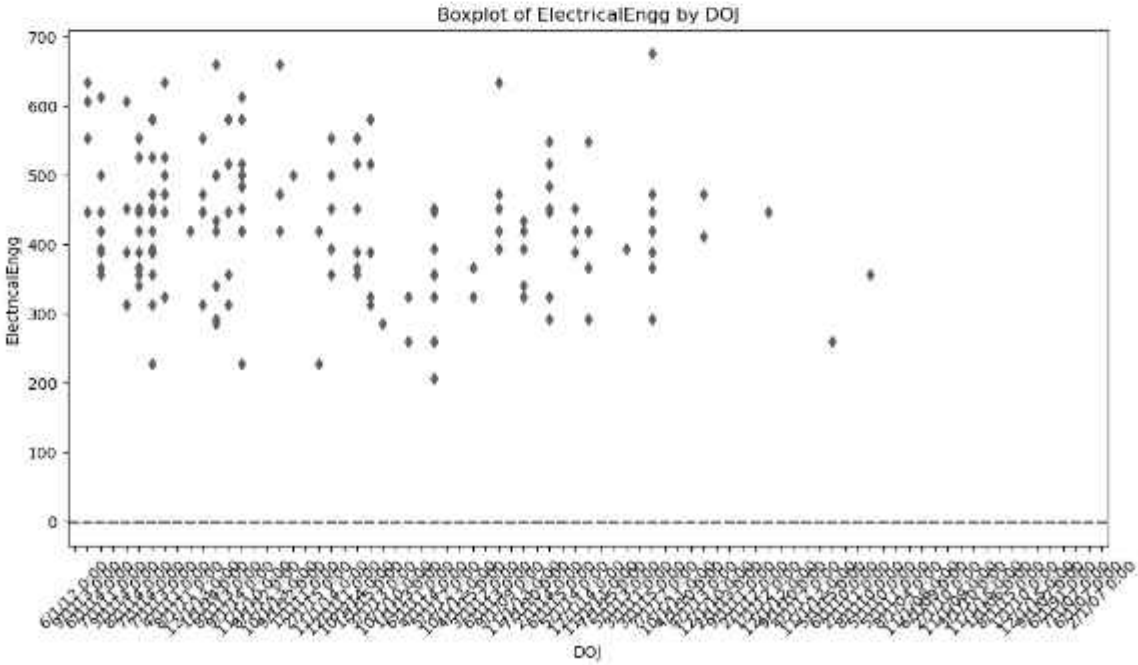

Boxplot of Domain by DOJ
Domain
DOJ

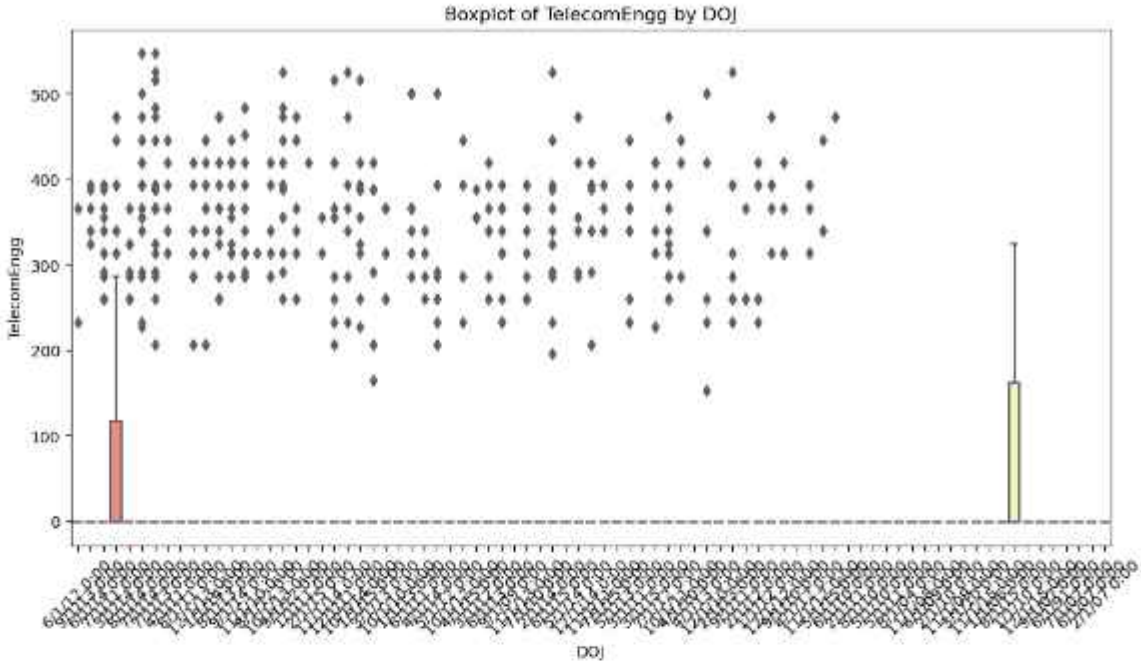

Boxplot of ComputerProgramming by DOJ
ComputerProgramming
DOJ

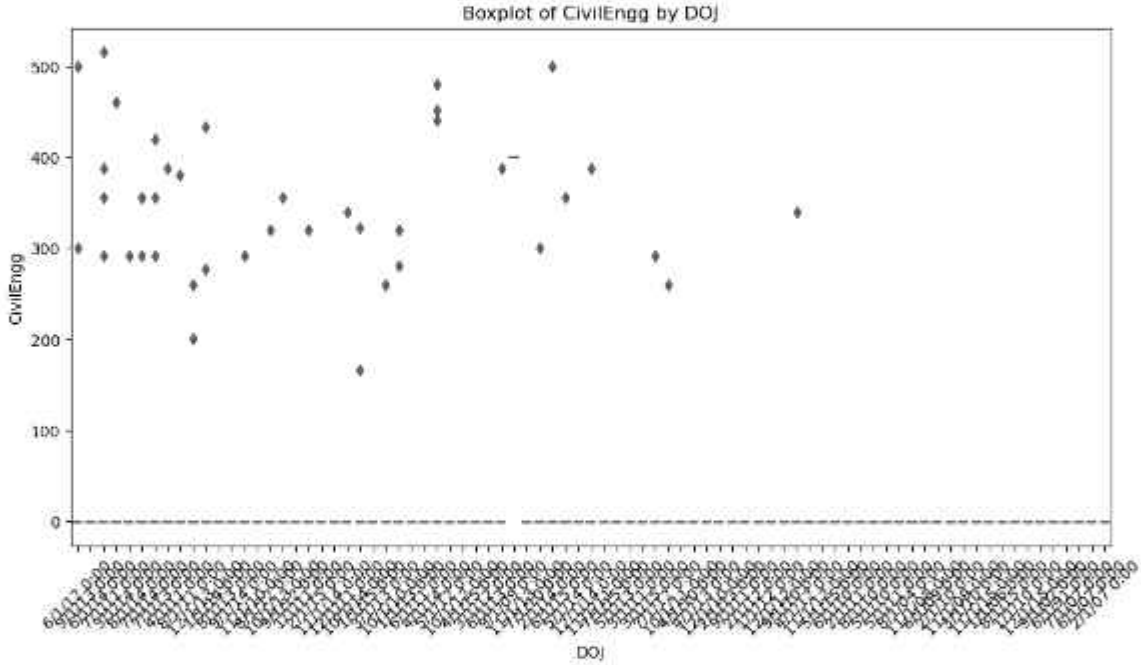

Boxplot of ElectronicsAndSemicon by DOJ
ElectronicsAndSemicon
DOJ

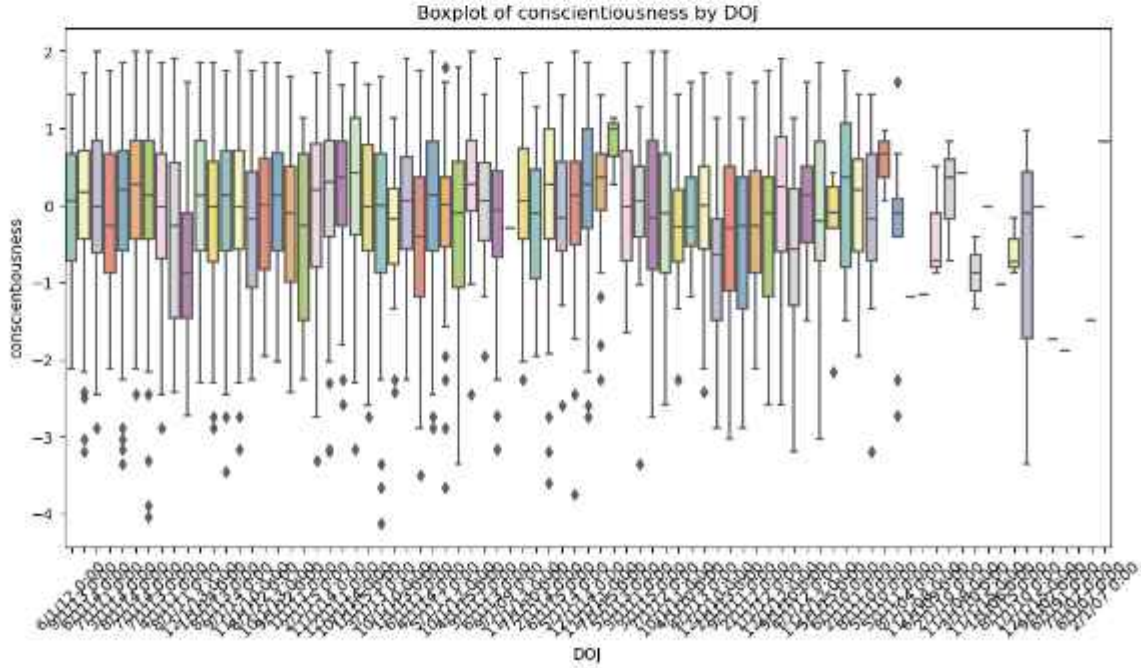

Boxplot of ComputerScience by DOJ
ComputerScience
DOJ

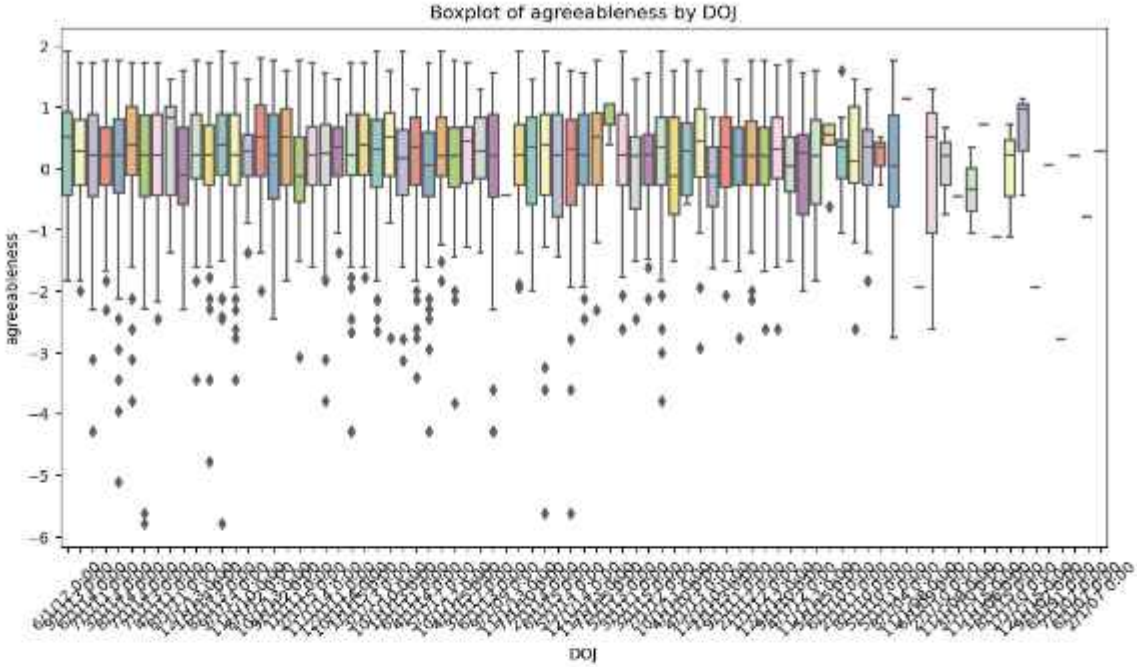

Boxplot of MechanicalEngg by DOJ
MechanicalEngg
DOJ

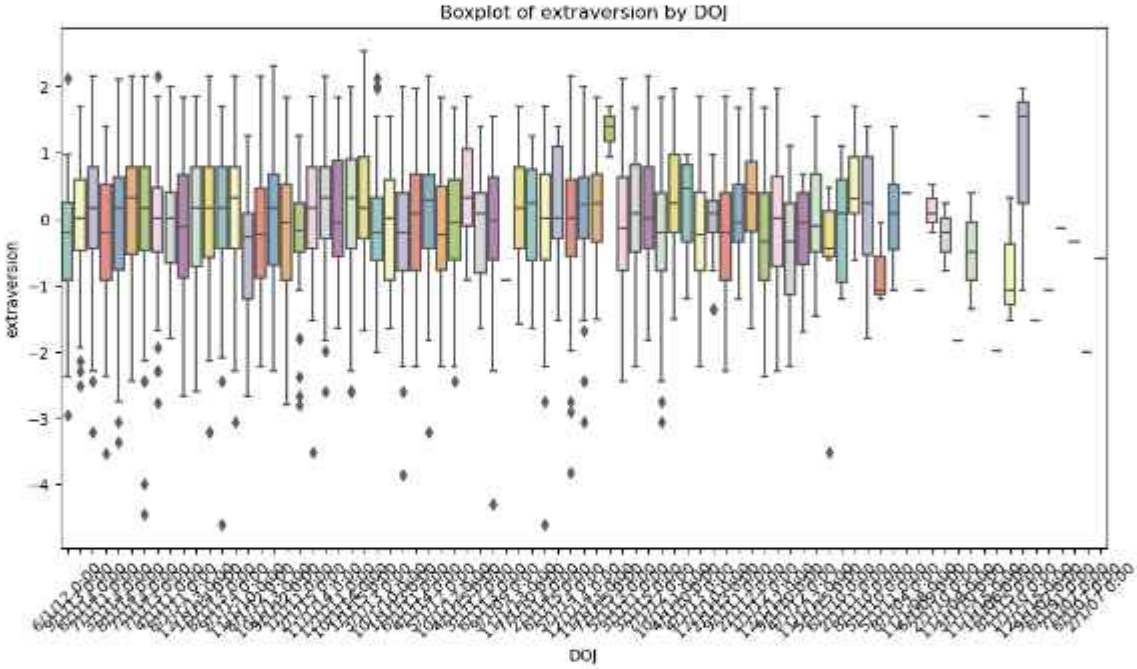

Boxplot of ElectricalEngg by DOJ
ElectricalEngg
DOJ

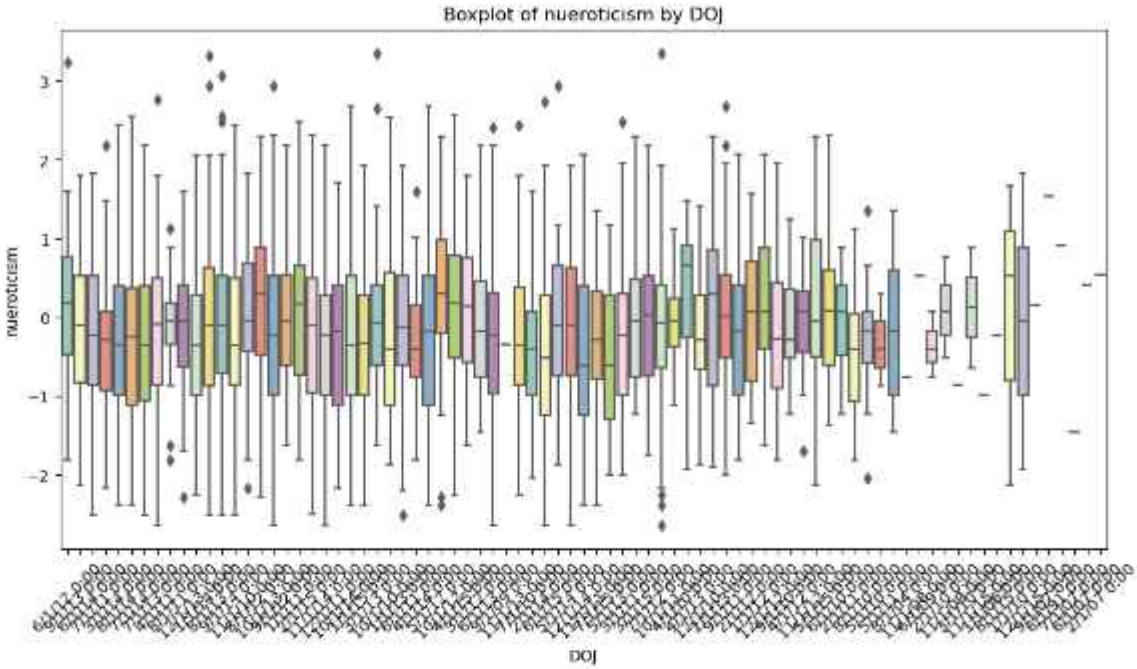

Boxplot of TelecomEngg by DOJ
TelecomEngg
DOJ

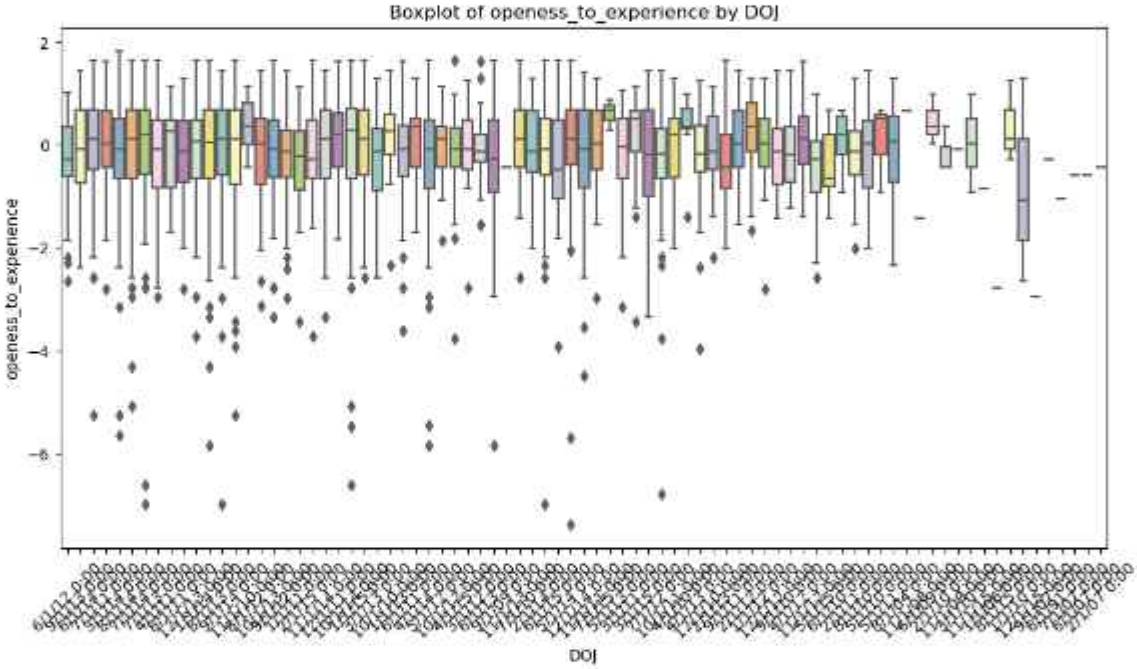

Boxplot of CivilEngg by DOJ
CivilEngg
DOJ

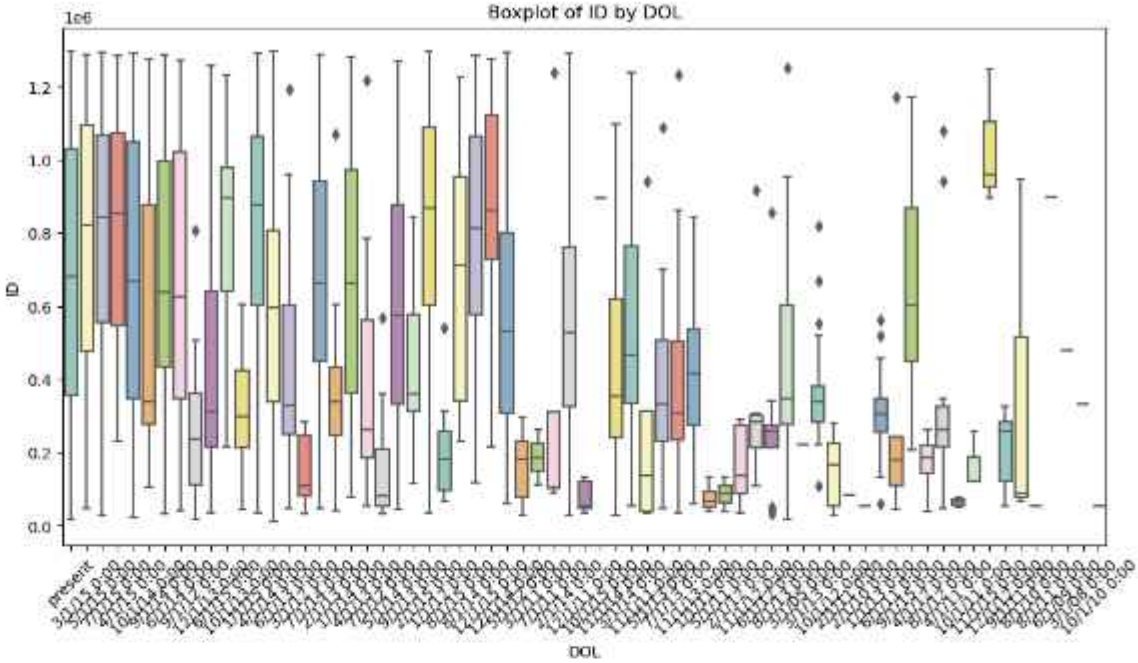

Boxplot of conscientiousness by DOJ
conscientiousness
DOJ

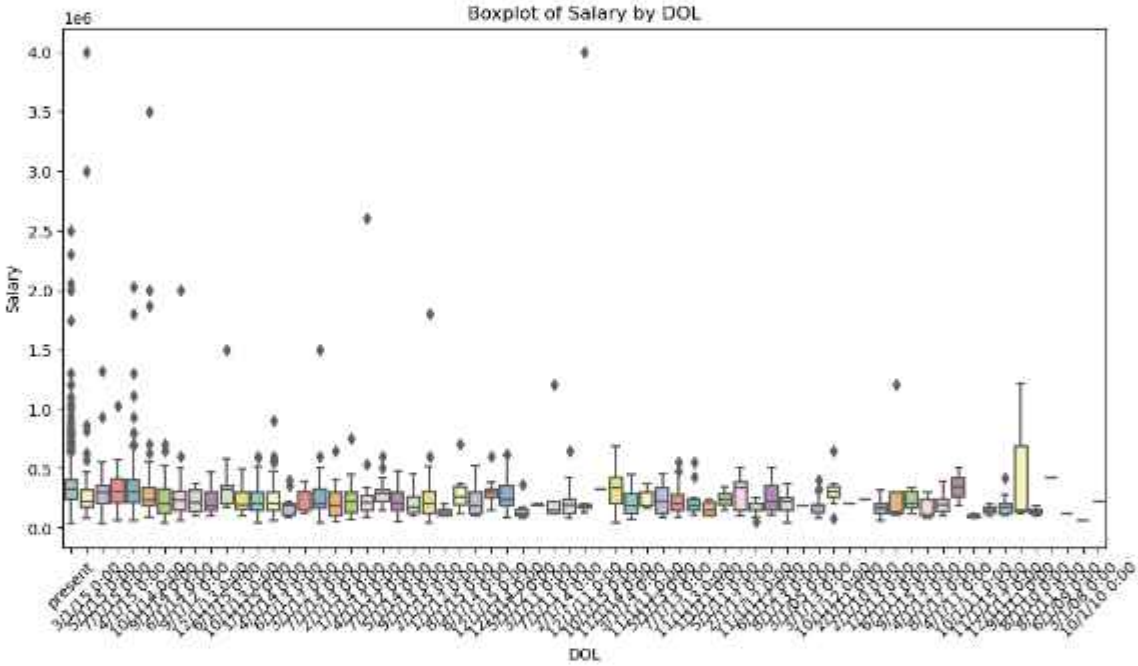

Boxplot of agreeableness by DOJ
agreeableness
DOJ

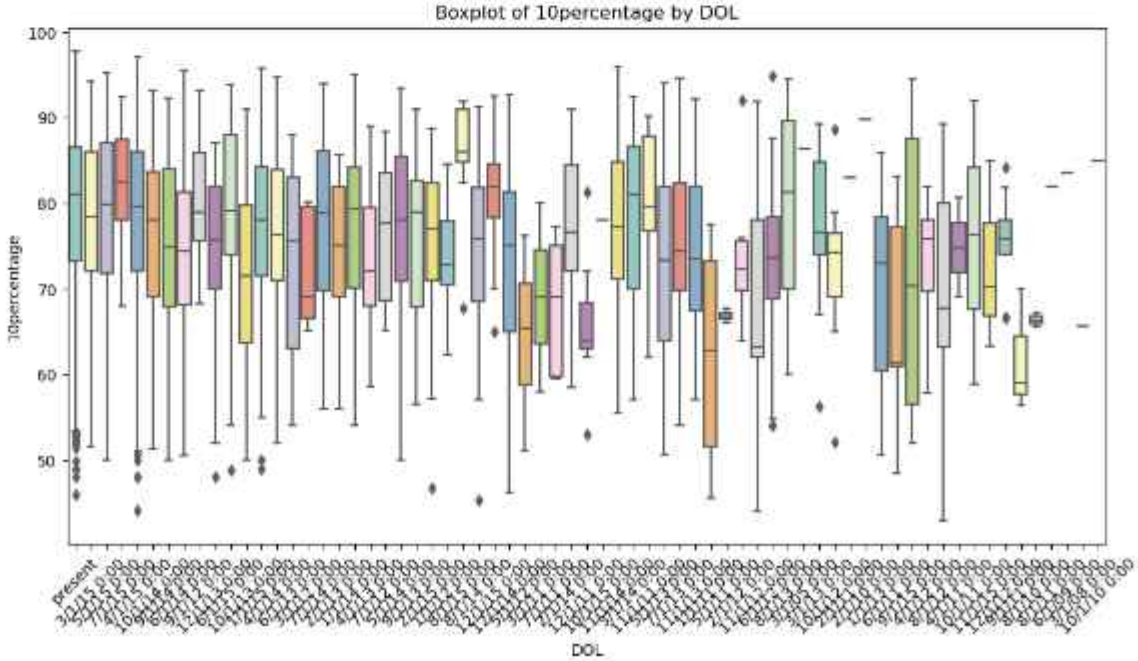

Boxplot of extraversion by DOJ
extraversion
DOJ

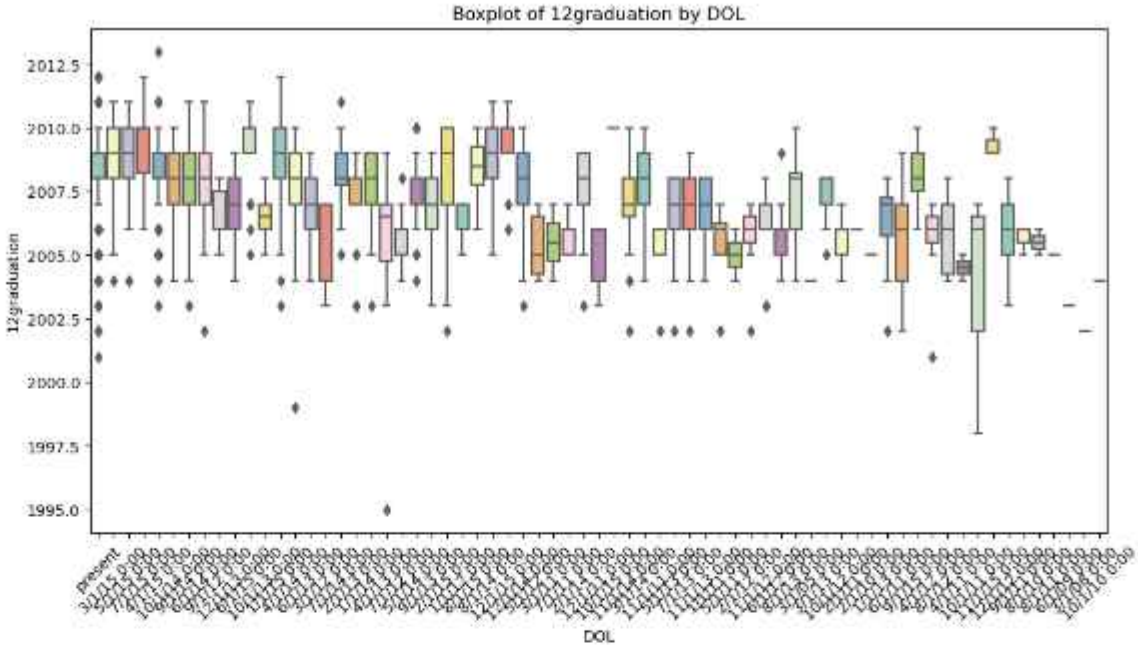

Boxplot of nueroticism by DOJ
nueroticism
DOJ

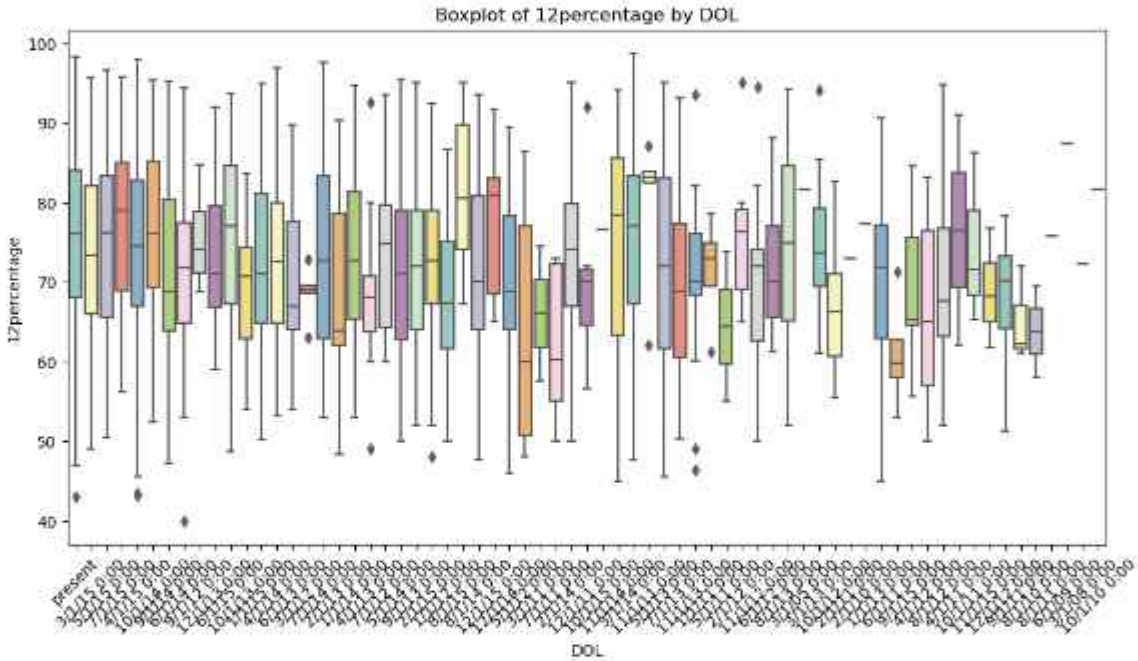

Boxplot of openess_to_experience by DOJ
openess_to_experience
DOJ

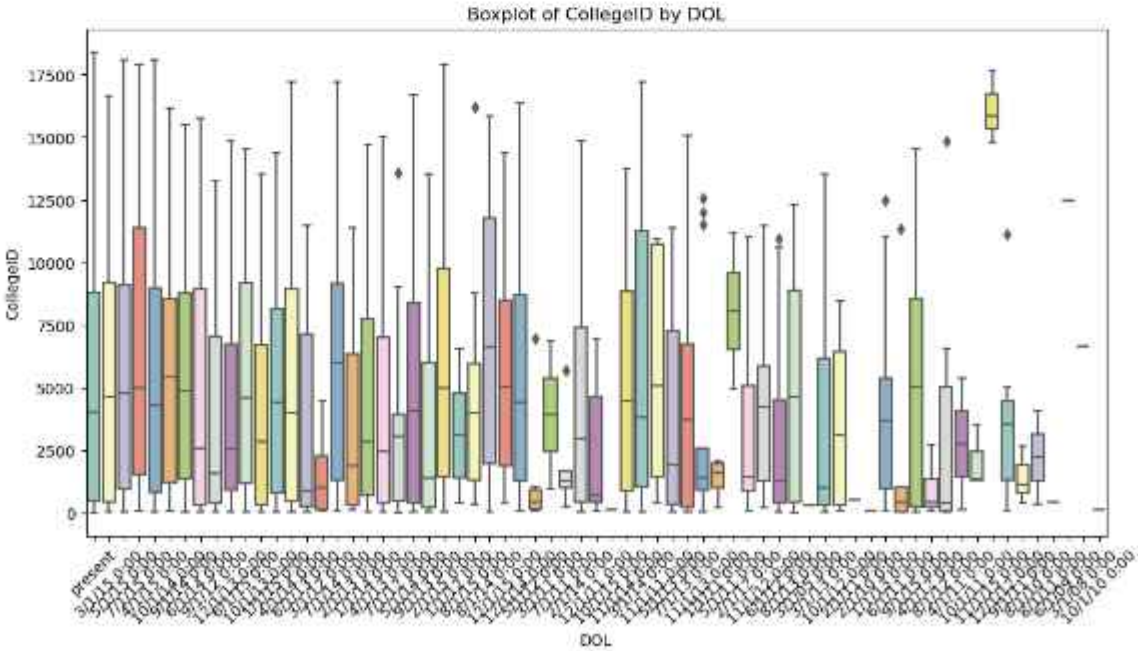

Boxplot of ID by DOL
1e6
ID
DOL

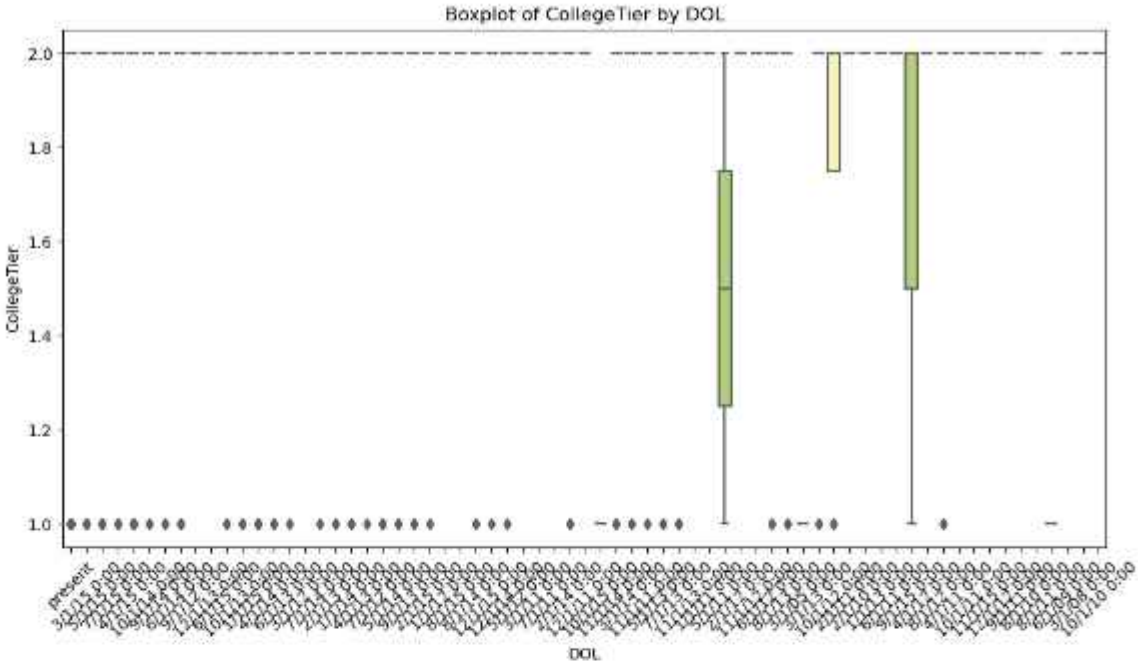

Boxplot of Salary by DOL
1e6
Salary
DOL

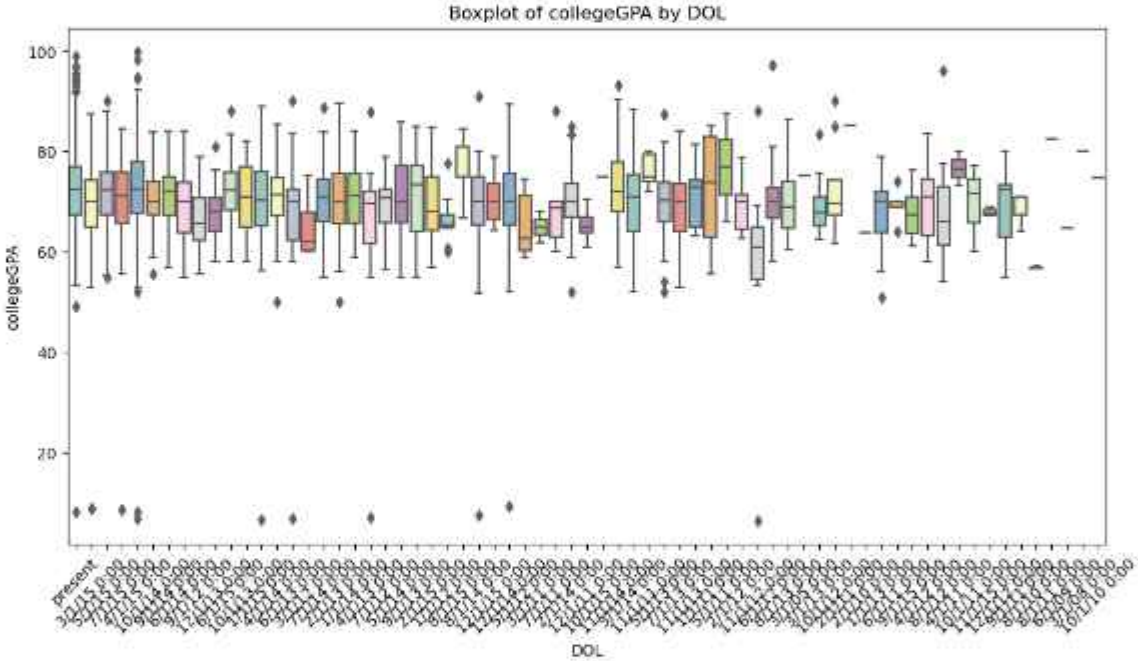

Boxplot of 10percentage by DOL
10percentage
DOL

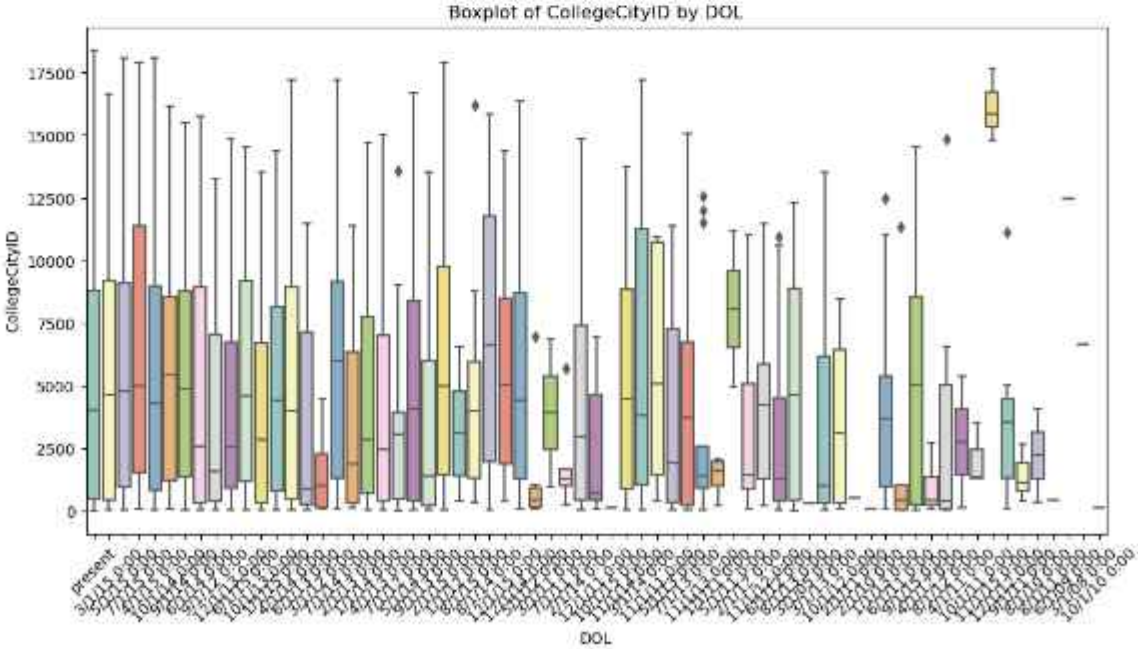

Boxplot of 12graduation by DOL
12graduation
2012.5
2010.0
2007.5
2005.0
2002.5
2000.0
1997.5
1995.0
DOL

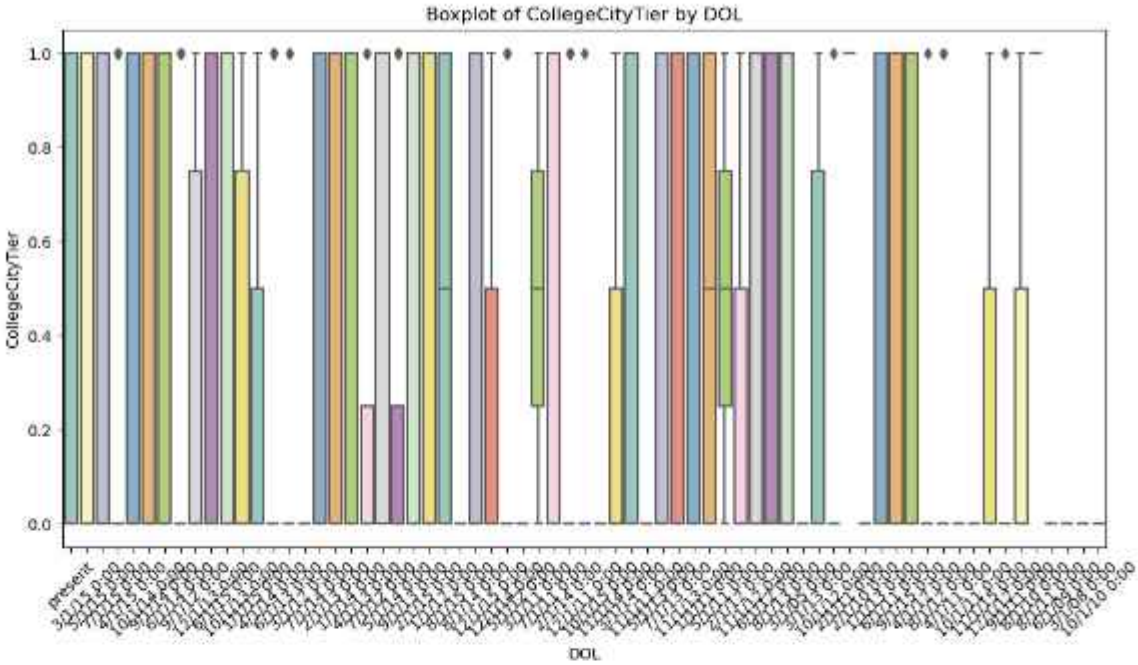

Boxplot of 12percentage by DOL
12percentage
100
90
80
70
60
50
40
DOL

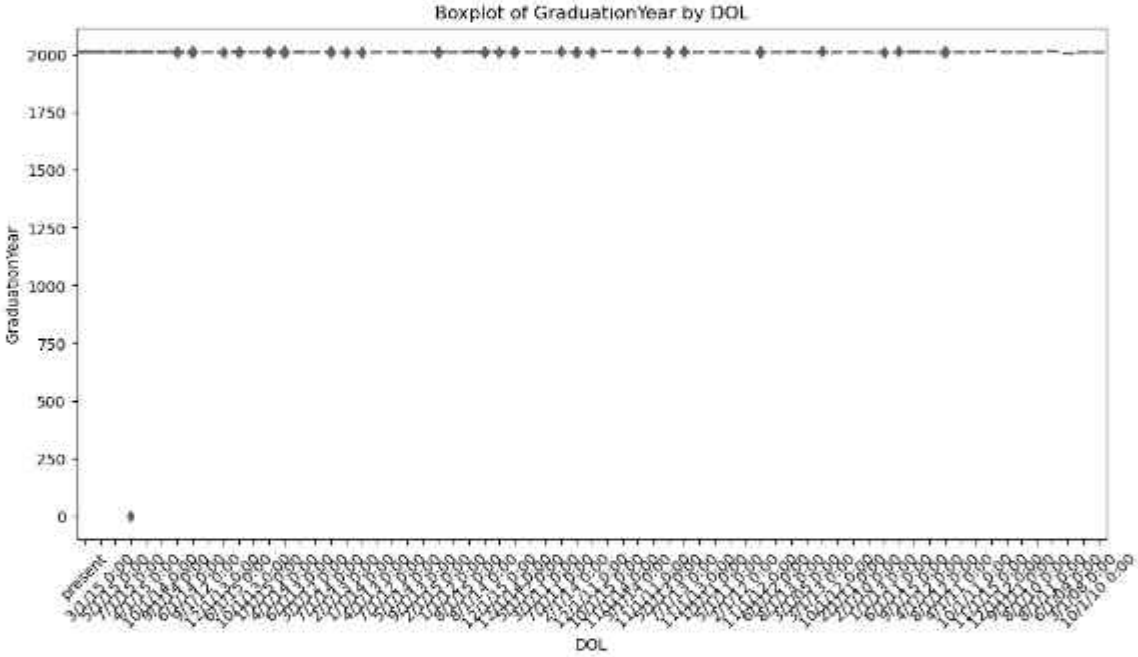

Boxplot of CollegeID by DOL
CollegeID
17500
15000
12500
10000
7500
5000
2500
0
DOL

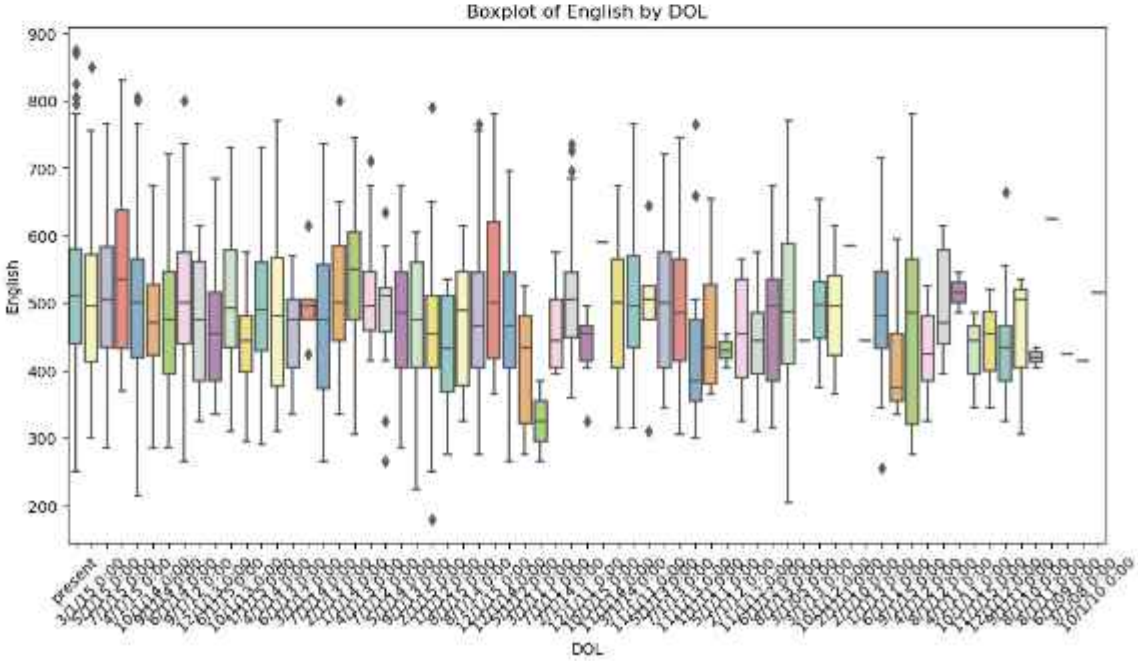

Boxplot of CollegeTier by DOL
CollegeTier
2.0
1.8
1.6
1.4
1.2
1.0
DOL

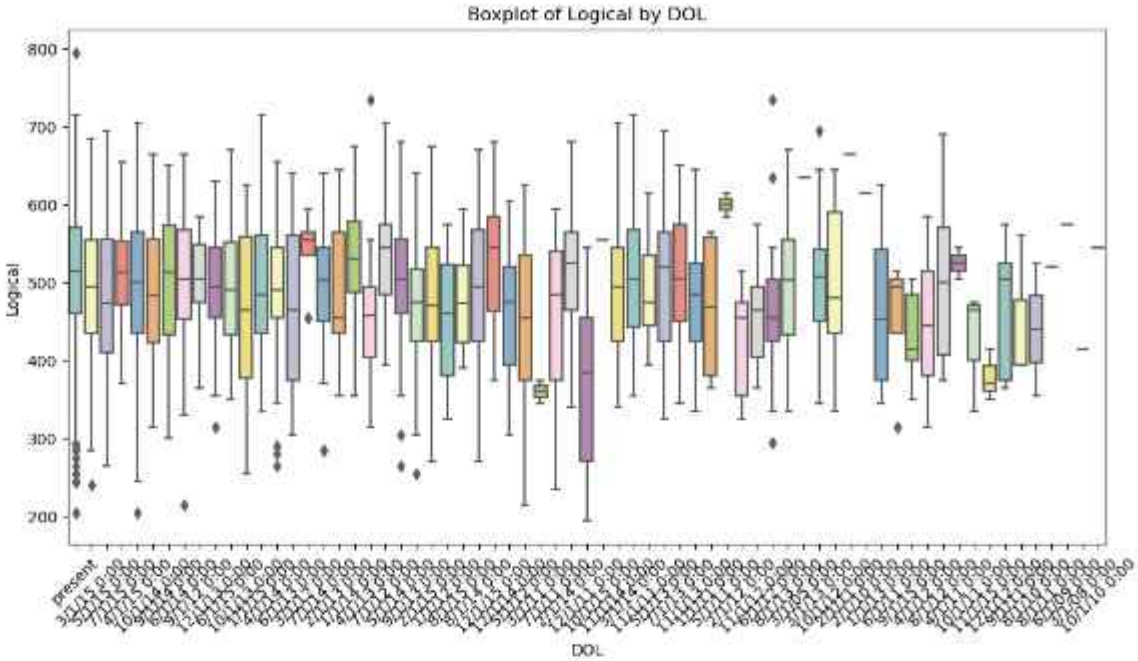

Boxplot of collegeGPA by DOL
collegeGPA
100
80
60
40
20
DOL

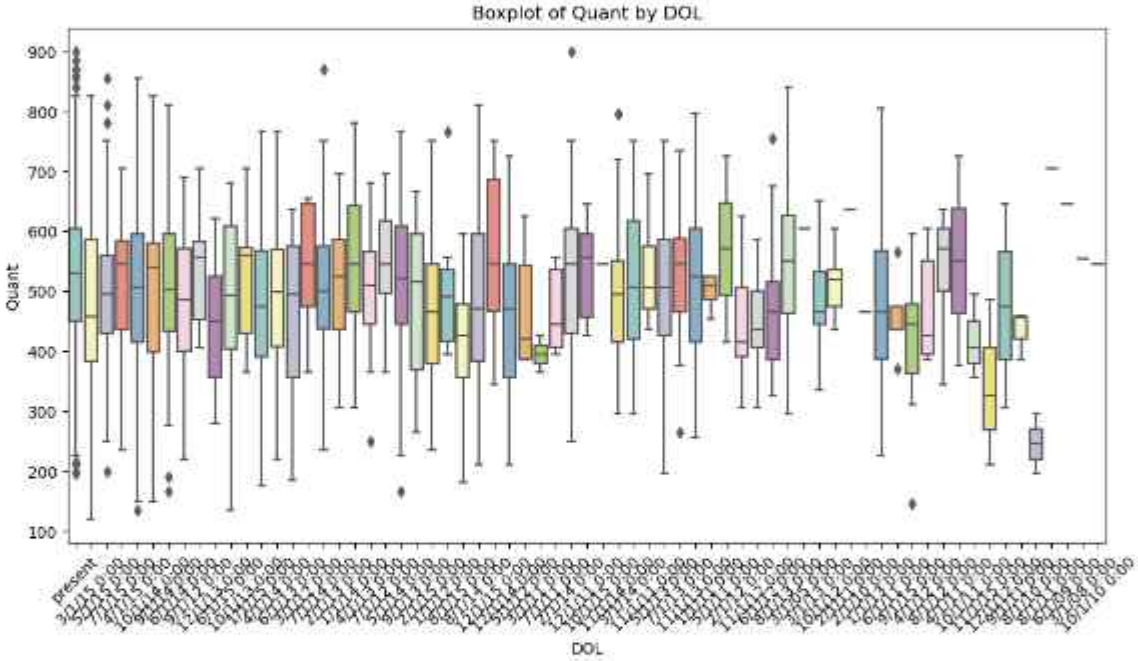

Boxplot of CollegeCityID by DOL
CollegeCityID
17500
15000
12500
10000
7500
5000
2500
0
DOL

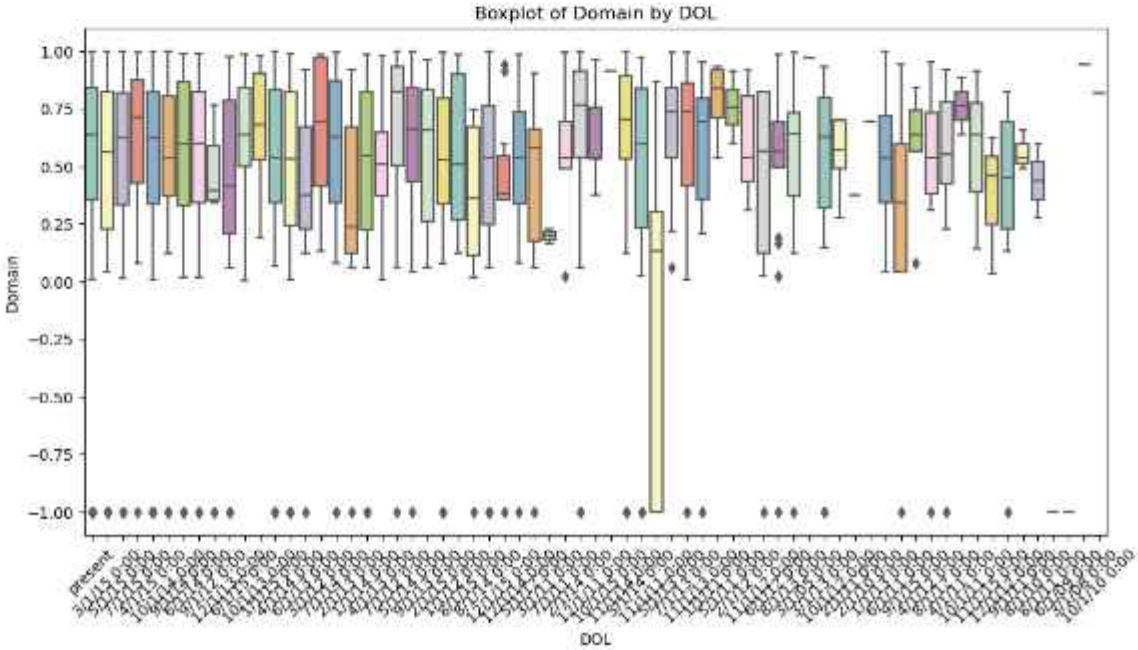

Boxplot of CollegeCityTier by DOL
CollegeCityTier
DOL

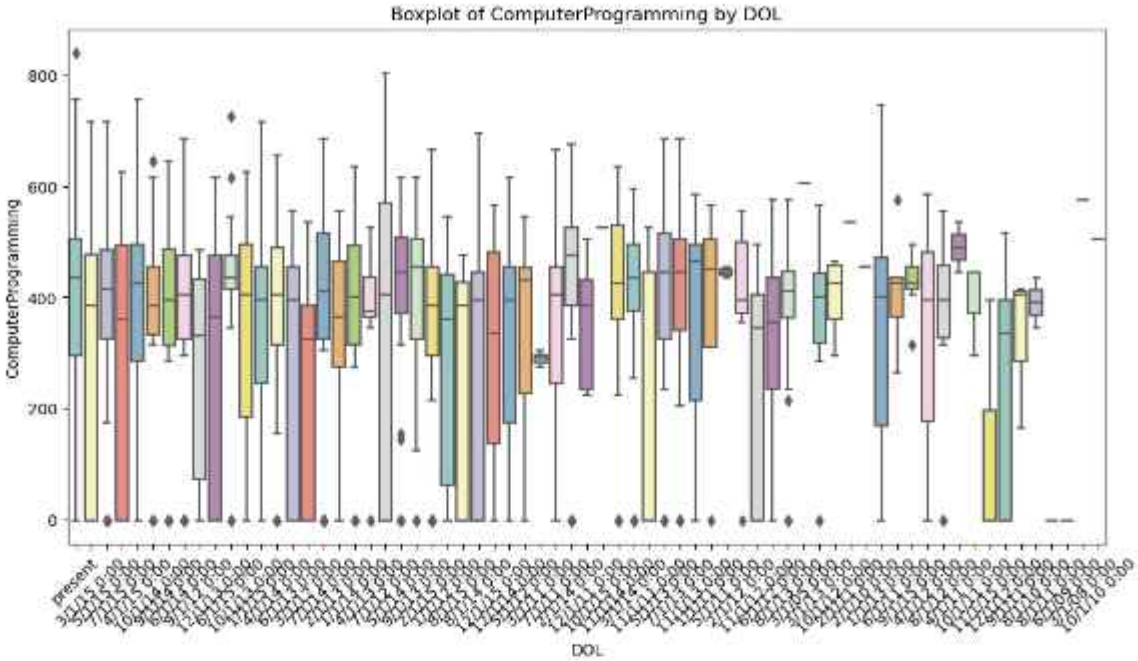

Boxplot of GraduationYear by DOL
GraduationYear
DOL

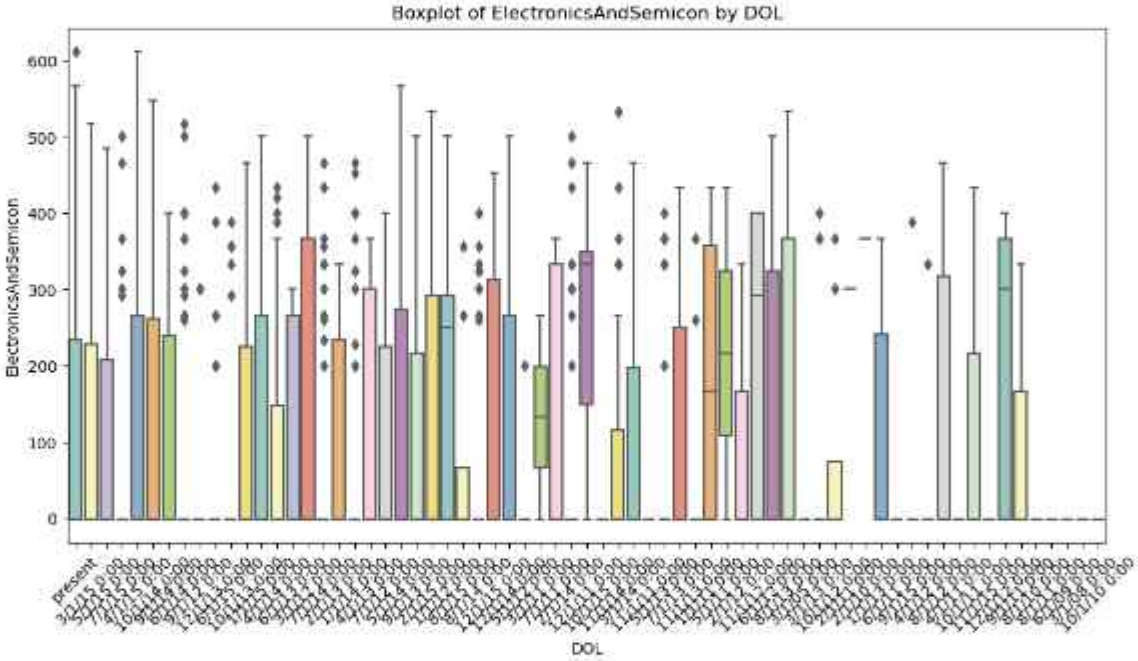

Boxplot of English by DOL
English
DOL

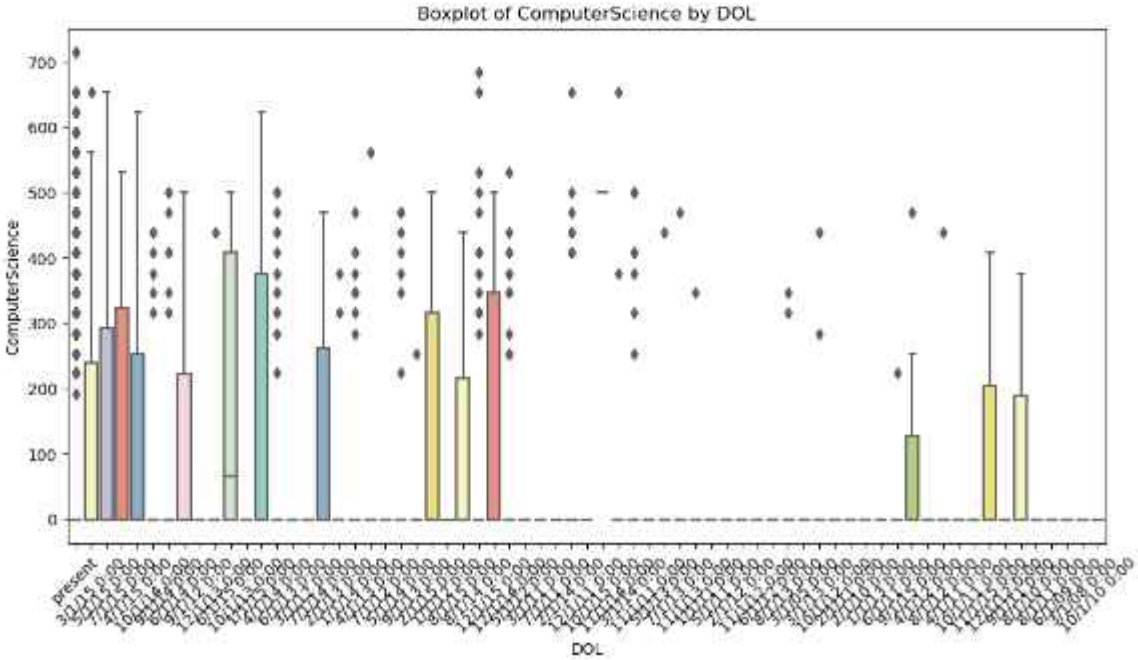

Boxplot of Logical by DOL
Logical
DOL

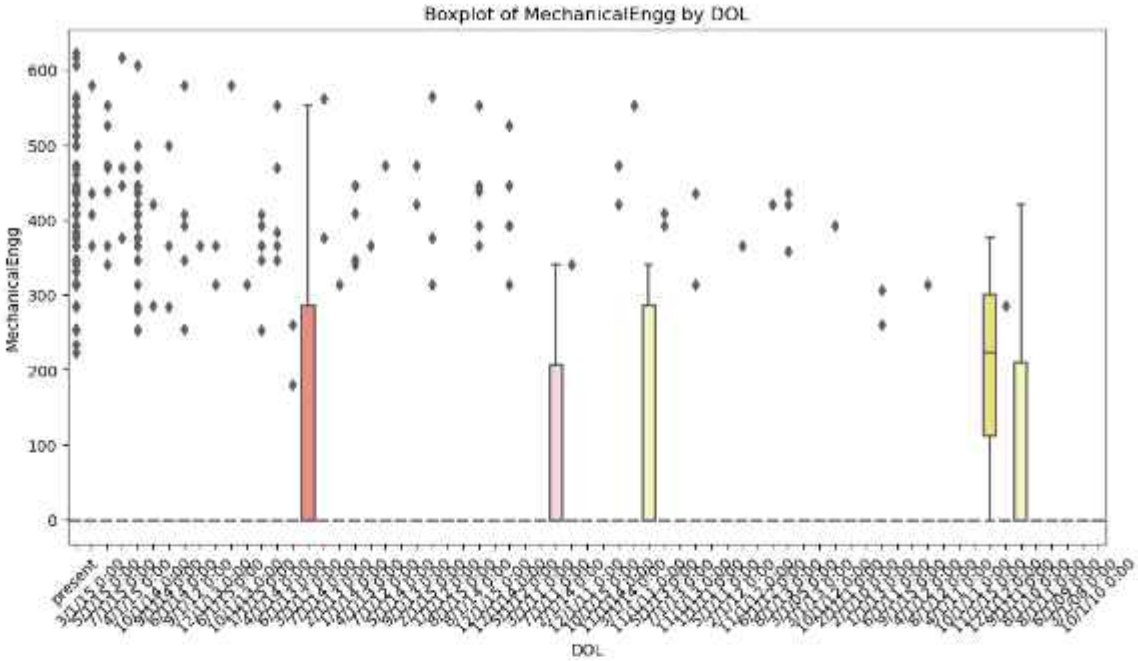

Boxplot of Quant by DOL
Quant
DOL

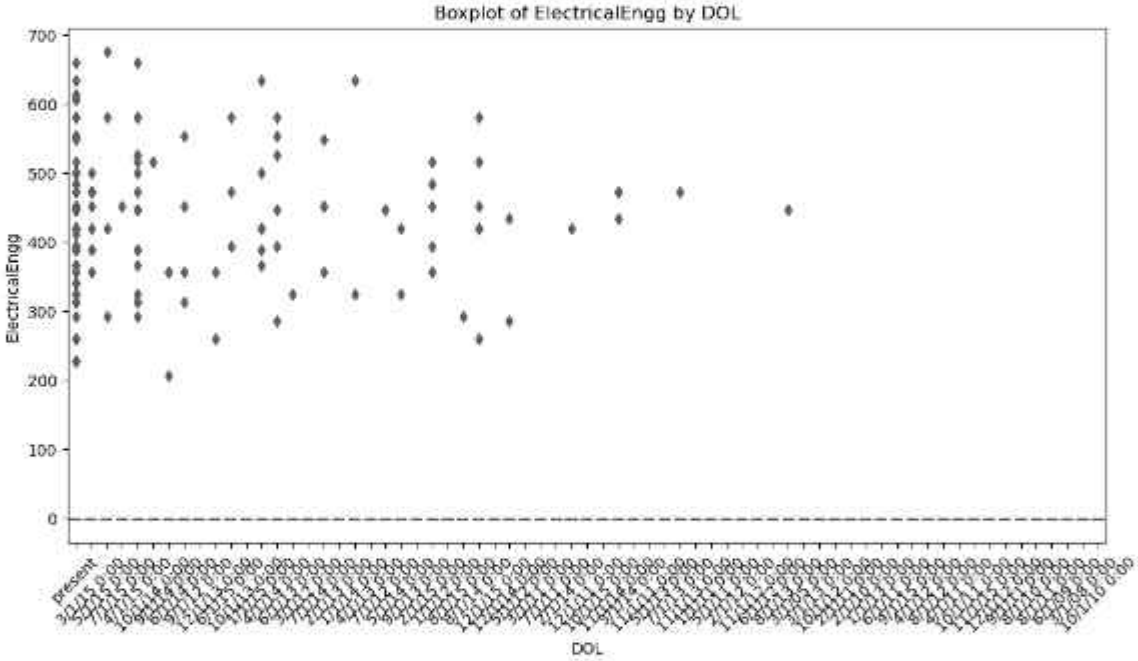

Boxplot of Domain by DOL
Domain
DOL

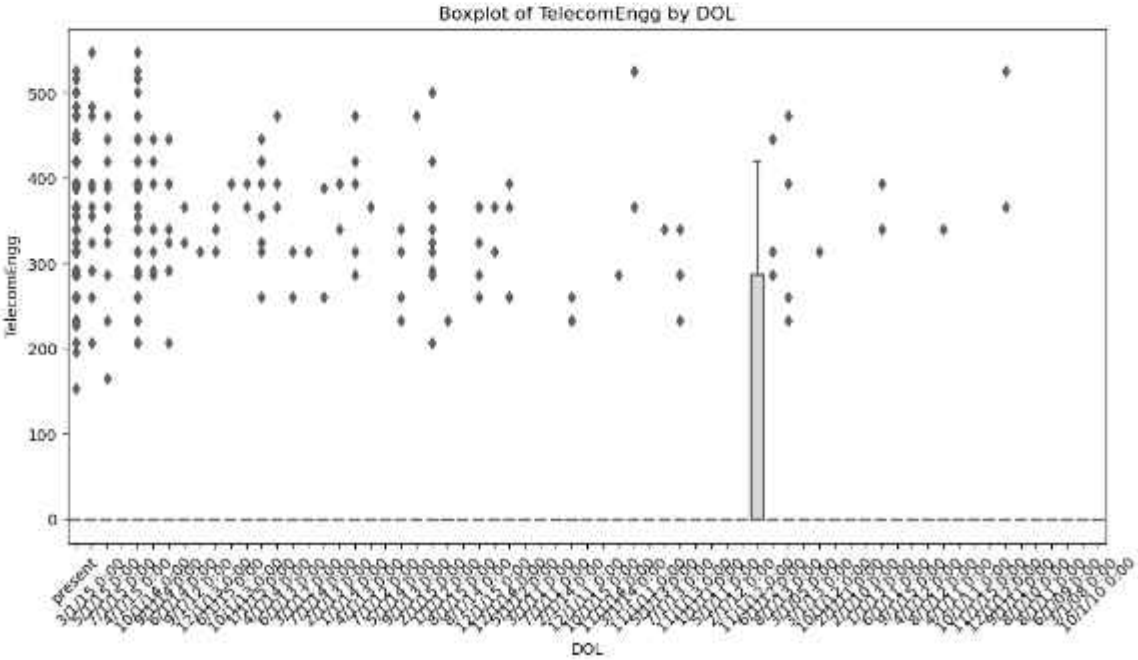

Boxplot of ComputerProgramming by DOL
ComputerProgramming
DOL

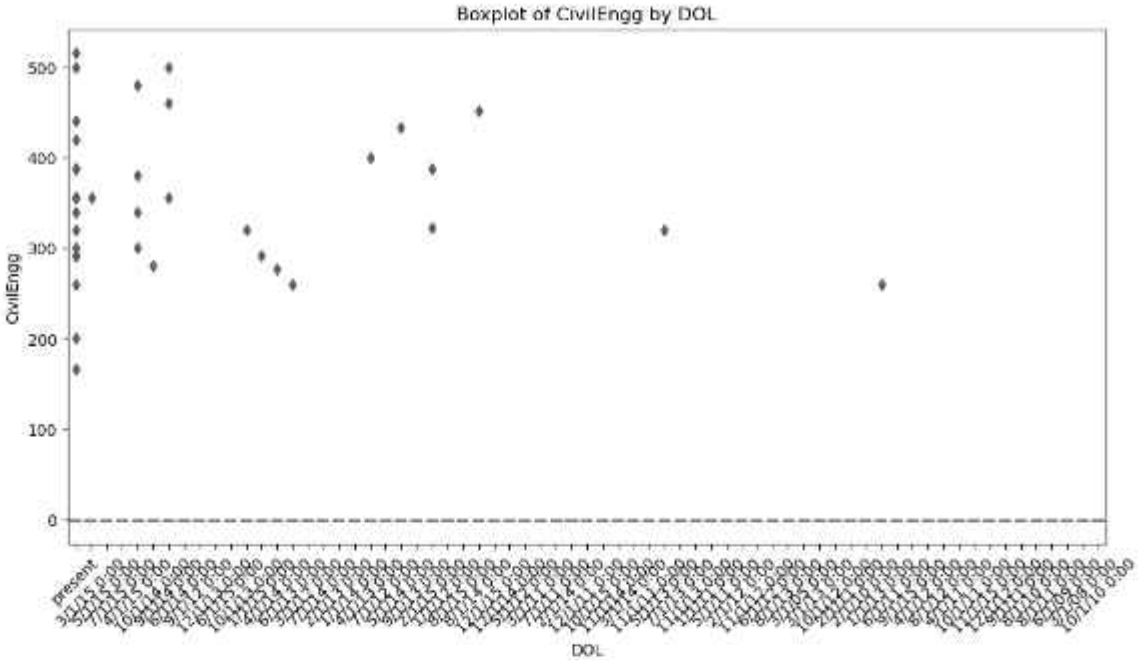

Boxplot of ElectronicsAndSemicon by DOL
ElectronicsAndSemicon
DOL

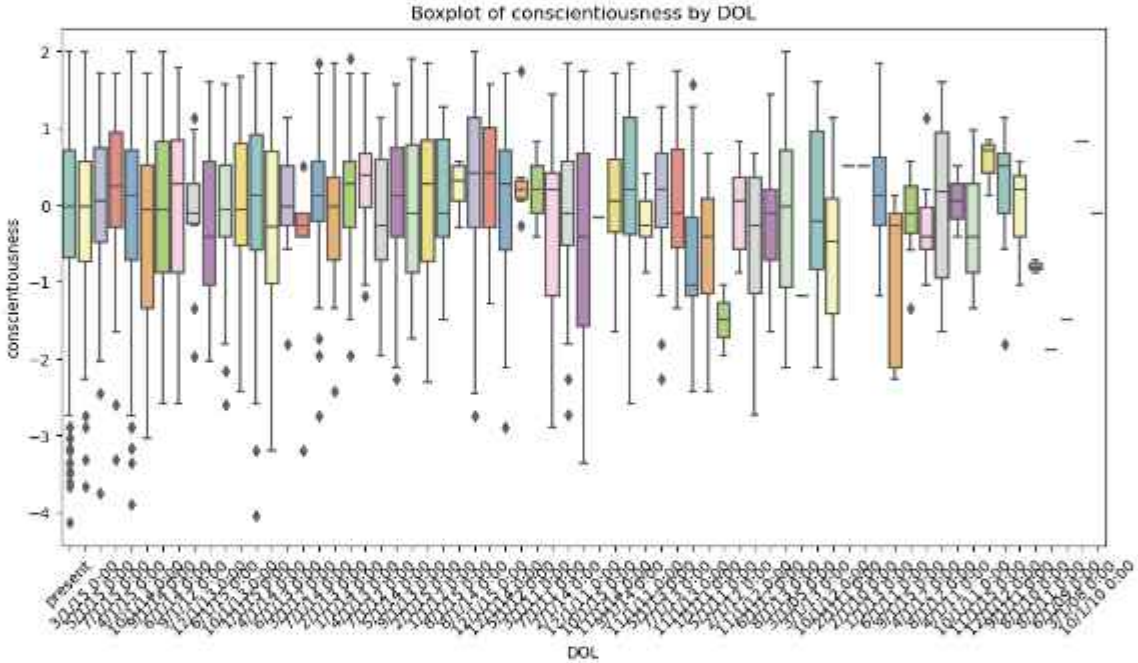

Boxplot of ComputerScience by DOL
ComputerScience
DOL

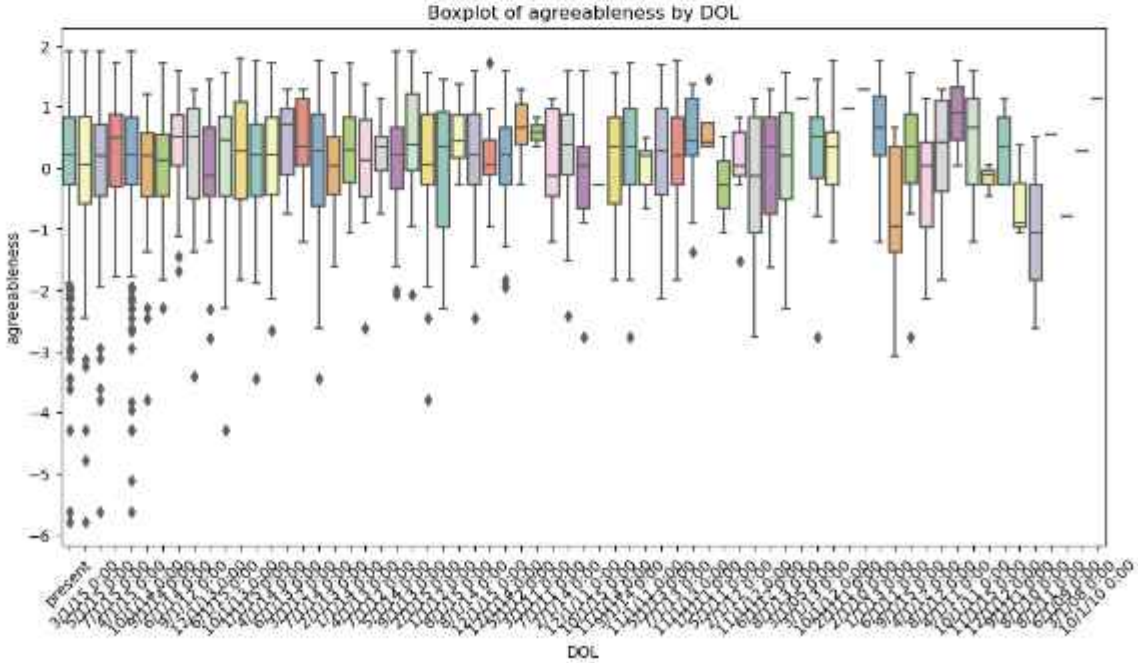

Boxplot of MechanicalEngg by DOL
MechanicalEngg
DOL

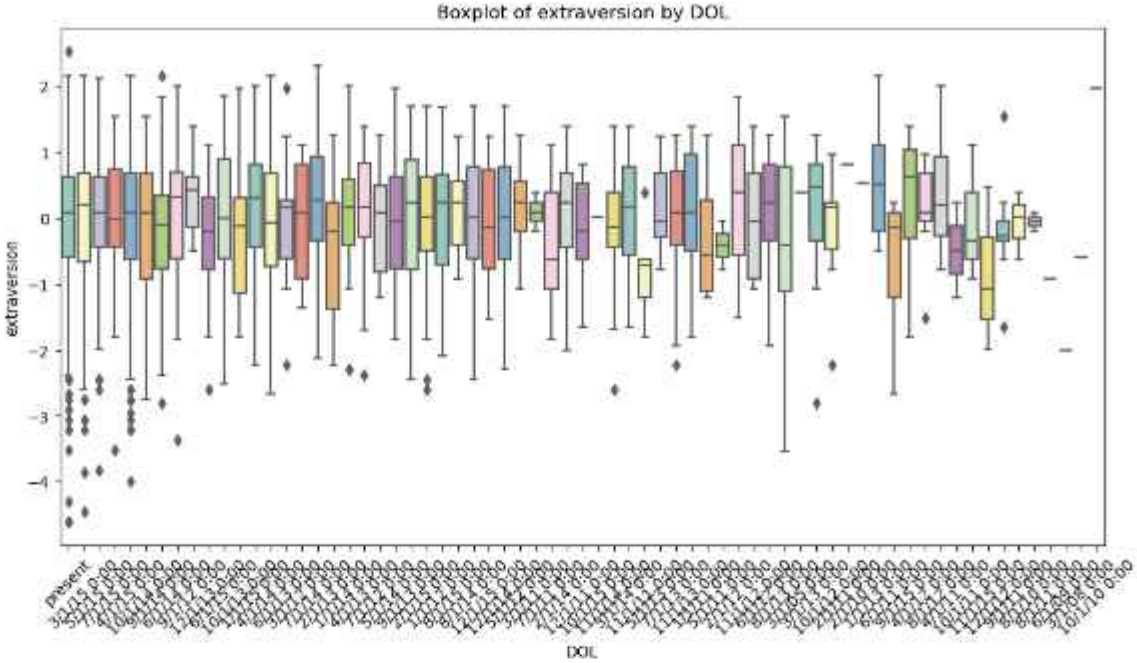

Boxplot of ElectricalEngg by DOL
ElectricalEngg
DOL

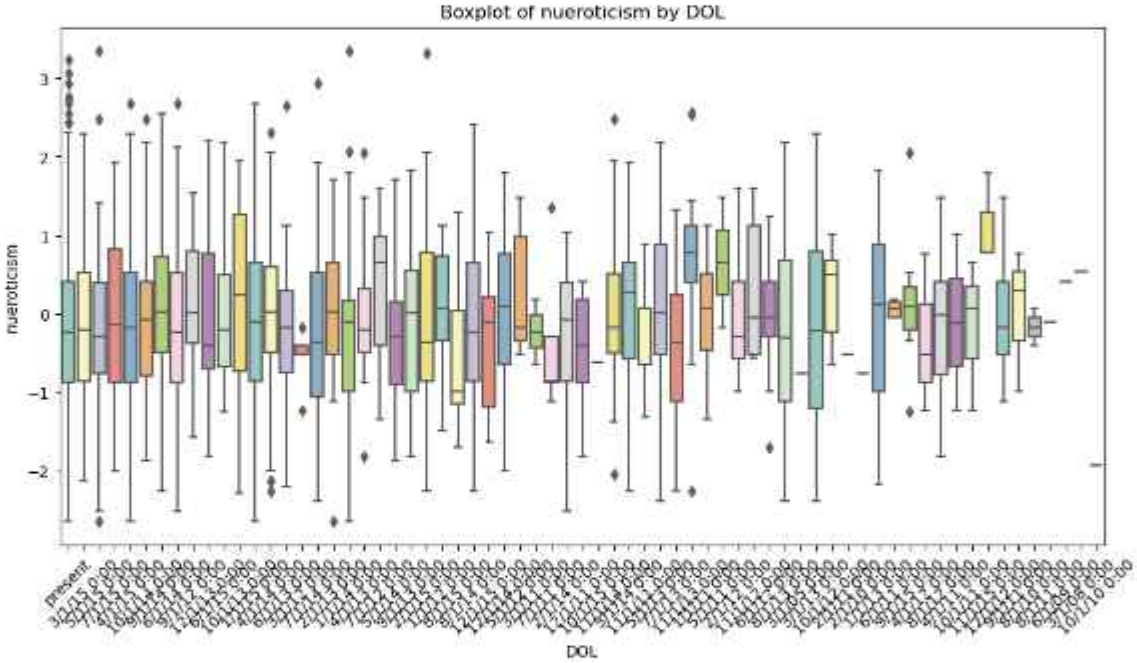

Boxplot of TelecomEngg by DOL
TelecomEngg
DOL

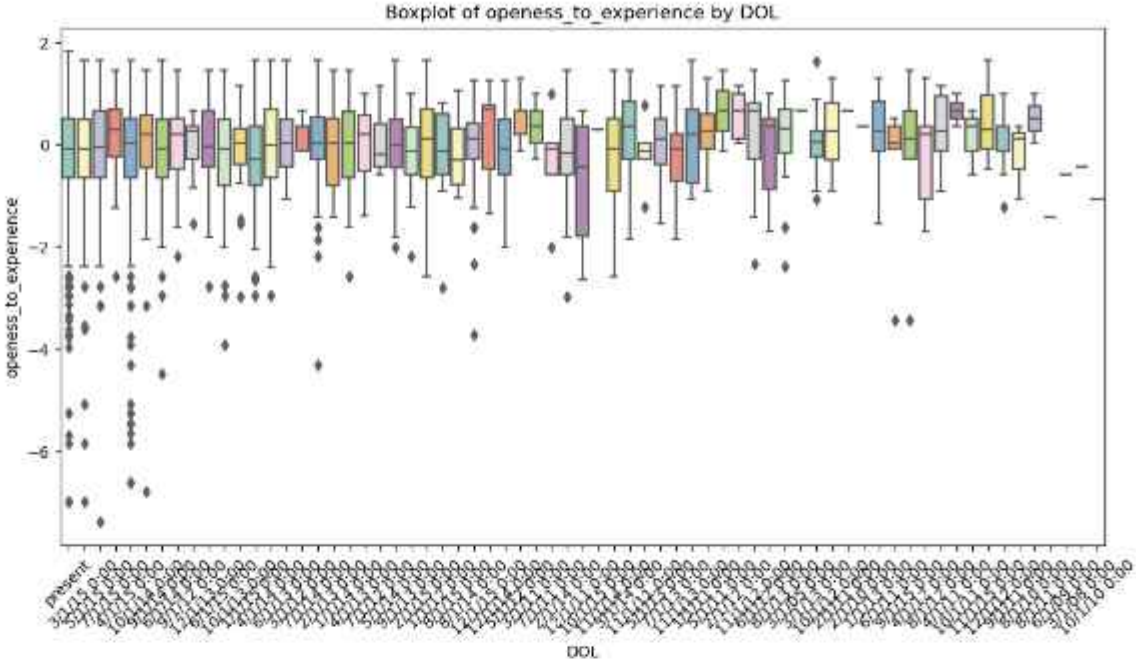

Boxplot of CivilEngg by DOL
CivilEngg
DOL

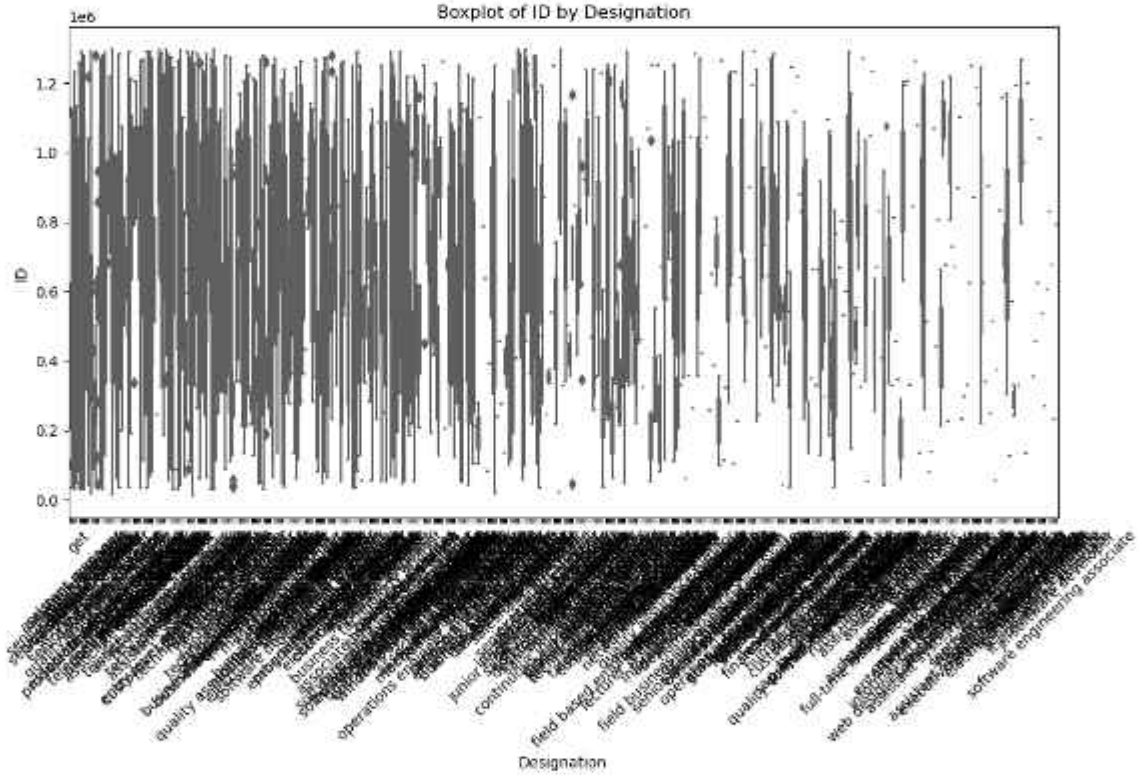

Boxplot of conscientiousness by DOL
conscientiousness
DOL

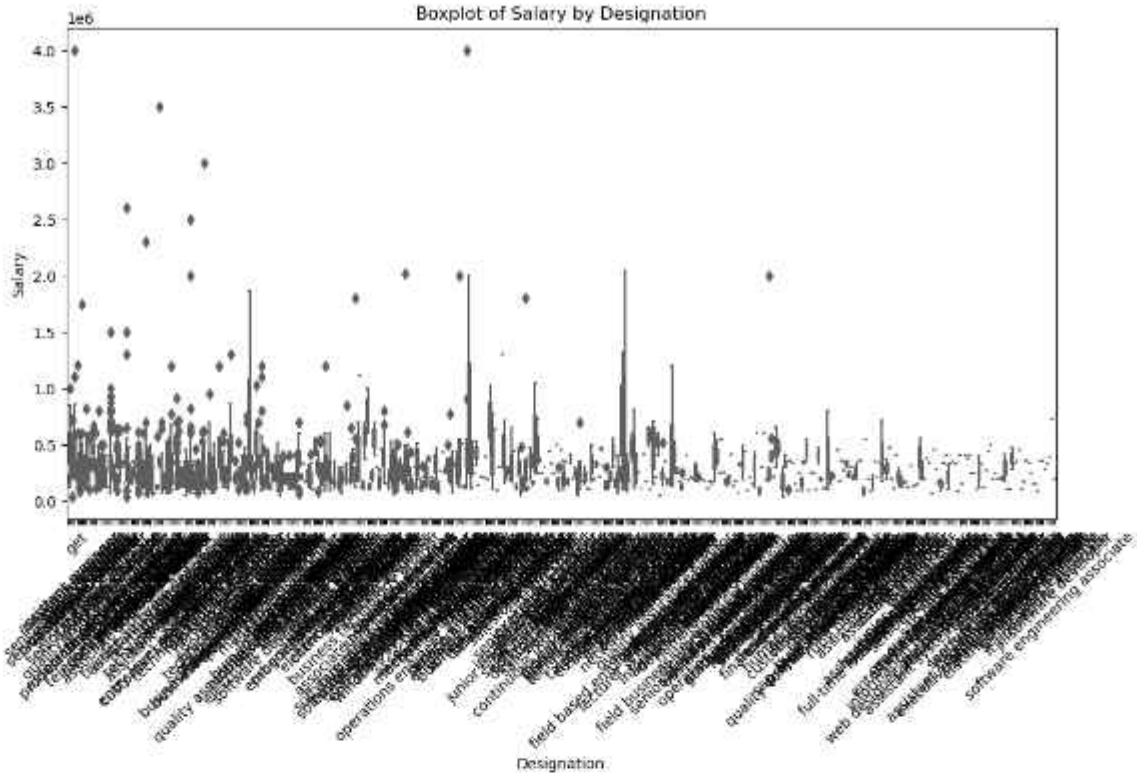

Boxplot of agreeableness by DOL
agreeableness
DOL

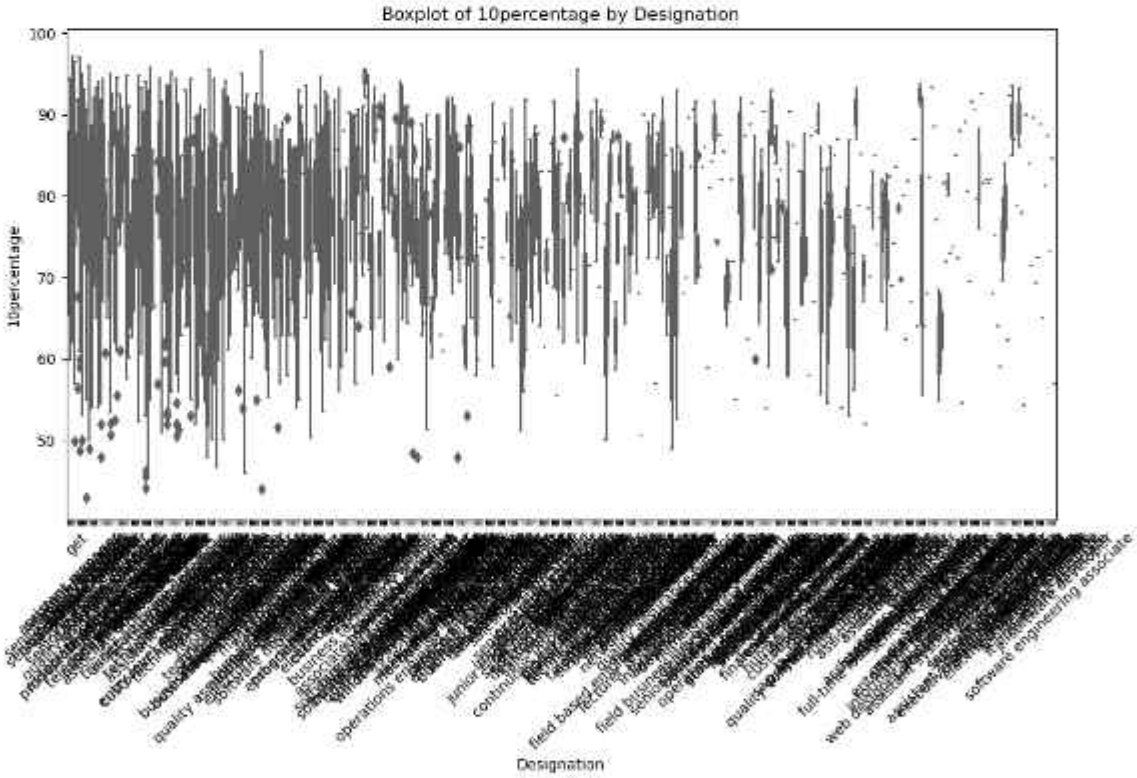

Boxplot of extraversion by DOL
extraversion
DOL

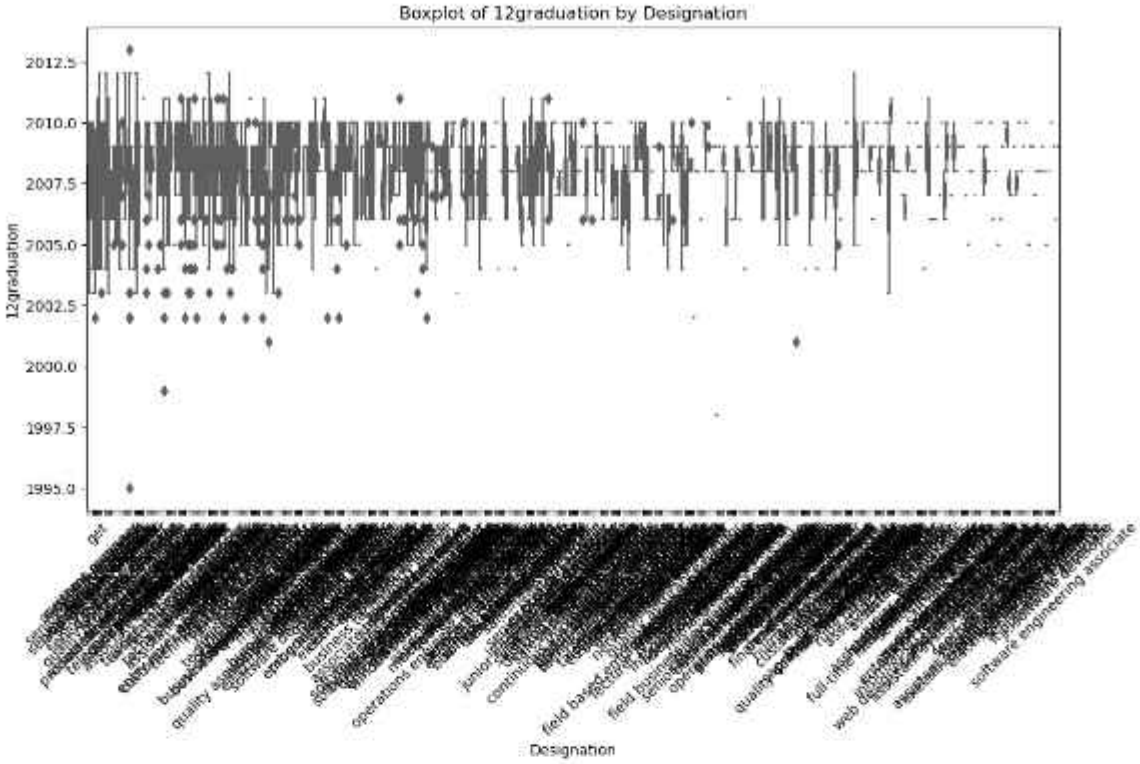

Boxplot of nueroticism by DOL
nueroticism
DOL

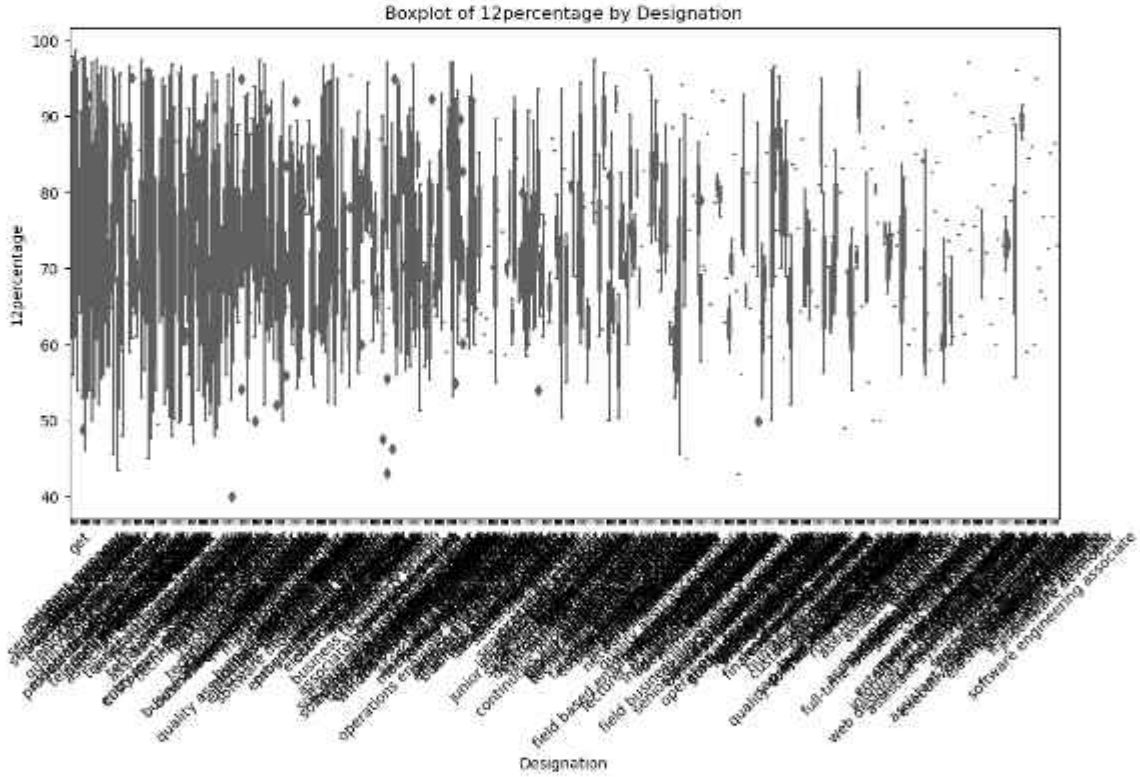

Boxplot of openess_to_experience by DOL
openess_to_experience
DOL

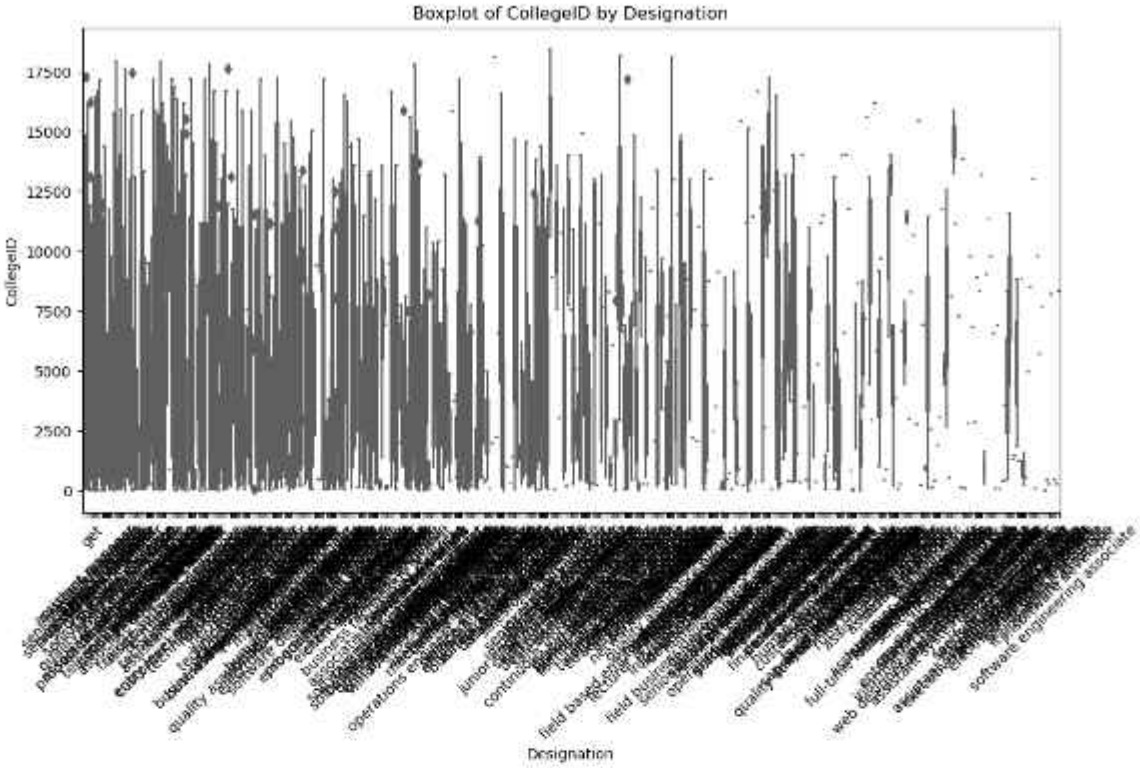

Boxplot of ID by Designation
1e6
ID
Designation

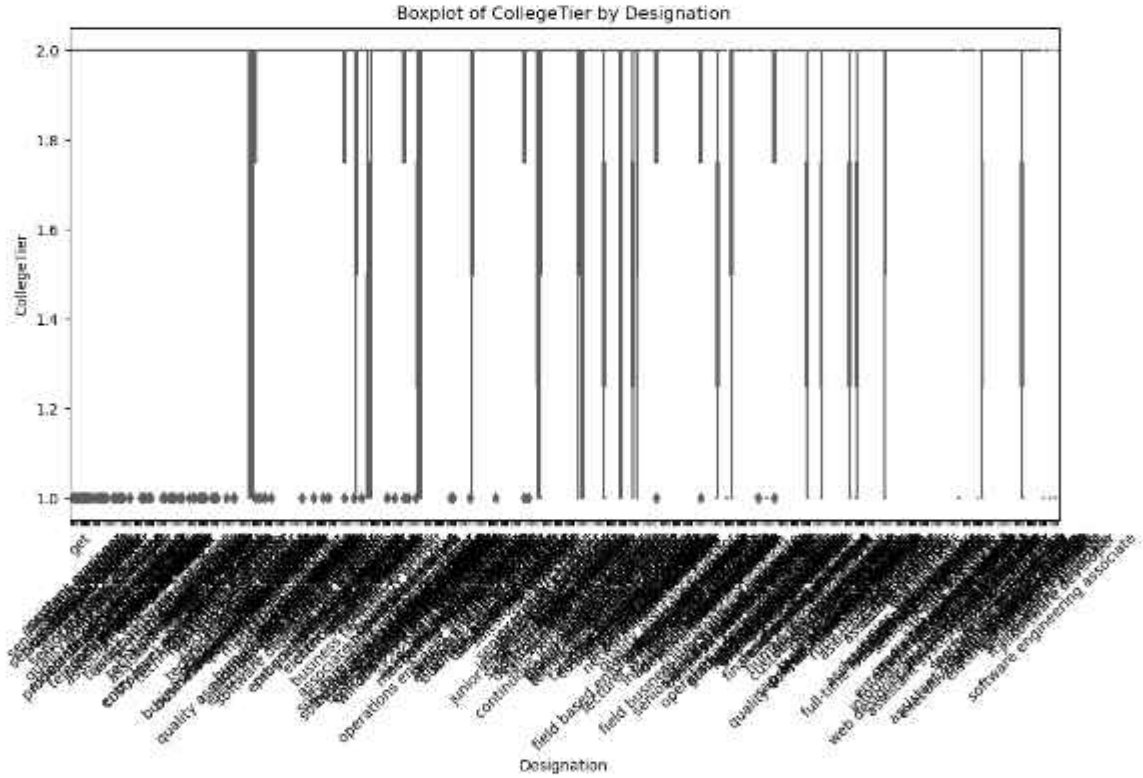

Boxplot of Salary by Designation
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
get
Designation

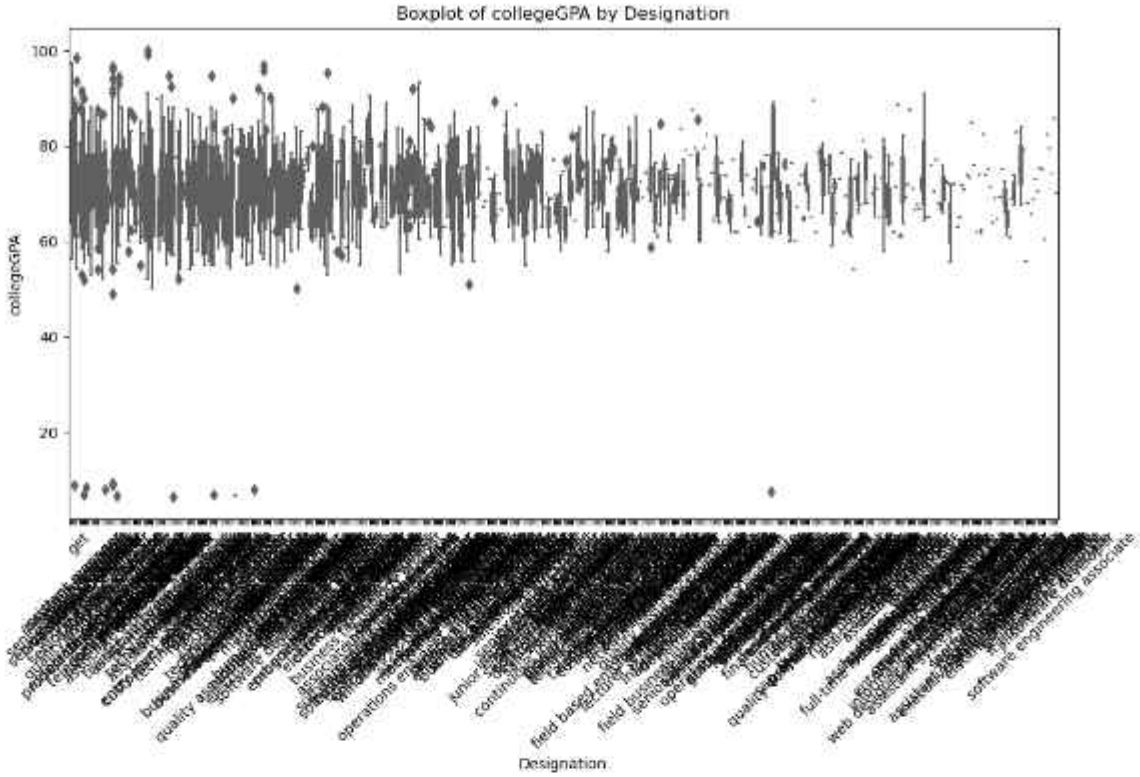

Boxplot of 10percentage by Designation
100
90
80
70
60
50
10percentage
get
Designation

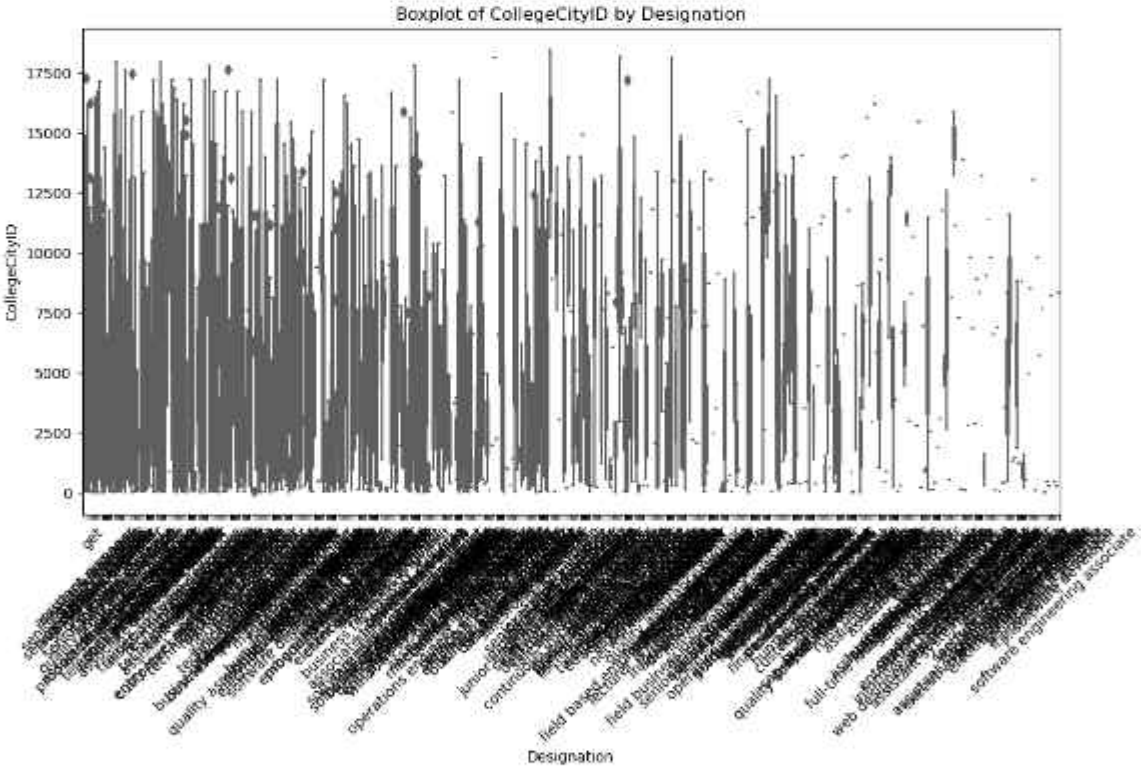

Boxplot of 12graduation by Designation
12graduation
2012.5
2010.0
2007.5
2005.0
2002.5
2000.0
1997.5
1995.0
Designation

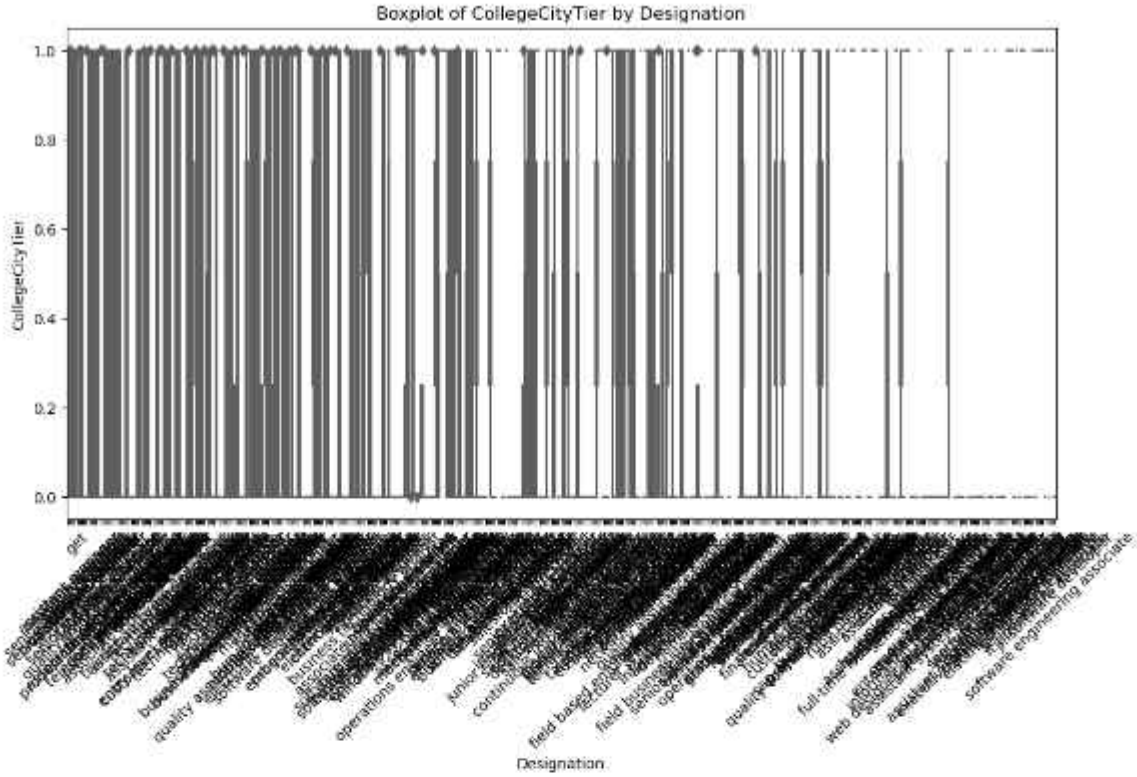

Boxplot of 12percentage by Designation
12percentage
100
90
80
70
60
50
40
Designation

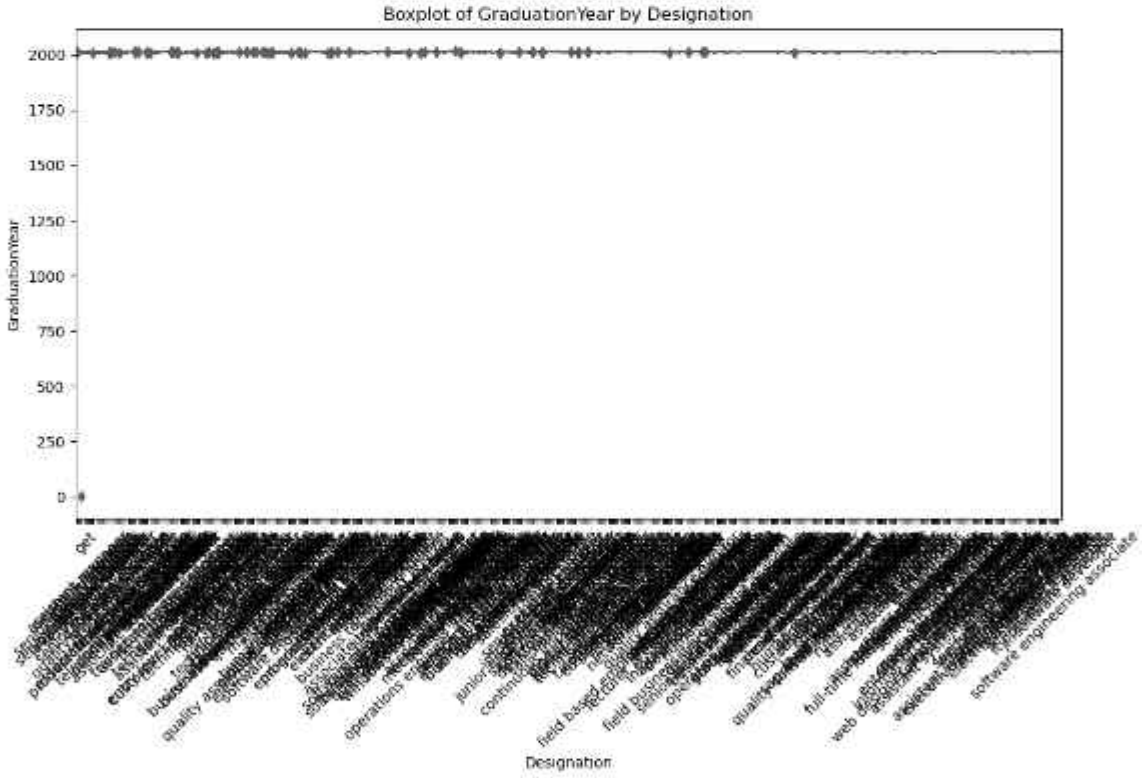

Boxplot of CollegeID by Designation
CollegeID
17500
15000
12500
10000
7500
5000
2500
0
Designation

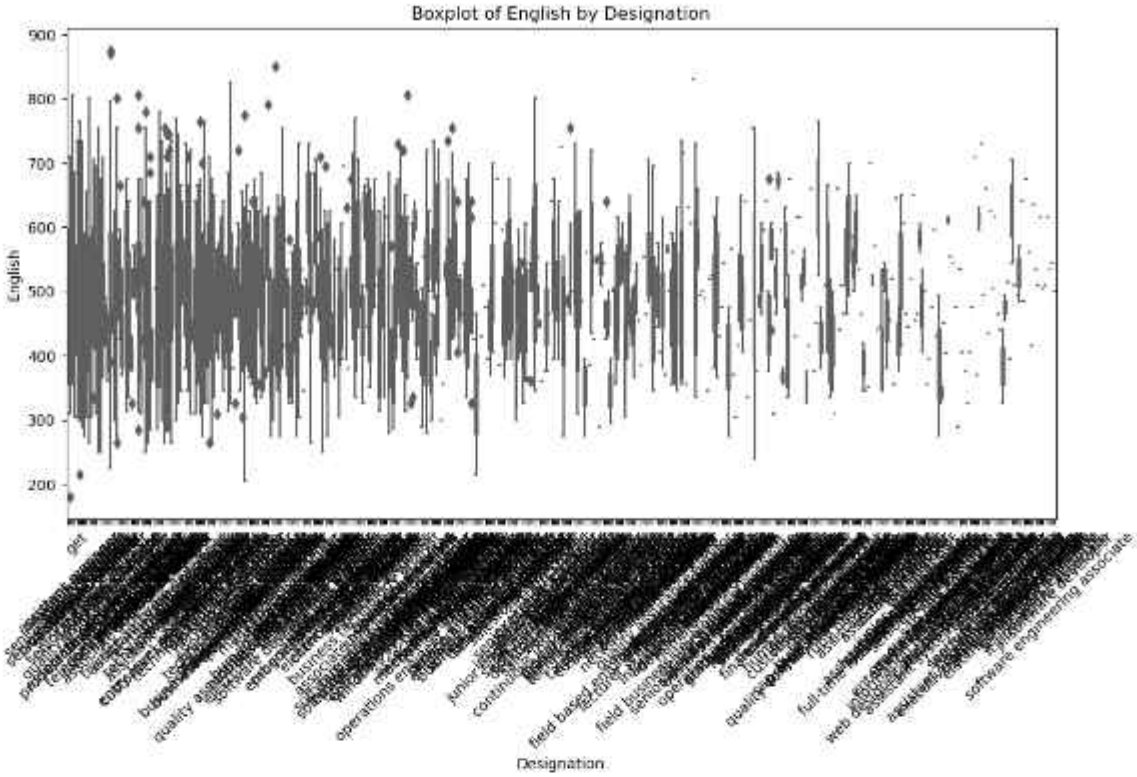

Boxplot of CollegeTier by Designation
CollegeTier
2.0
1.8
1.6
1.4
1.2
1.0
Designation

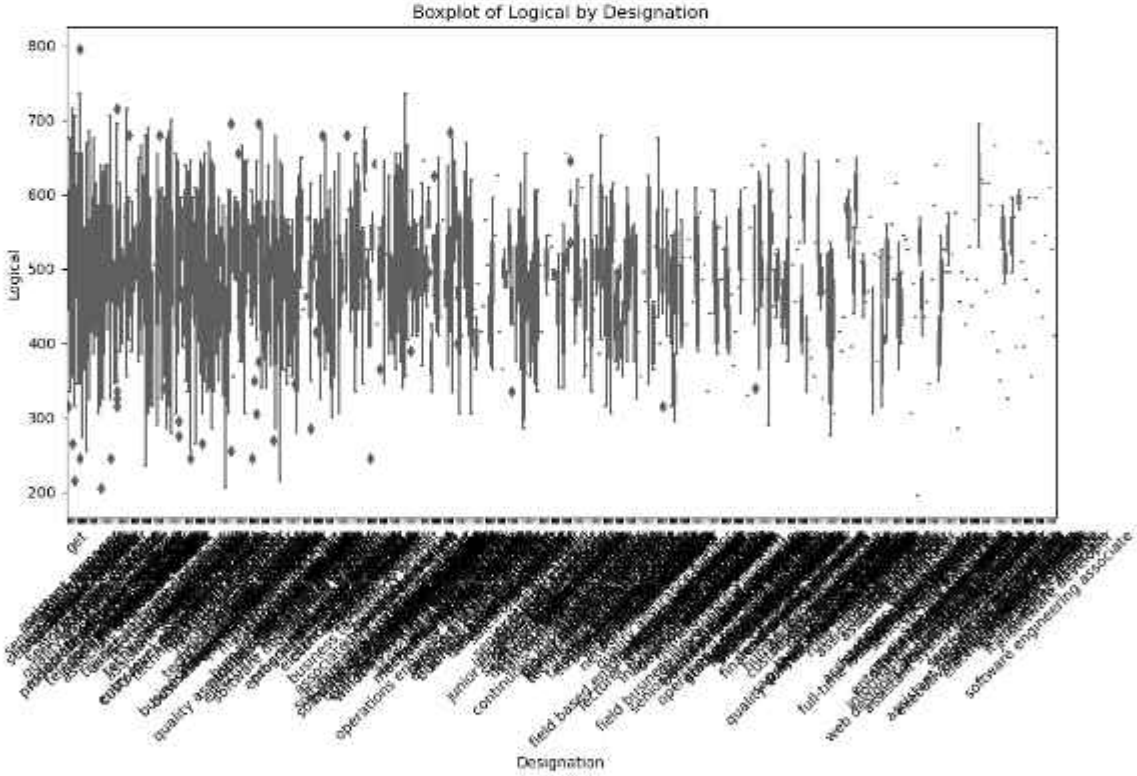

Boxplot of collegeGPA by Designation
collegeGPA
100
80
60
40
20
Designation

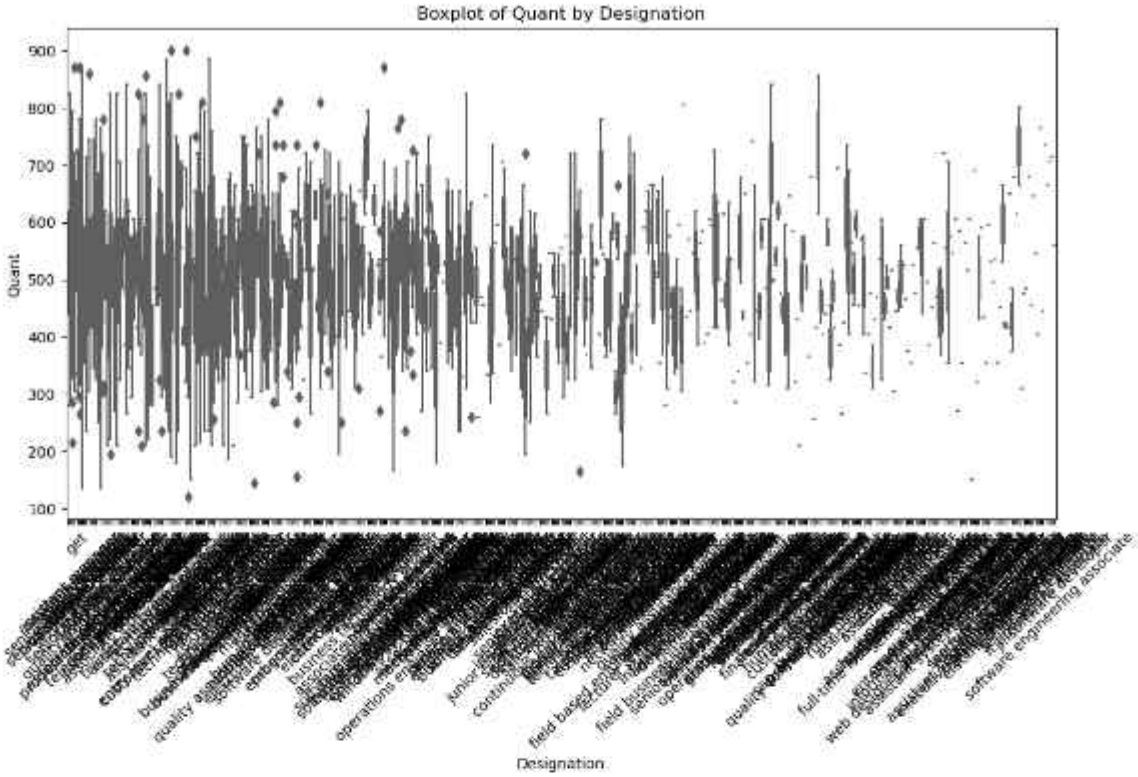

Boxplot of CollegeCityID by Designation
CollegeCityID
17500
15000
12500
10000
7500
5000
2500
0
Designation

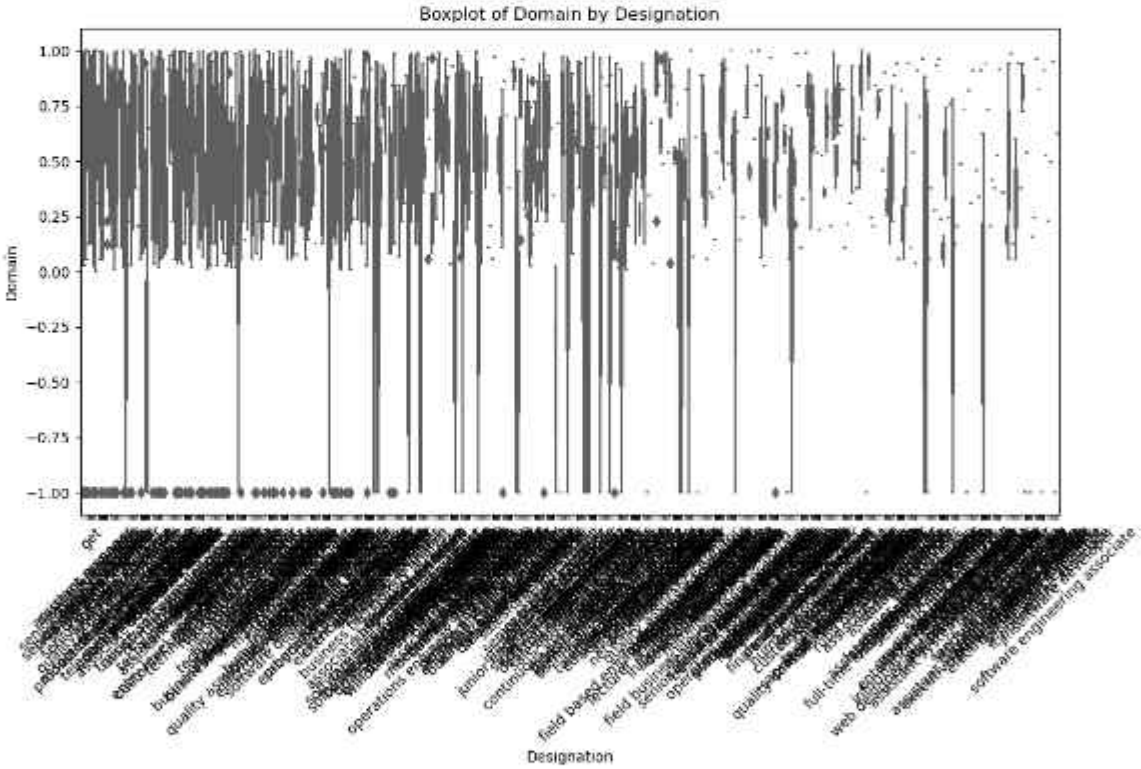

Boxplot of CollegeCityTier by Designation
CollegeCityTier
1.0
0.8
0.6
0.4
0.2
0.0
Designation

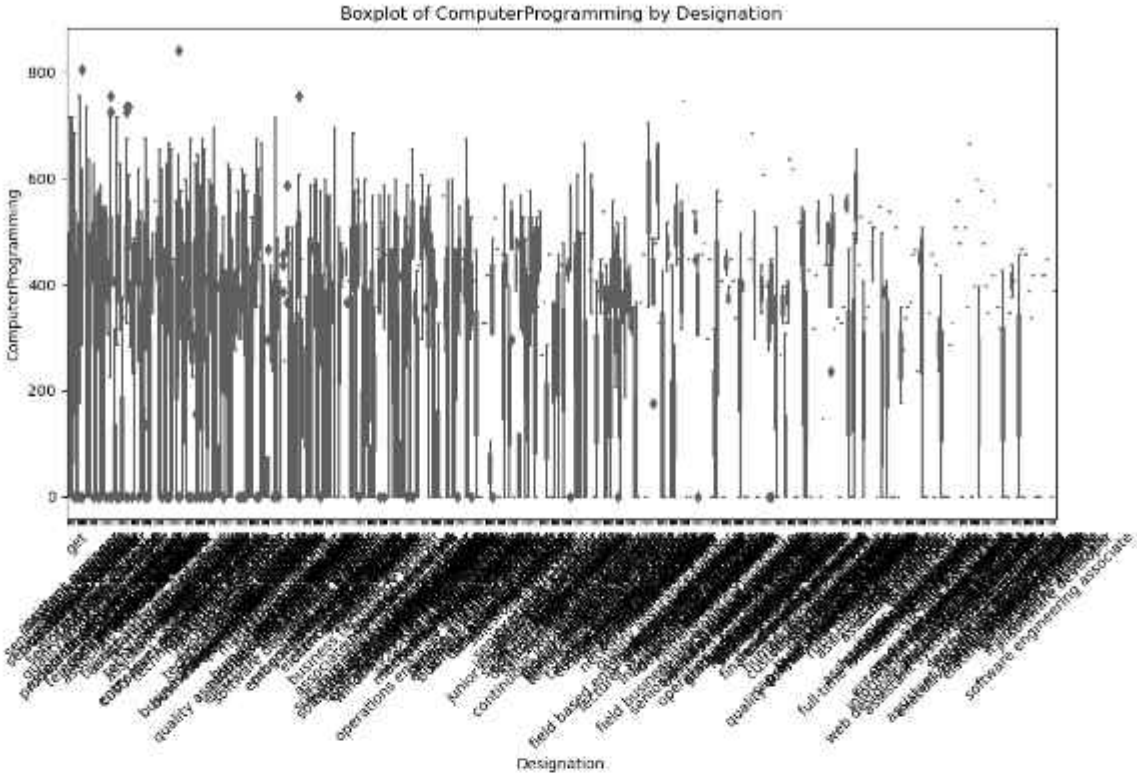

Boxplot of GraduationYear by Designation
GraduationYear
2000
1750
1500
1250
1000
750
500
250
0
Designation

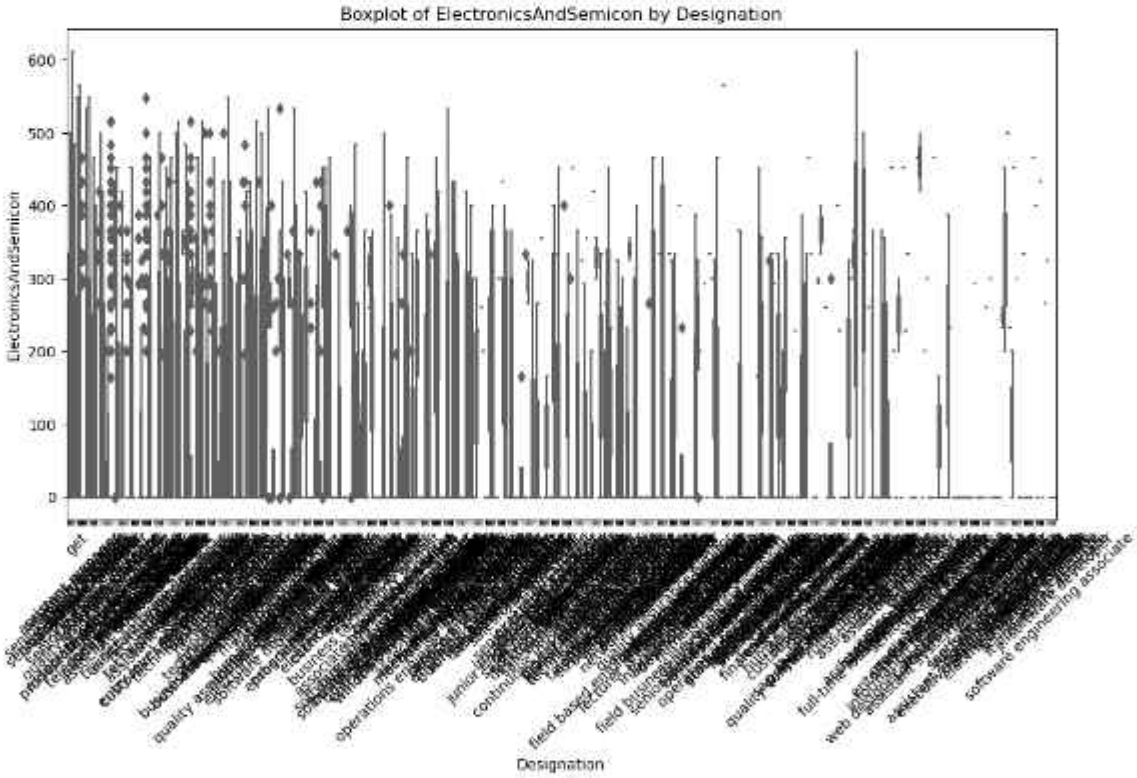

Boxplot of English by Designation
English
900
800
700
600
500
400
300
200
Designation

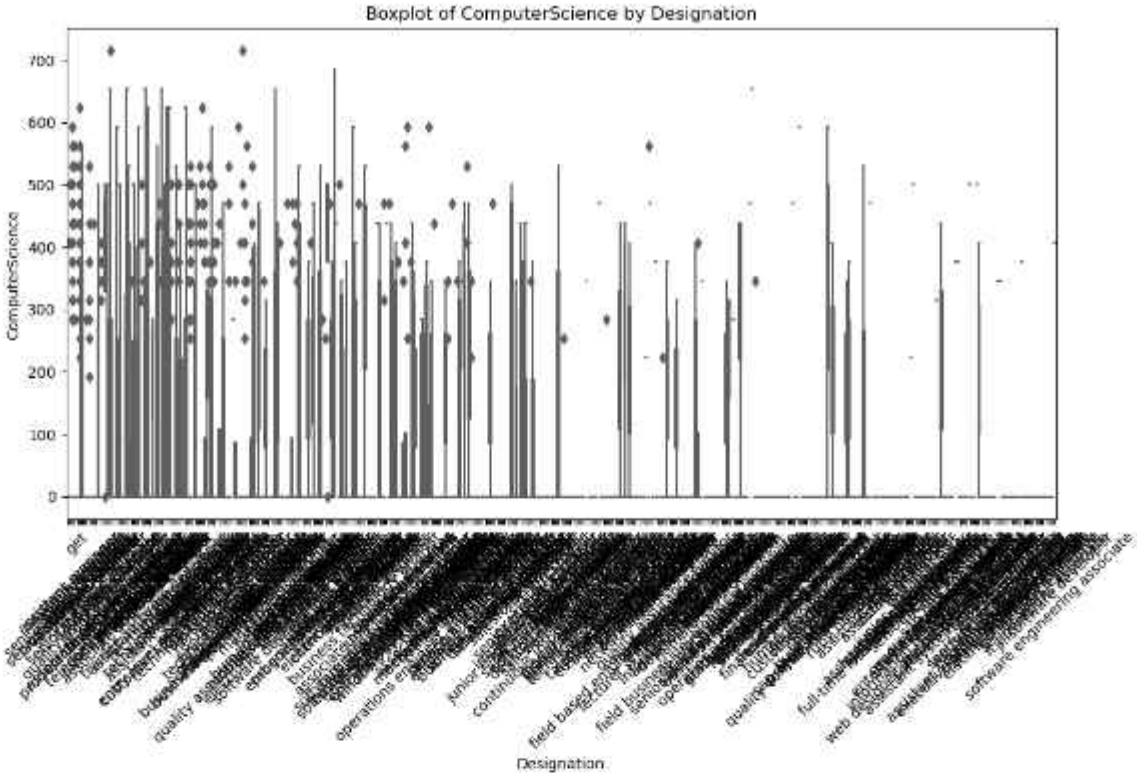

Boxplot of Logical by Designation
Logical
800
700
600
500
400
300
200
Designation

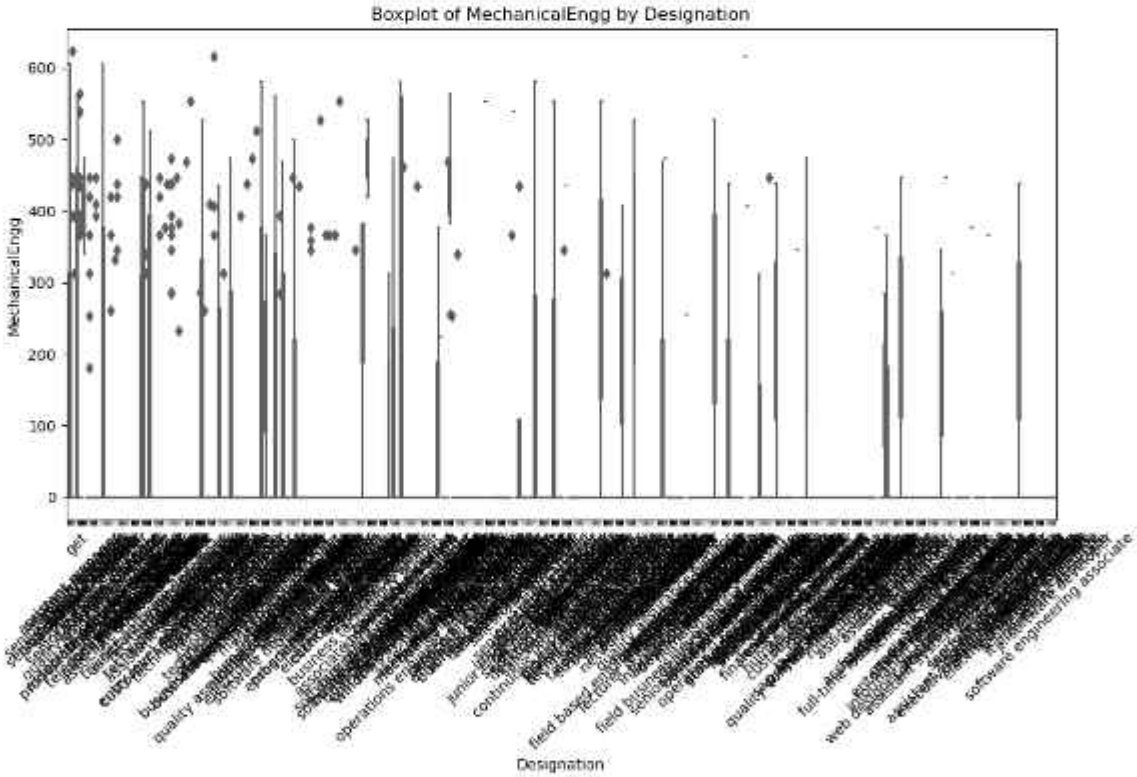

Boxplot of Quant by Designation
Quant
900
800
700
600
500
400
300
200
100
get
software engineering associate
Designation

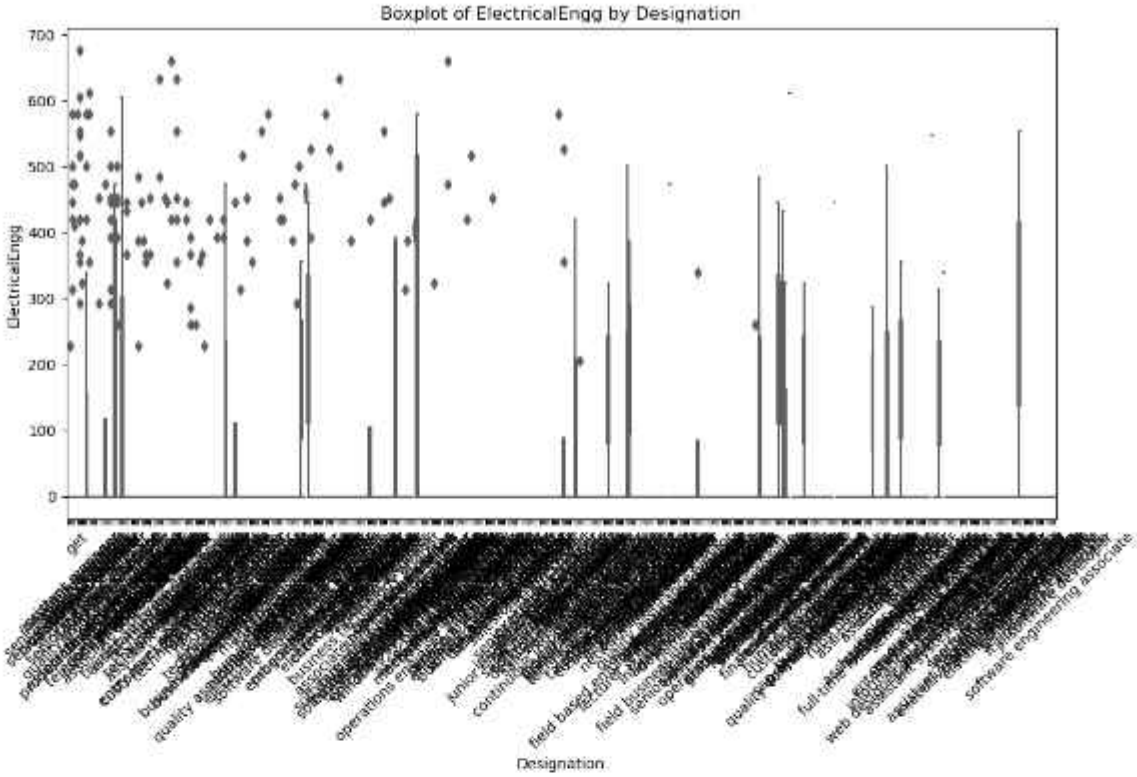

Boxplot of Domain by Designation
Domain
1.00
0.75
0.50
0.25
0.00
−0.25
−0.50
−0.75
−1.00
get
software engineering associate
Designation

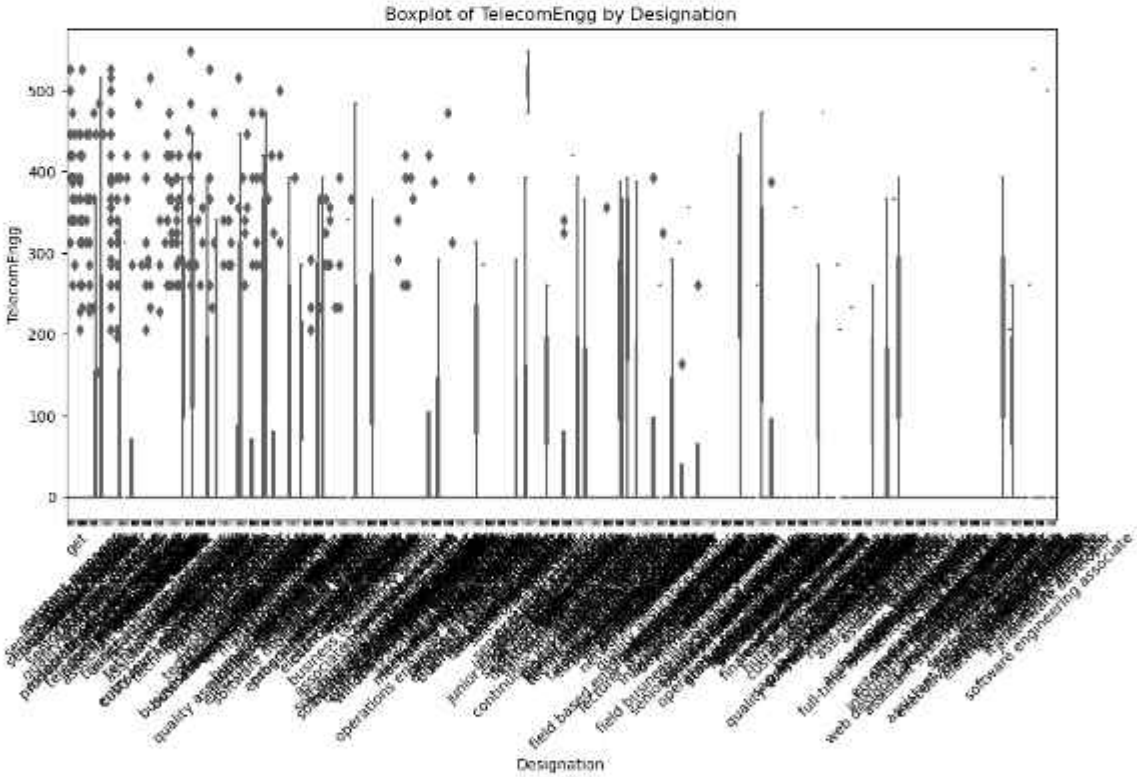

Boxplot of ComputerProgramming by Designation
ComputerProgramming
0
200
400
600
800
Designation

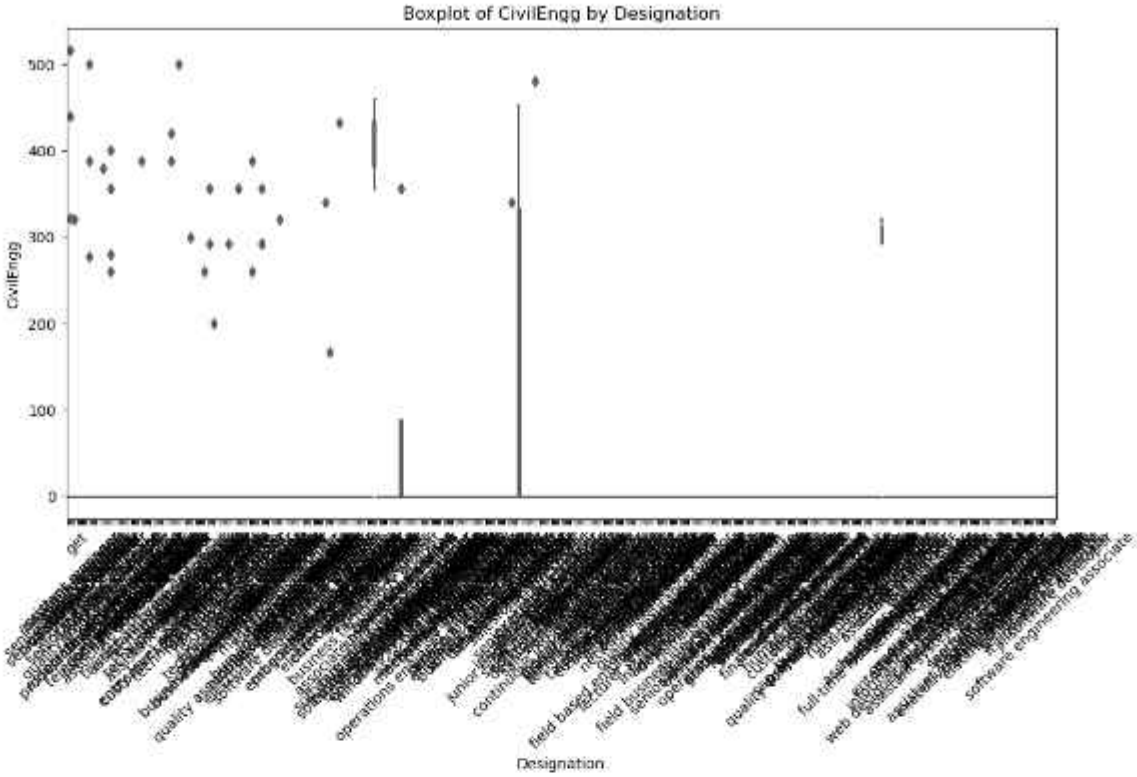

Boxplot of ElectronicsAndSemicon by Designation
ElectronicsAndSemicon
0
100
200
300
400
500
600
Designation

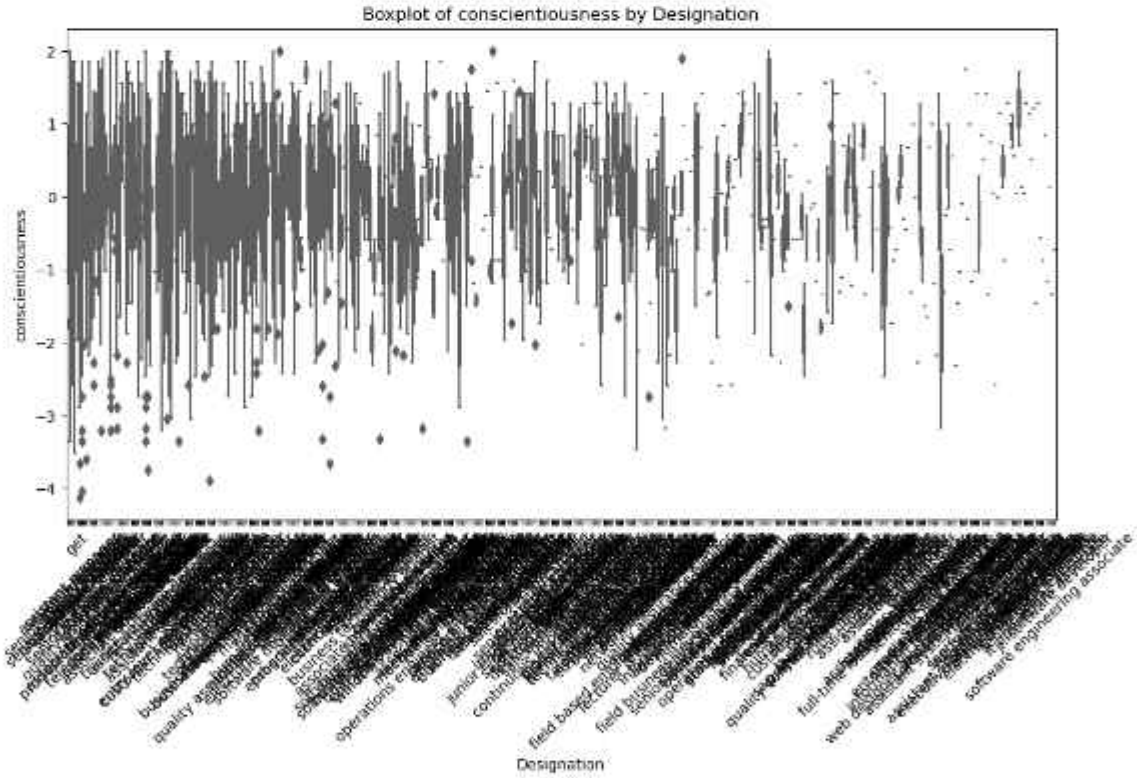

Boxplot of ComputerScience by Designation
ComputerScience
Designation

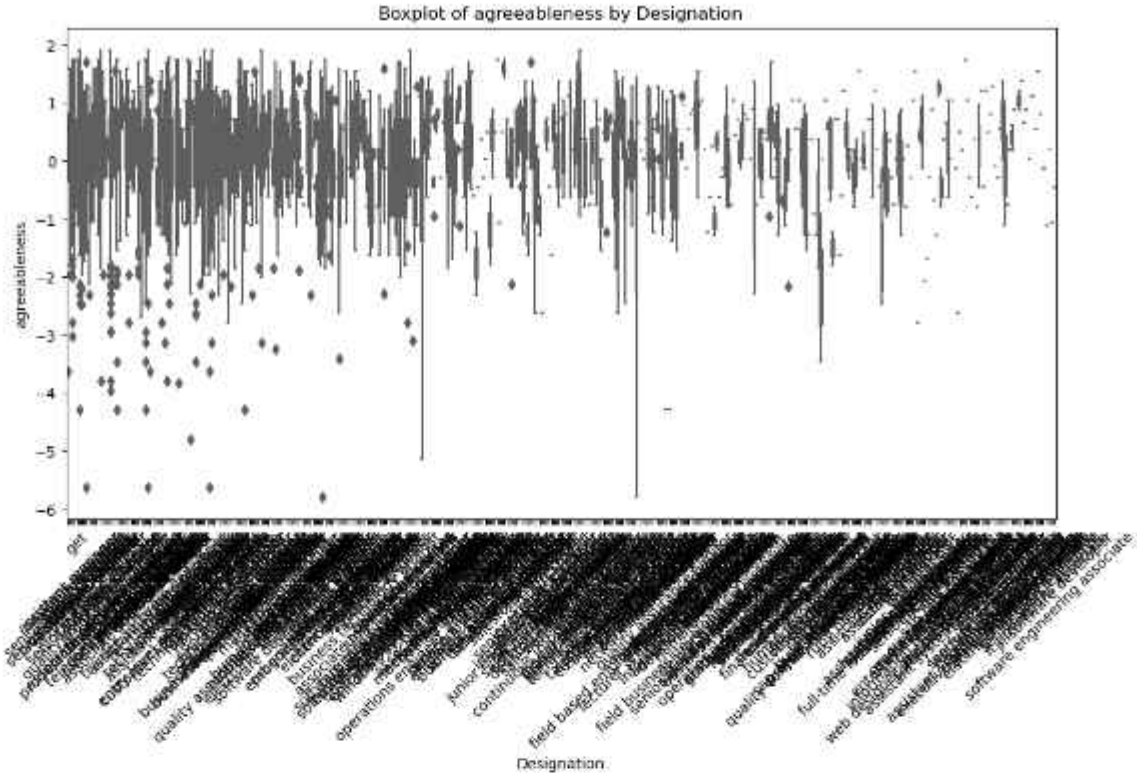

Boxplot of MechanicalEngg by Designation
MechanicalEngg
Designation

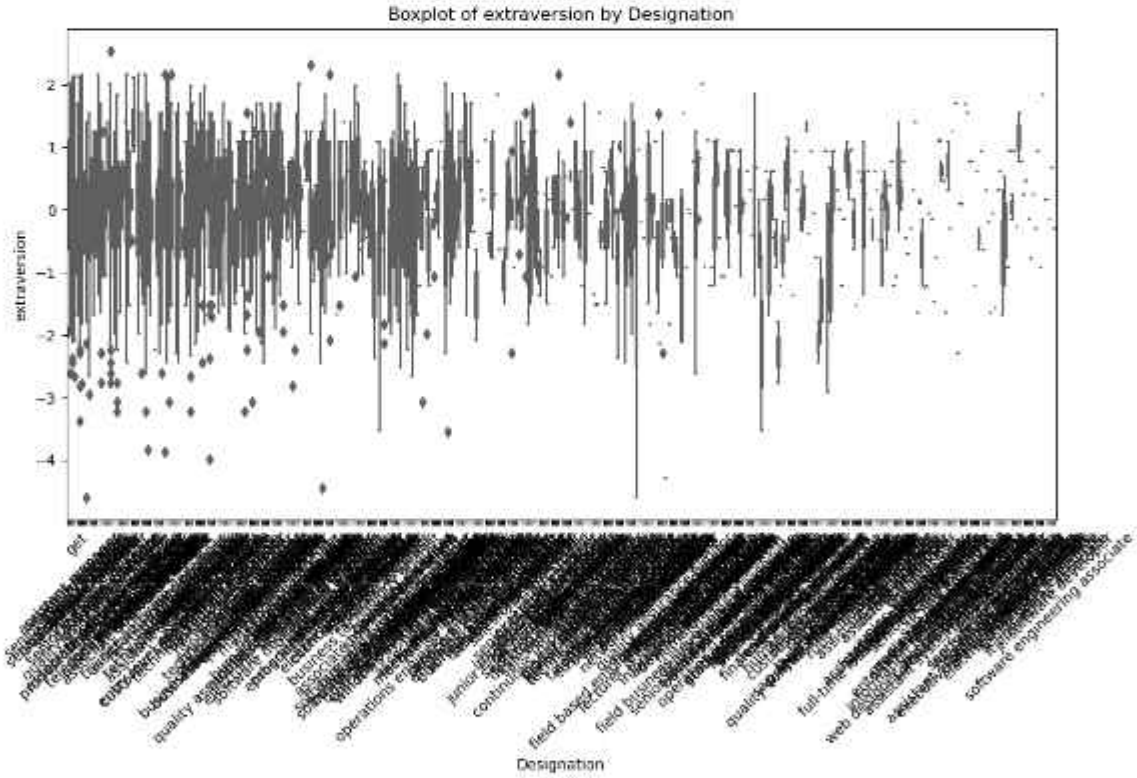

Boxplot of ElectricalEngg by Designation
ElectricalEngg
Designation

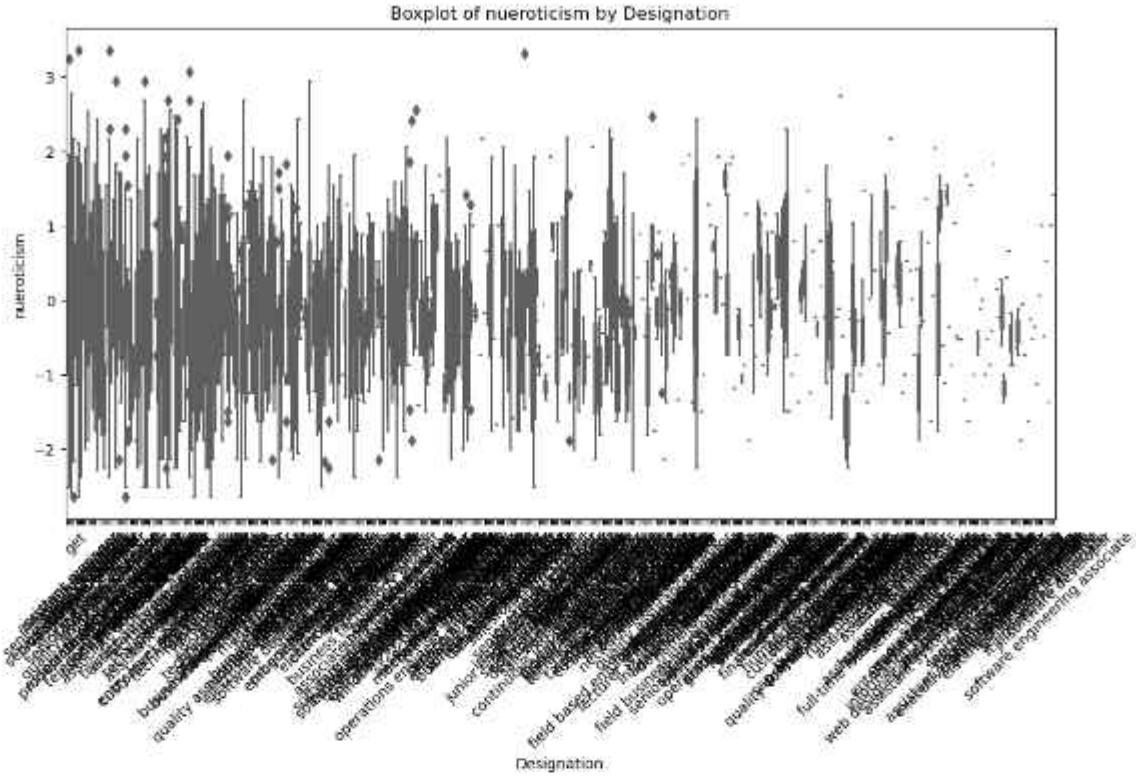

Boxplot of TelecomEngg by Designation
TelecomEngg
Designation

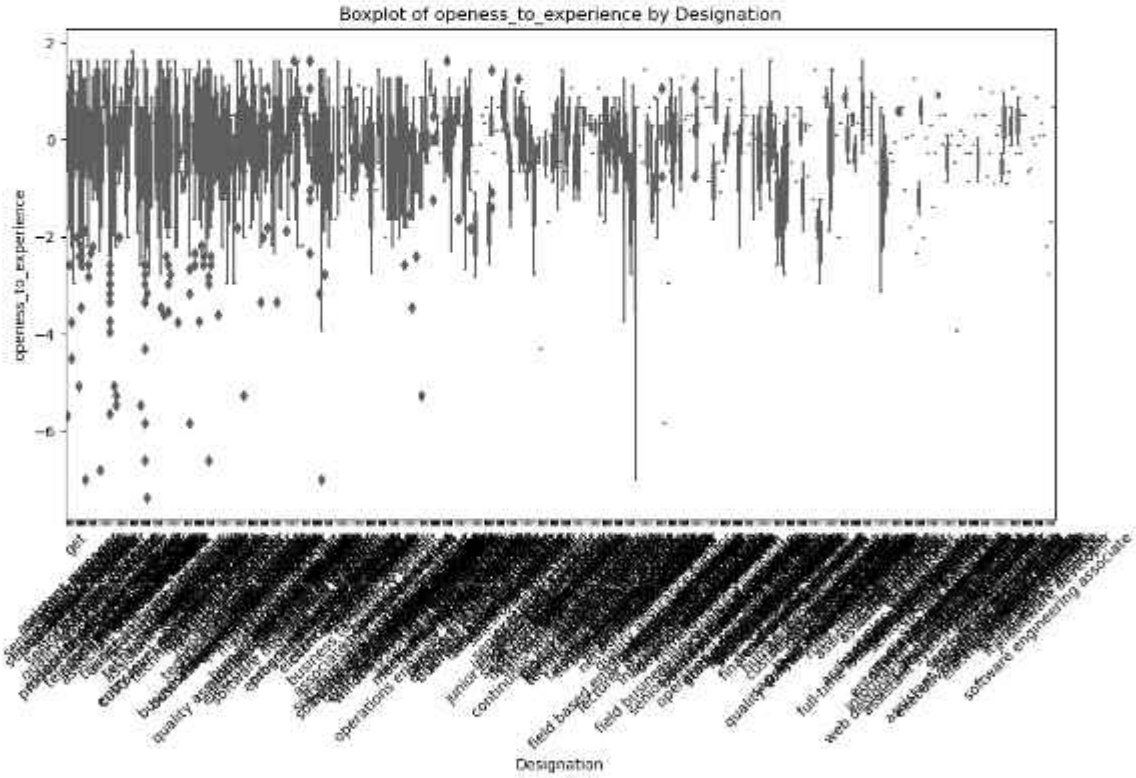

Boxplot of CivilEngg by Designation
CivilEngg
500
400
300
200
100
0
Designation

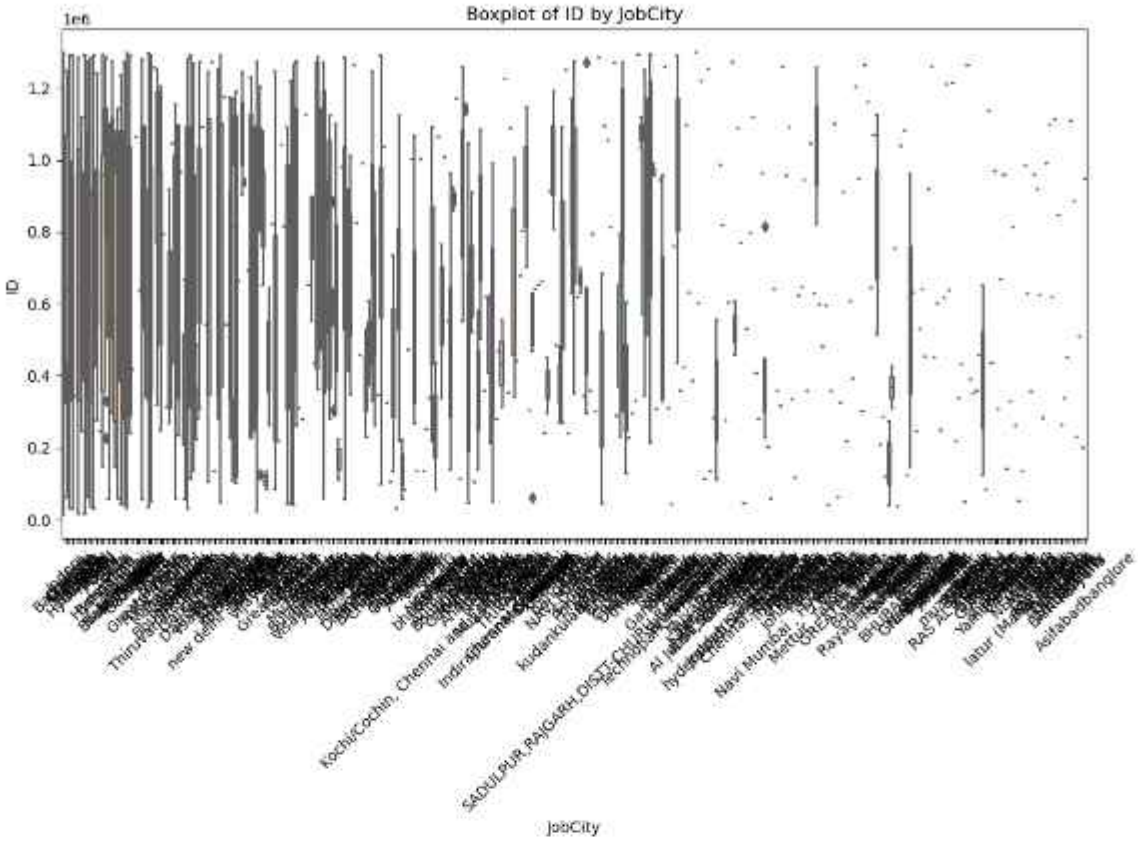

Boxplot of conscientiousness by Designation
conscientiousness
2
1
0
−1
−2
−3
−4
Designation

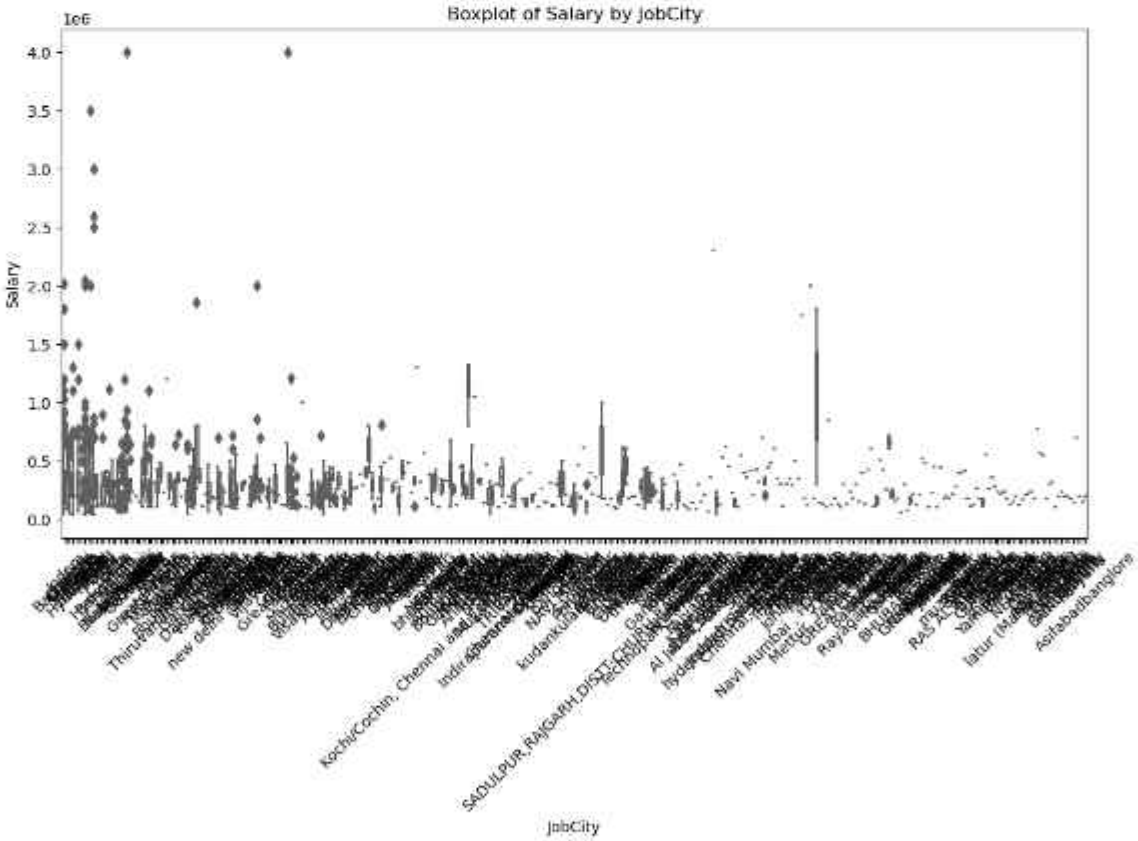

Boxplot of agreeableness by Designation
agreeableness
Designation

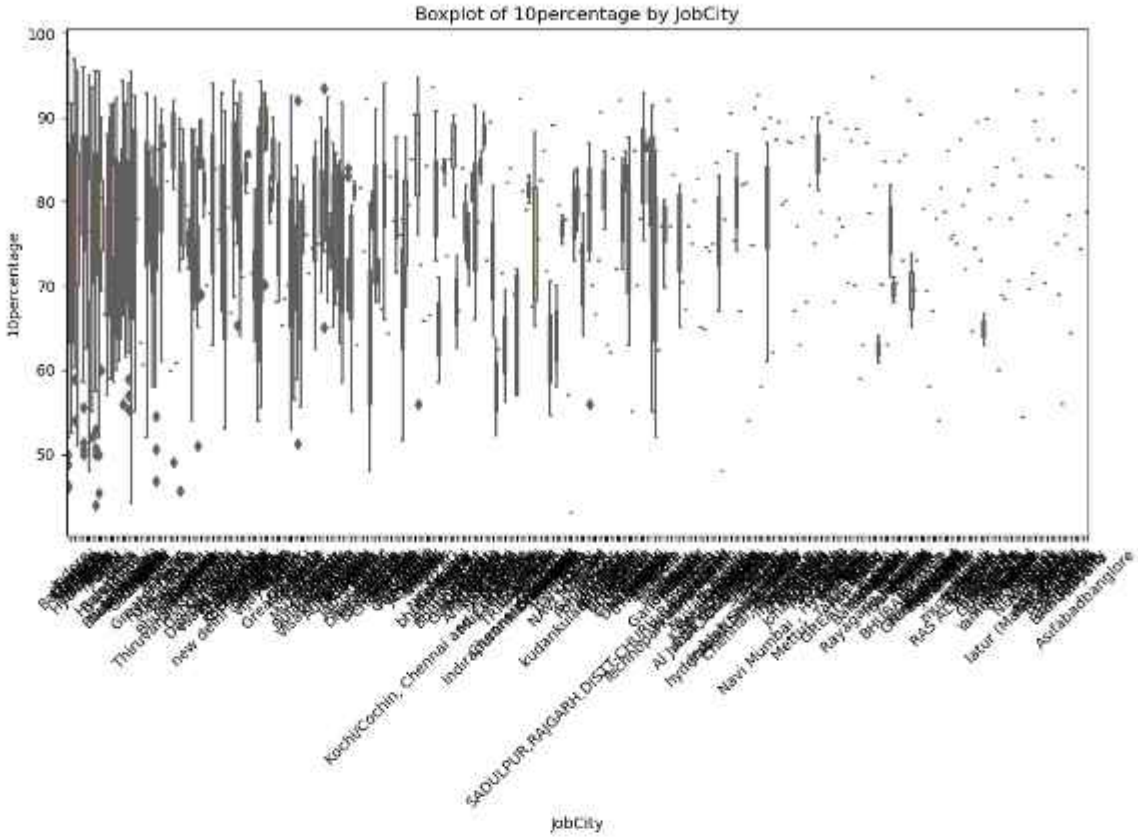

Boxplot of extraversion by Designation
extraversion
Designation

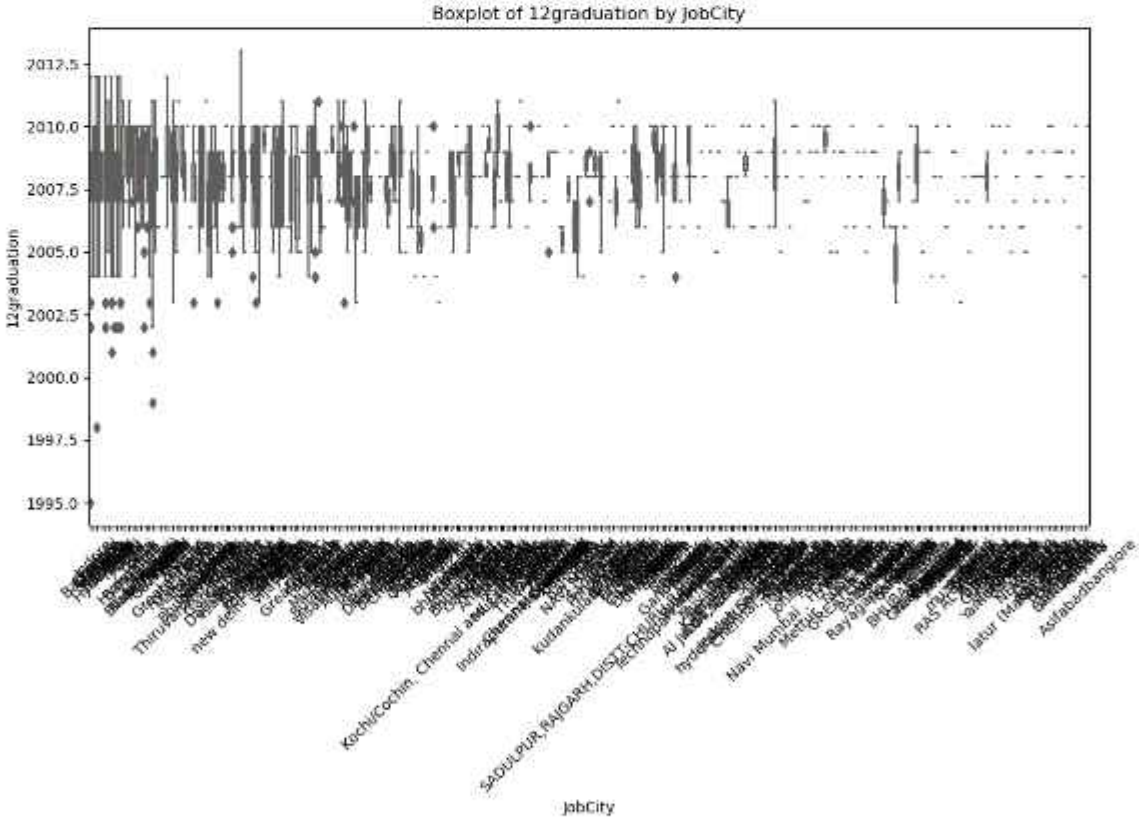

Boxplot of nueroticism by Designation
nueroticism
Designation

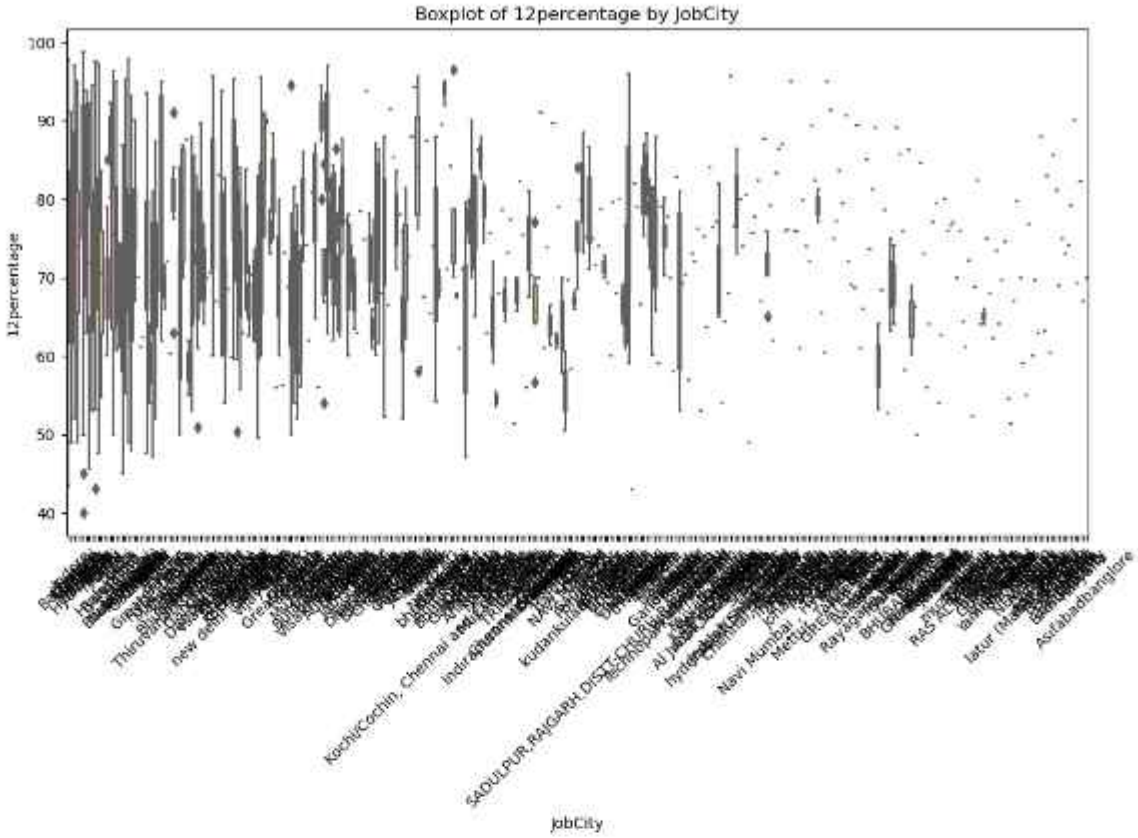

Boxplot of openess_to_experience by Designation
openess_to_experience
Designation

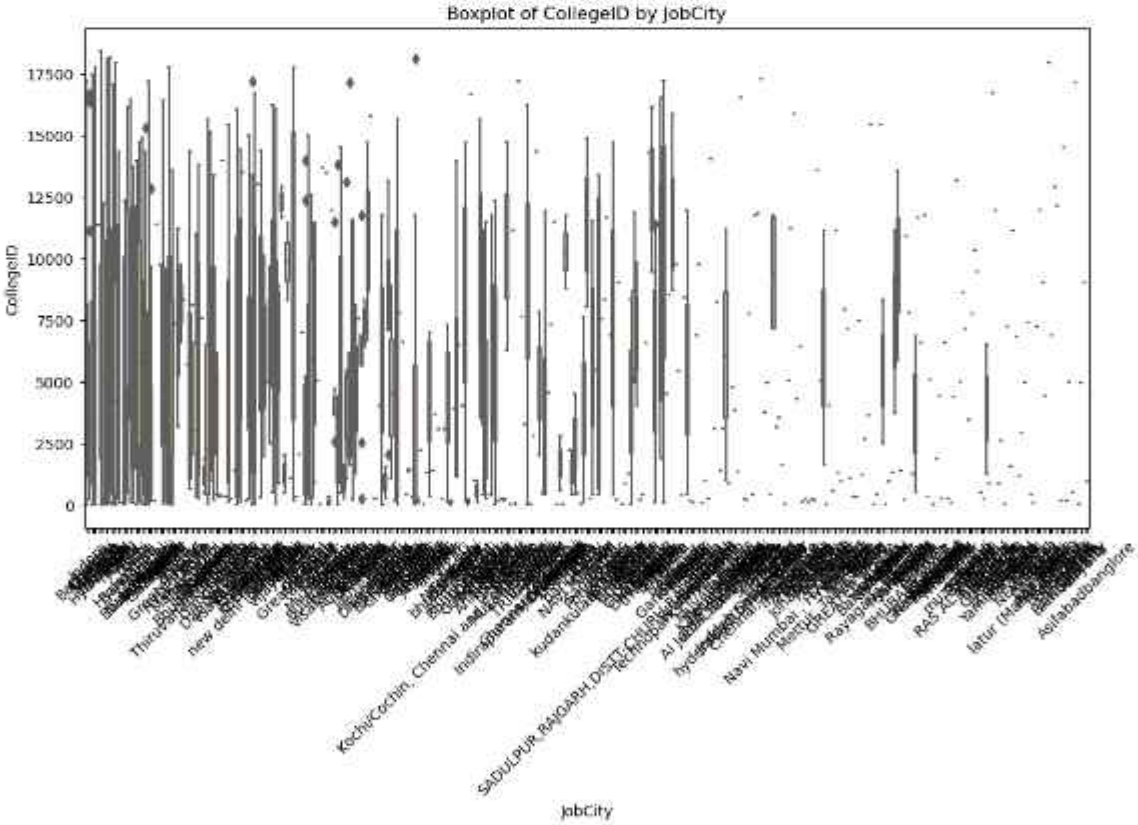

Boxplot of ID by JobCity
1e6
1.2
1.0
0.8
0.6
0.4
0.2
0.0
ID
KochiCochin, Chennai
SADULPUR,RAJGARH,DISTT.CHURU
Navi Mumbai
Asifabadbangalore
JobCity

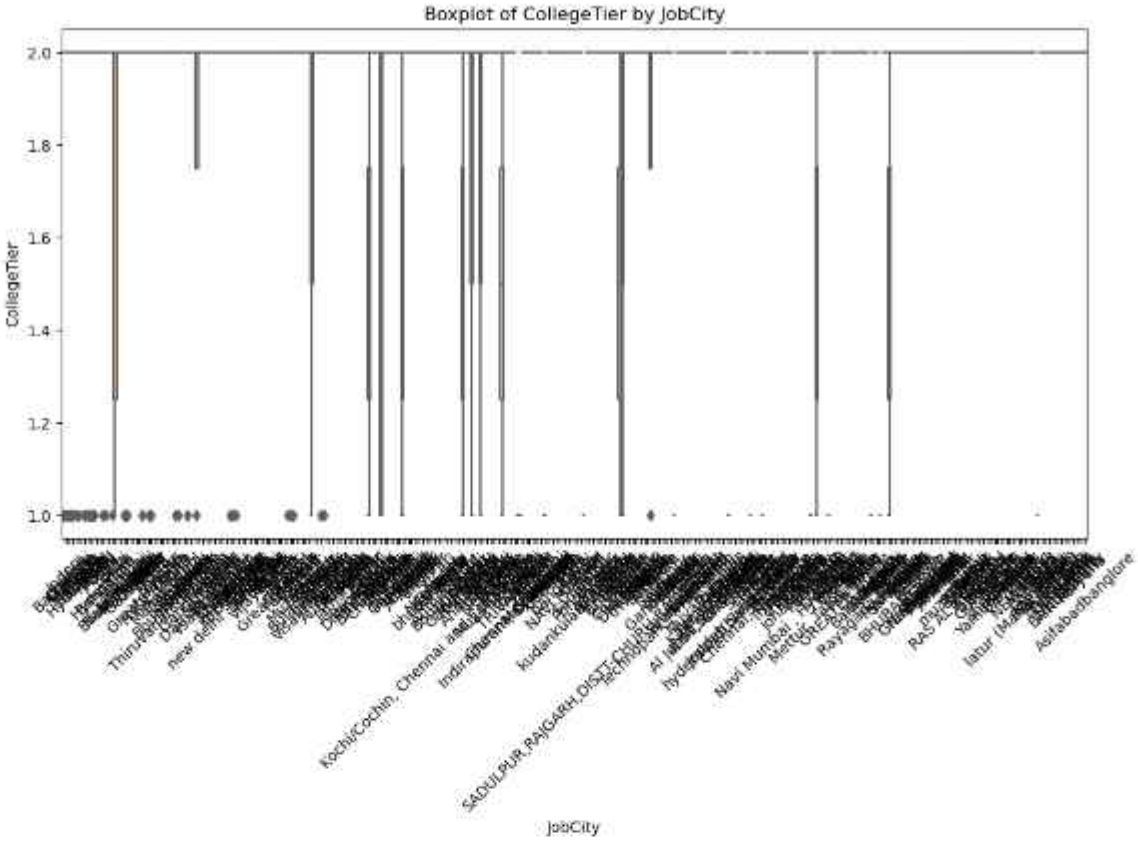

Boxplot of Salary by JobCity
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
KochiCochin, Chennai
SADULPUR,RAJGARH,DISTT.CHURU
Navi Mumbai
Asifabadbangalore
JobCity

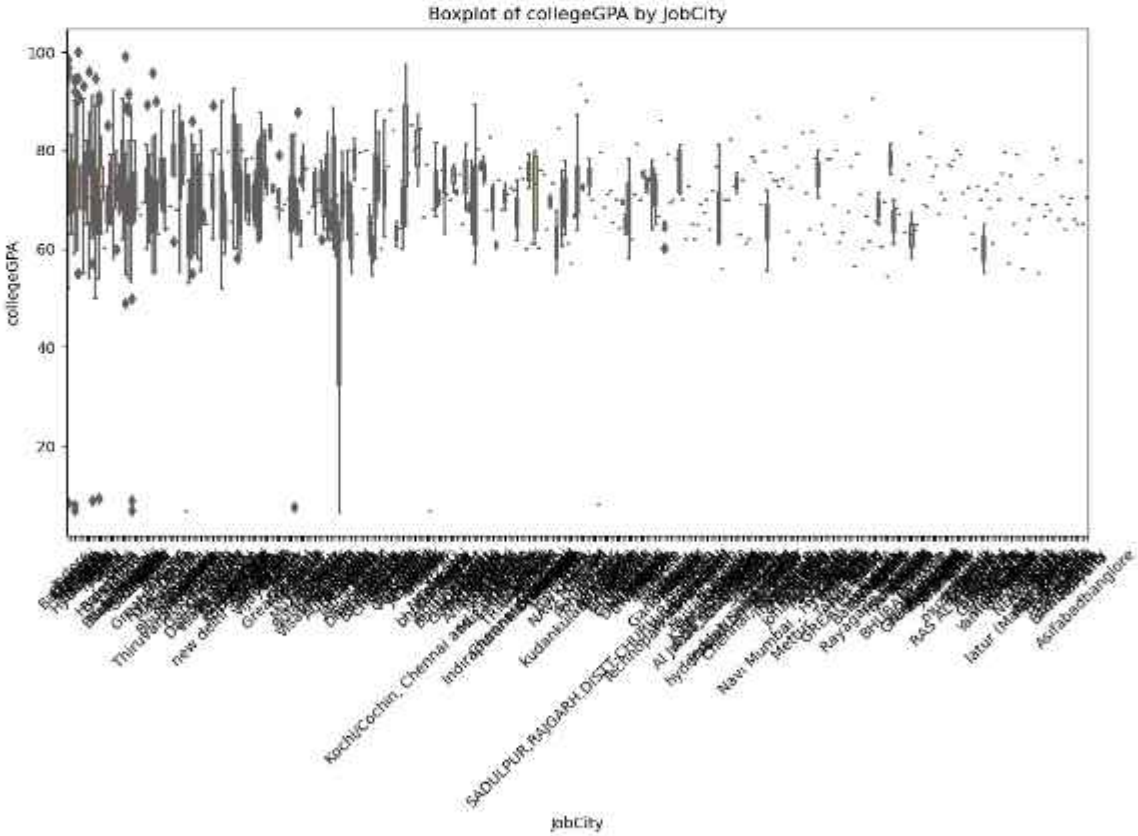

Boxplot of 10percentage by JobCity
10percentage
100
90
80
70
60
50
jobCity

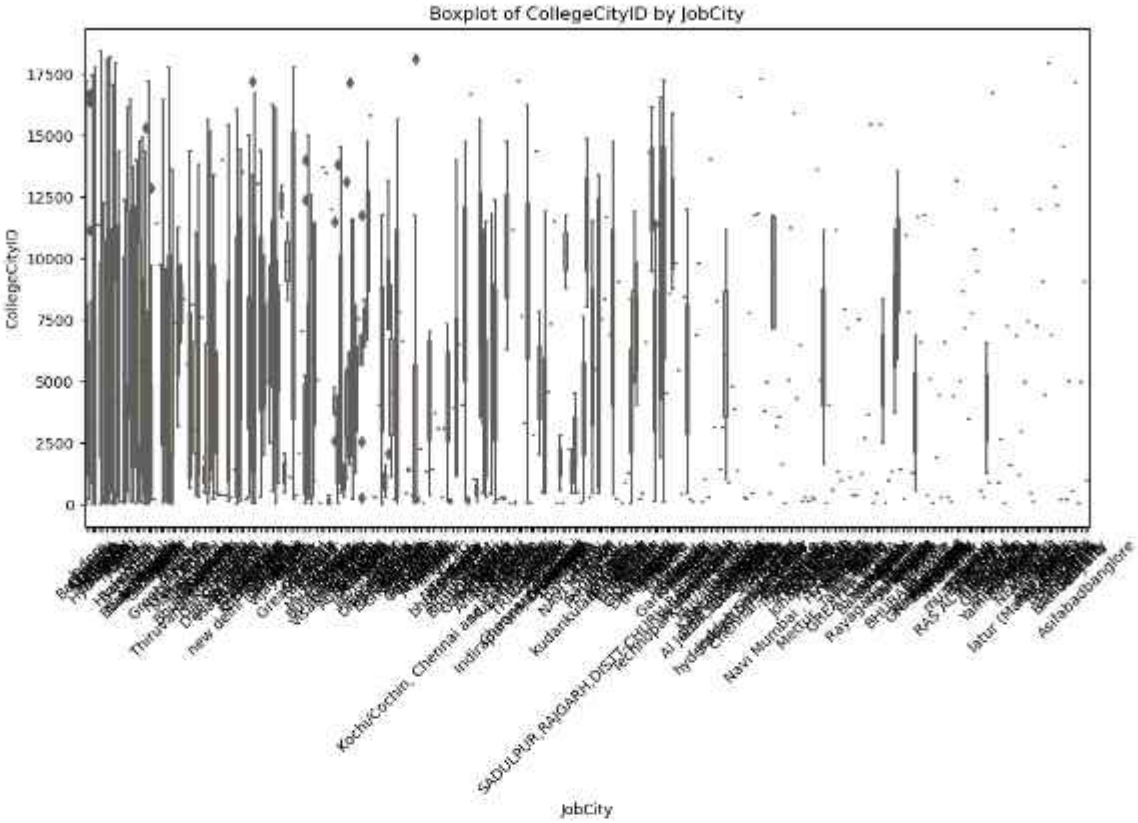

Boxplot of 12graduation by JobCity
12graduation
2012.5
2010.0
2007.5
2005.0
2002.5
2000.0
1997.5
1995.0
jobCity

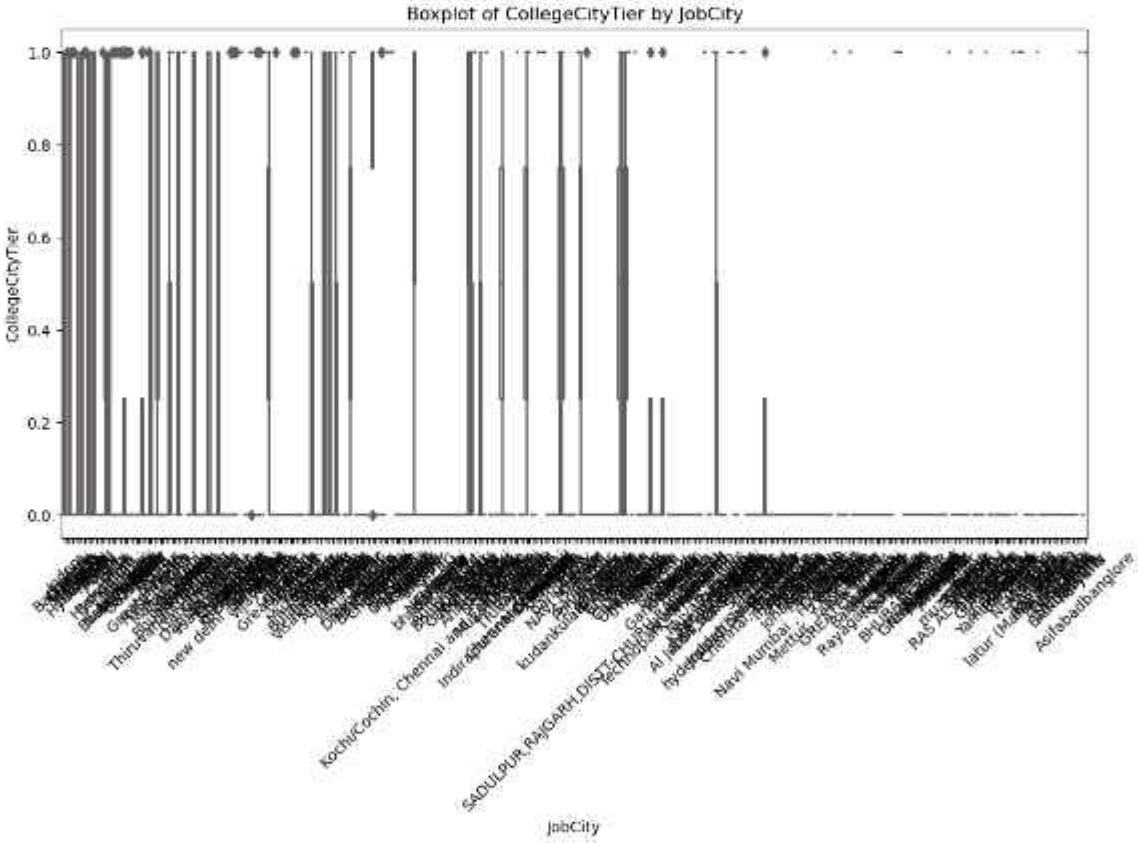

Boxplot of 12percentage by JobCity
12percentage
100
90
80
70
60
50
40
JobCity

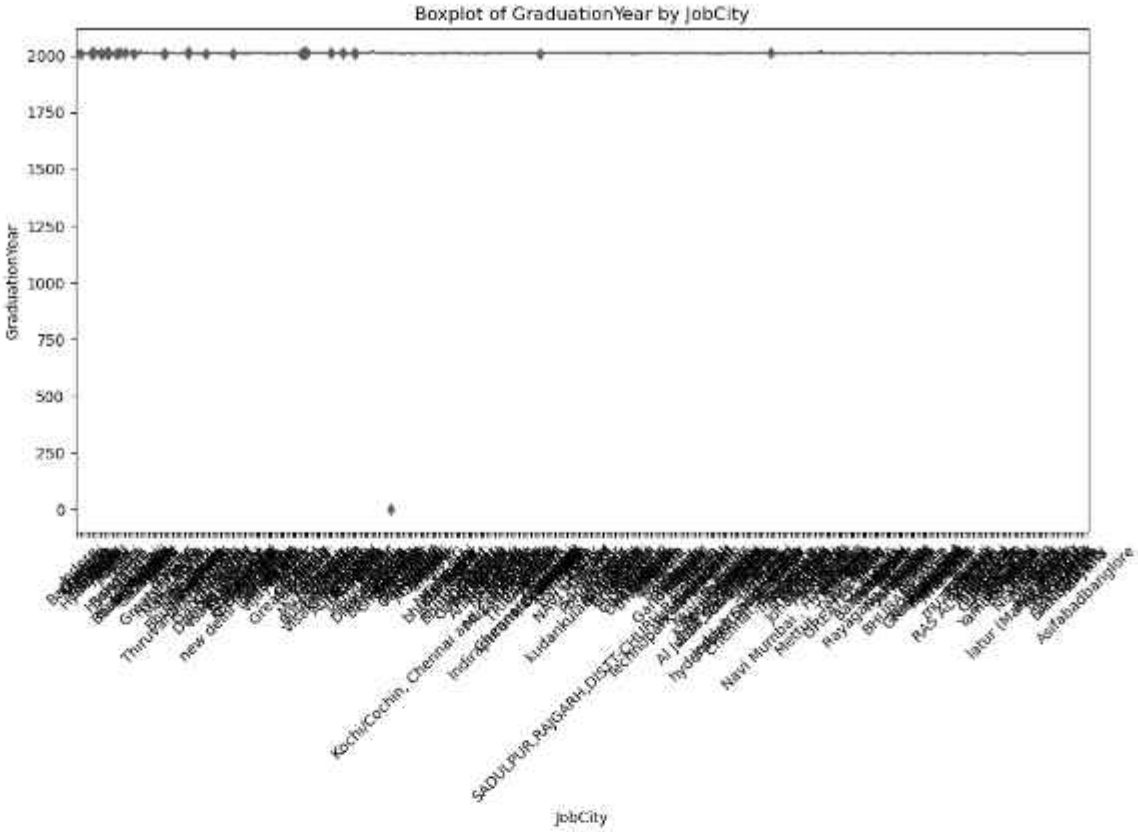

Boxplot of CollegeID by JobCity
CollegeID
17500
15000
12500
10000
7500
5000
2500
0
JobCity

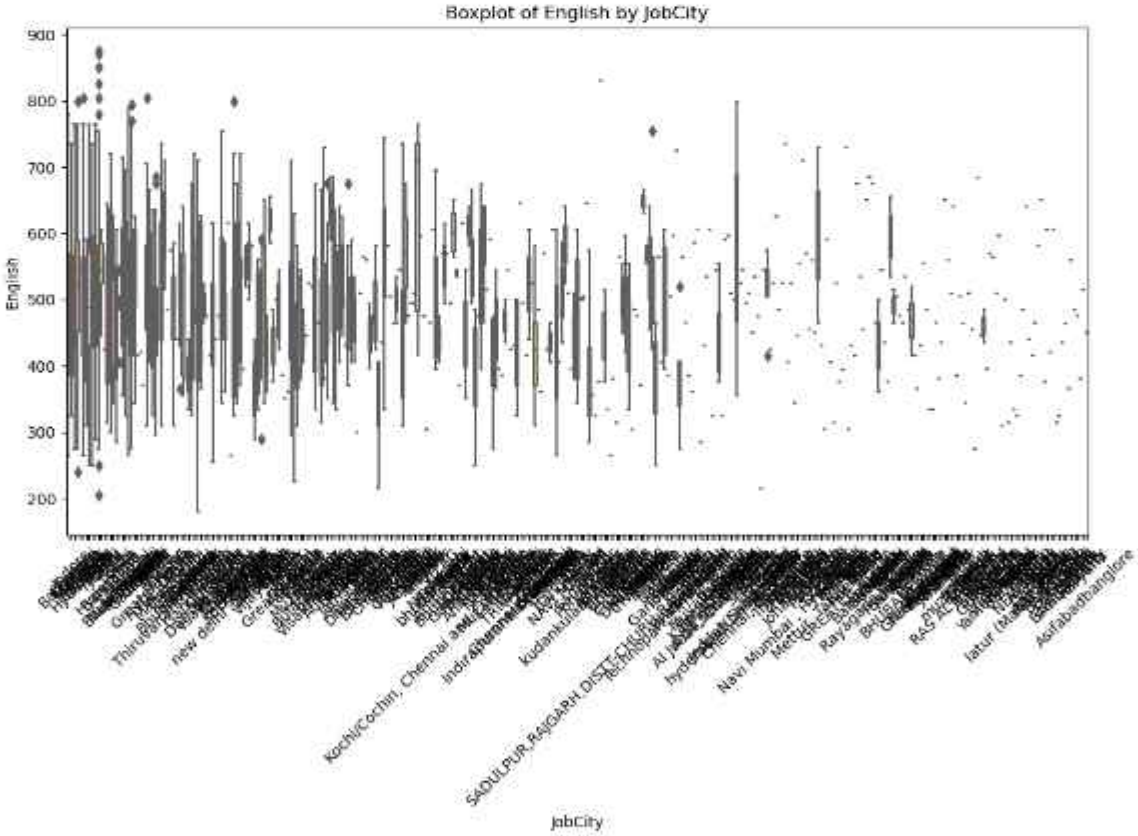

Boxplot of CollegeTier by JobCity
CollegeTier
2.0
1.8
1.6
1.4
1.2
1.0
JobCity

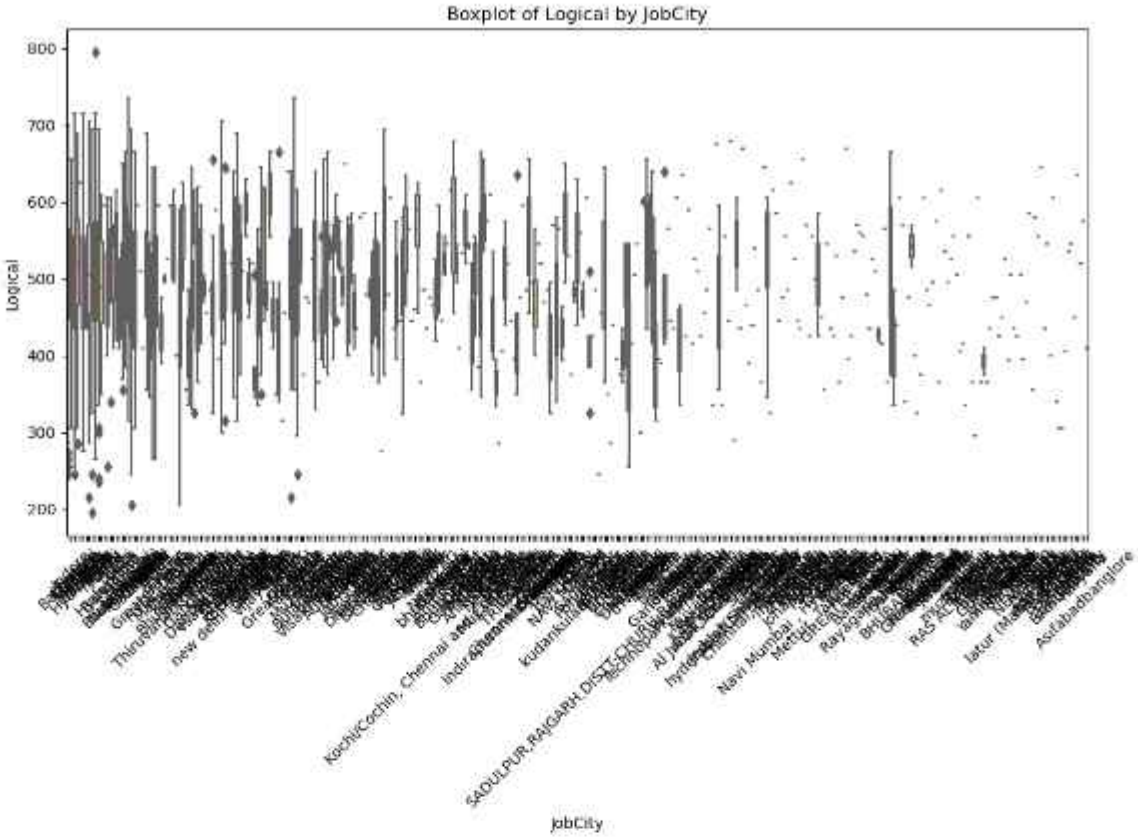

Boxplot of collegeGPA by JobCity
collegeGPA
100
80
60
40
20
JobCity

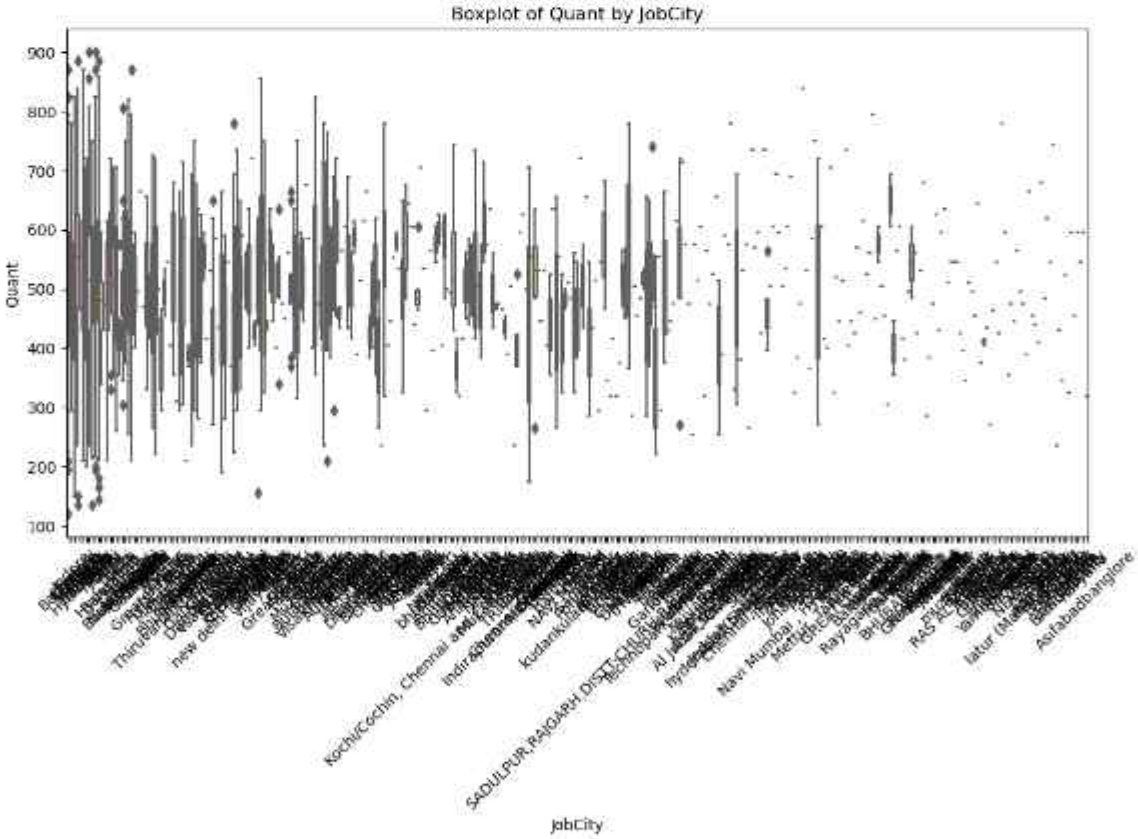

Boxplot of CollegeCityID by JobCity
CollegeCityID
17500
15000
12500
10000
7500
5000
2500
0
JobCity

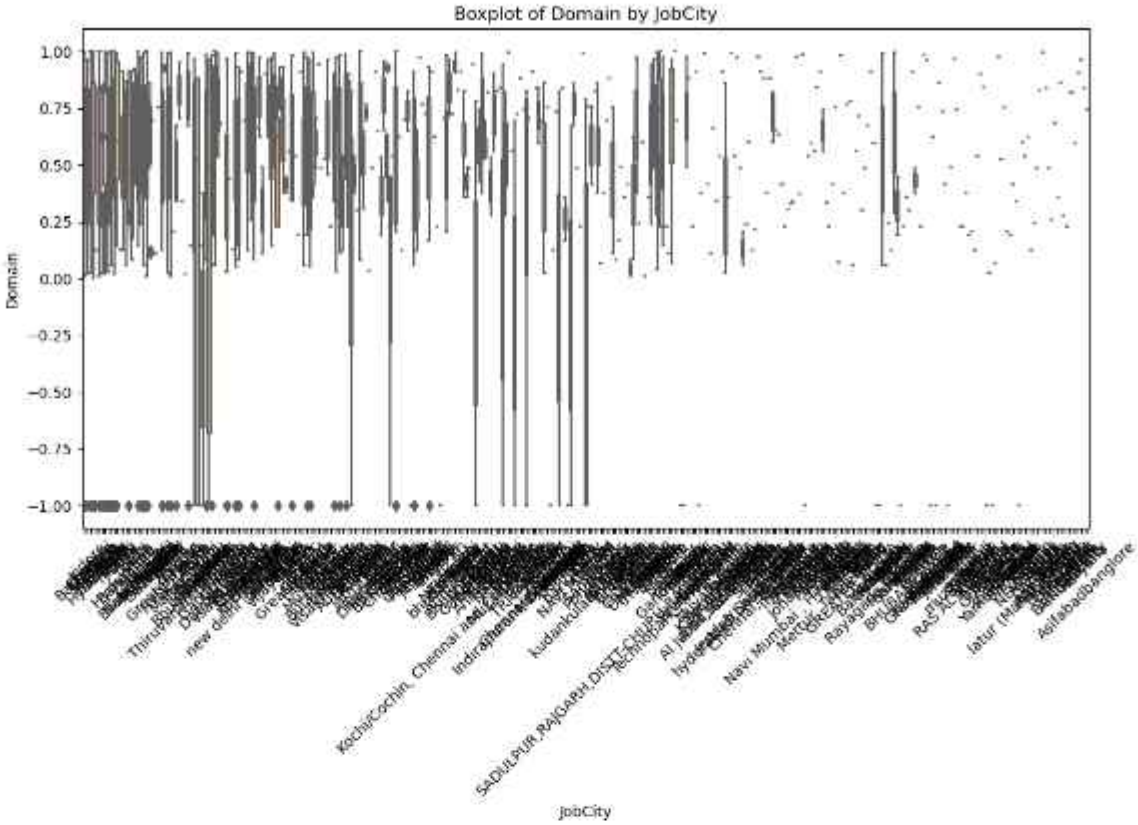

Boxplot of CollegeCityTier by JobCity
CollegeCityTier
1.0
0.8
0.6
0.4
0.2
0.0
JobCity

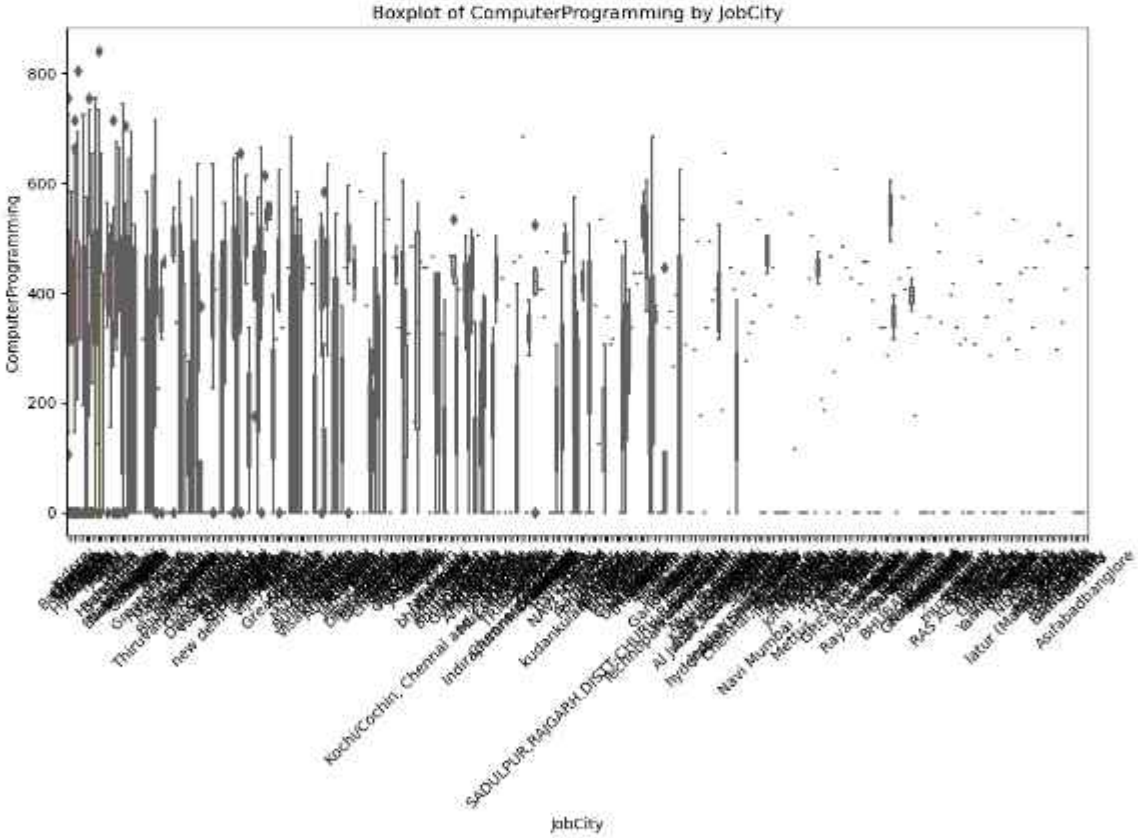

Boxplot of GraduationYear by JobCity
GraduationYear
2000
1750
1500
1250
1000
750
500
250
0
JobCity

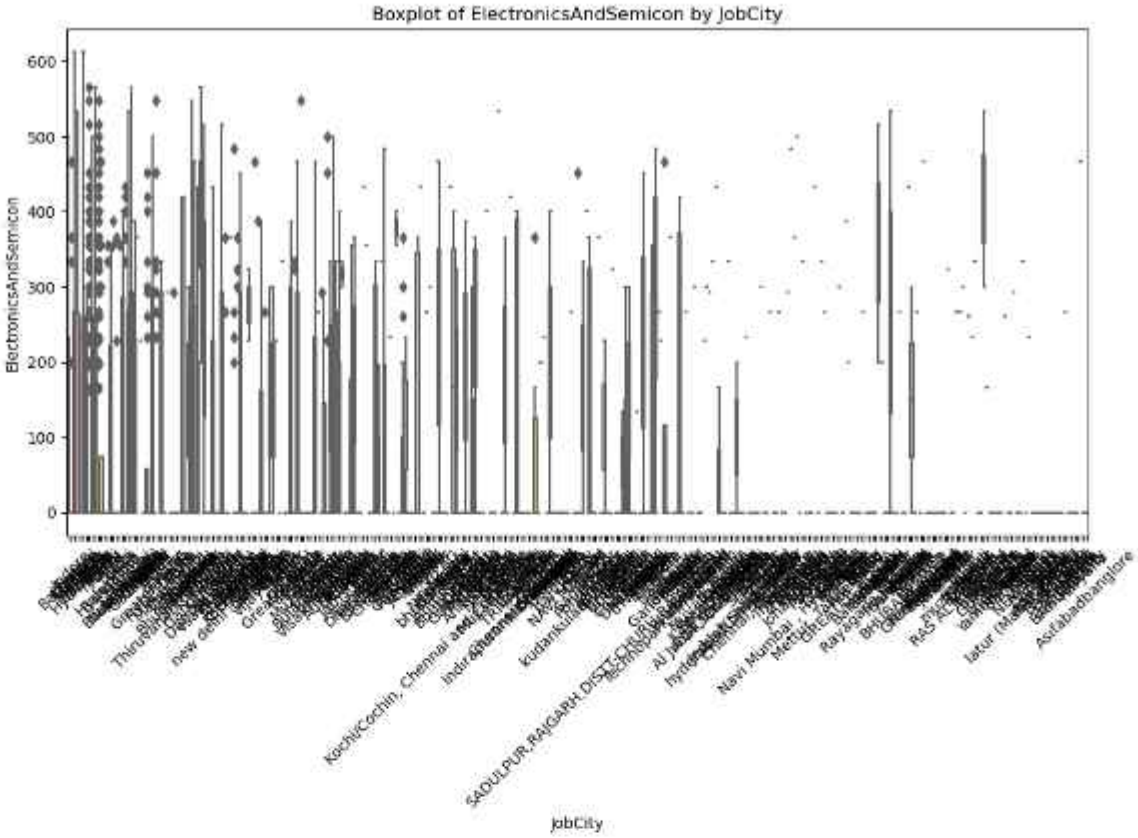

Boxplot of English by JobCity
English
900
800
700
600
500
400
300
200
JobCity

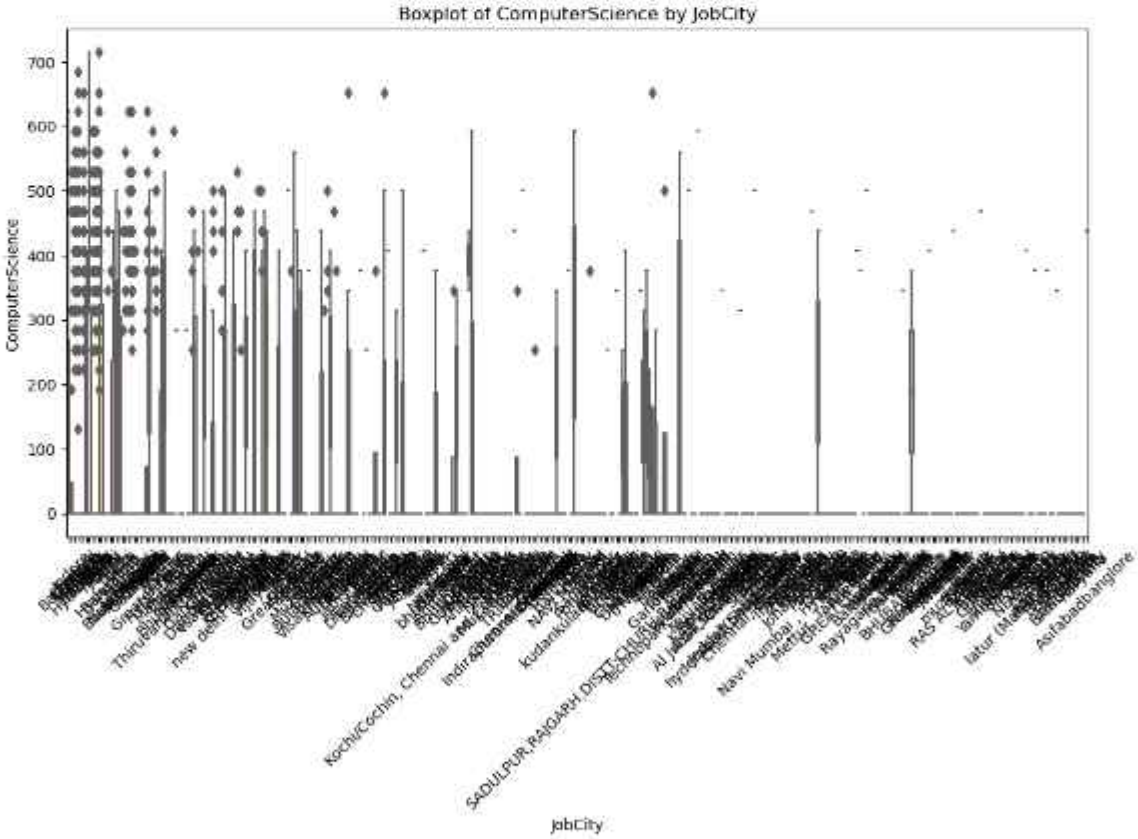

Boxplot of Logical by JobCity
Logical
800
700
600
500
400
300
200
JobCity

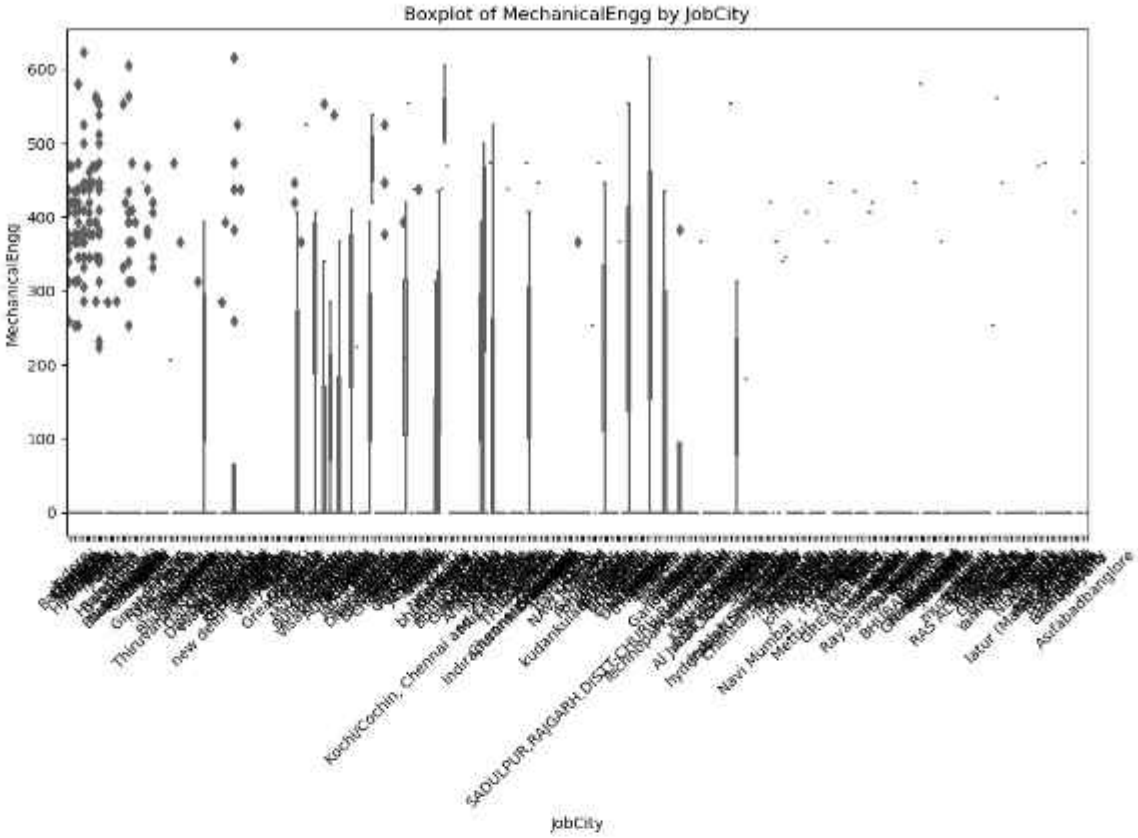

Boxplot of Quant by JobCity
Quant
900
800
700
600
500
400
300
200
100
JobCity

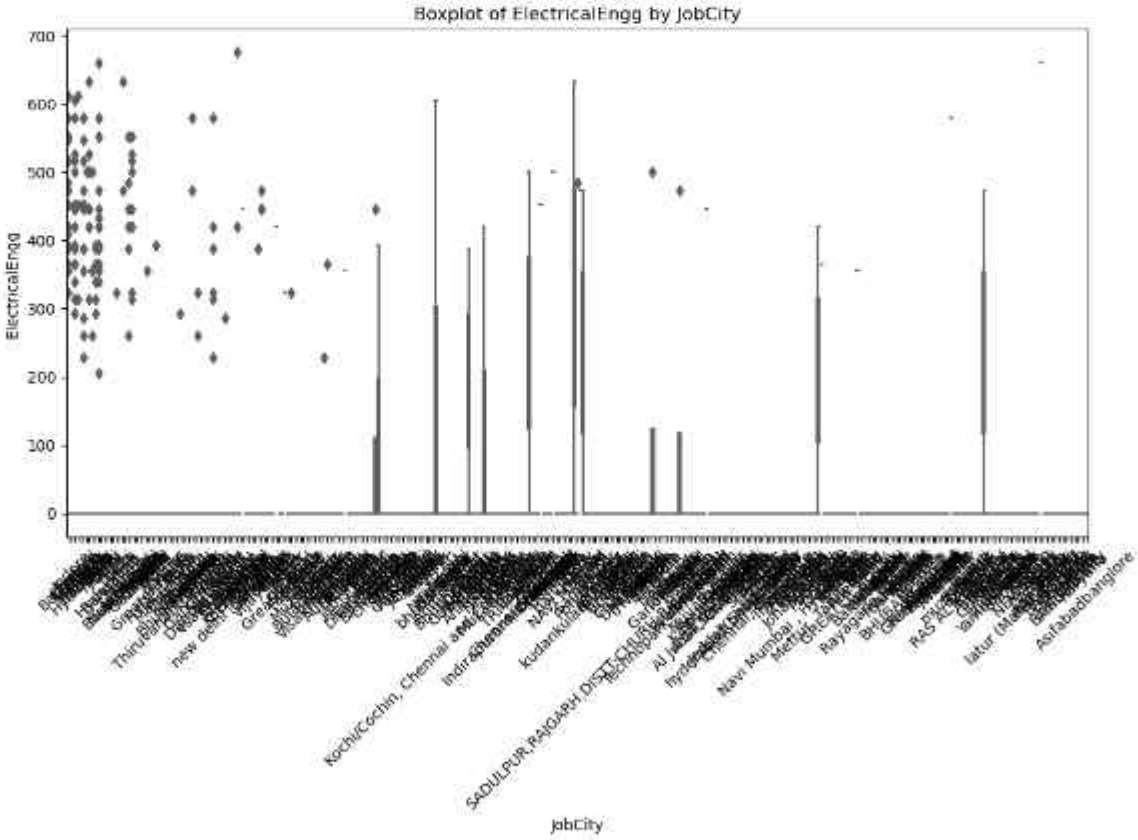

Boxplot of Domain by JobCity
Domain
1.00
0.75
0.50
0.25
0.00
−0.25
−0.50
−0.75
−1.00
JobCity

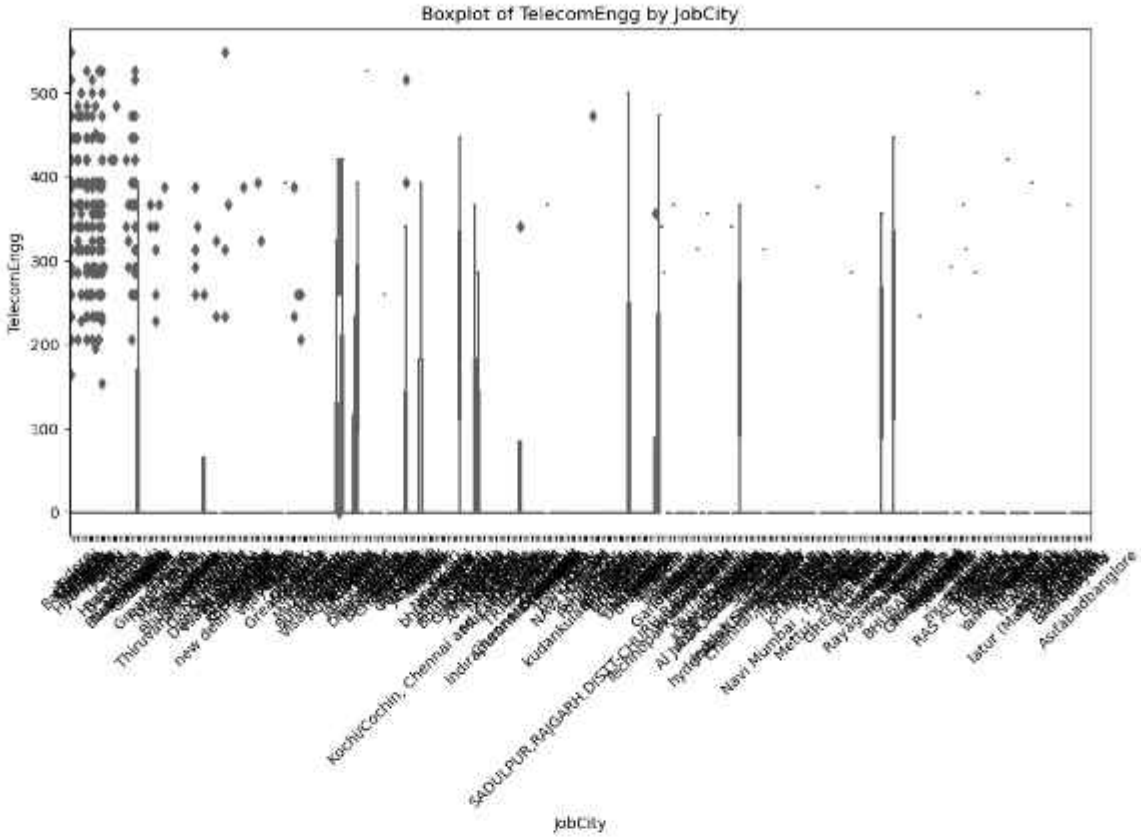

Boxplot of ComputerProgramming by JobCity
ComputerProgramming
800
600
400
200
0
JobCity

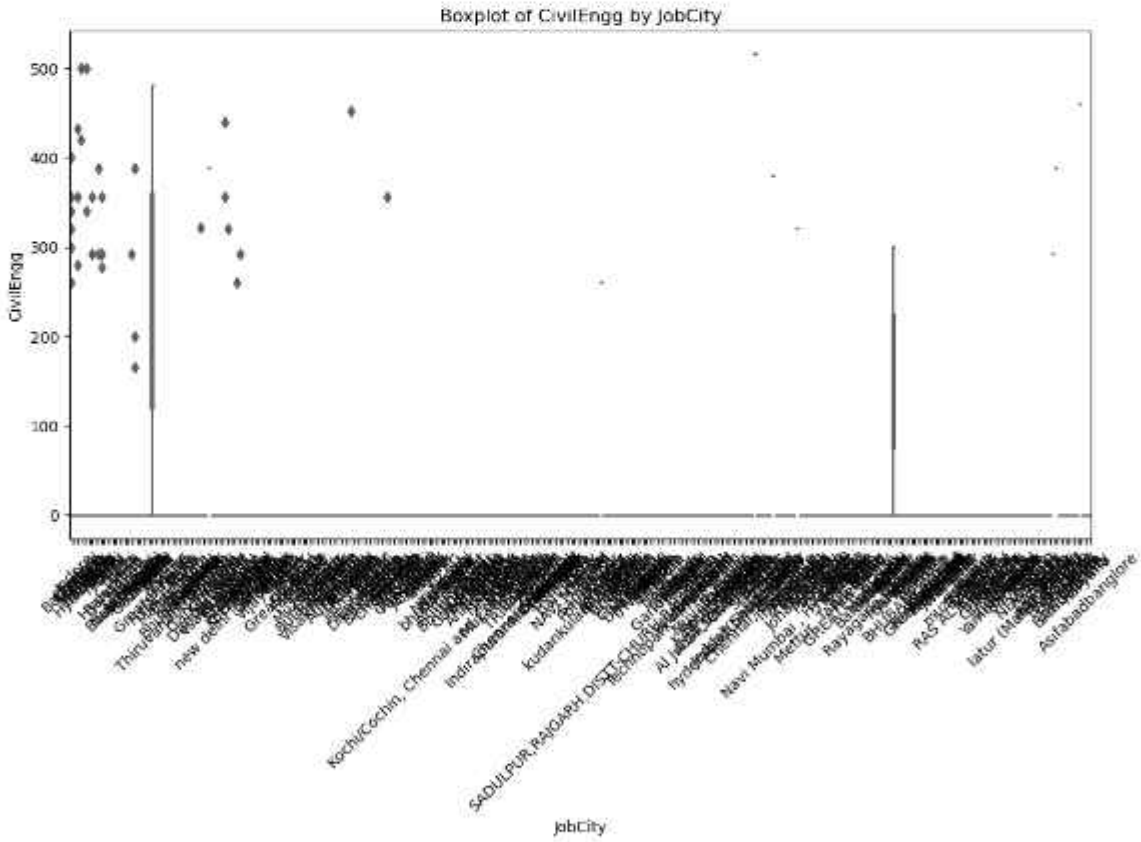

Boxplot of ElectronicsAndSemicon by JobCity
ElectronicsAndSemicon
JobCity

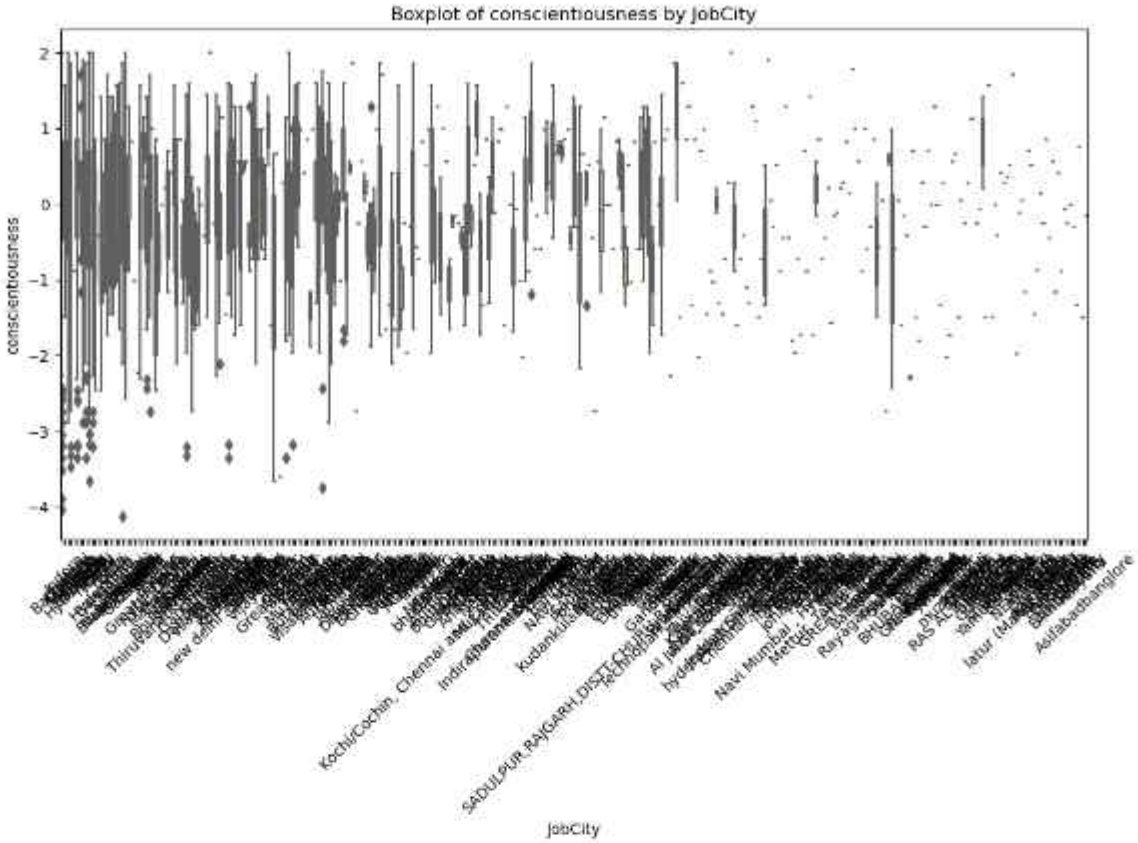

Boxplot of ComputerScience by JobCity
ComputerScience
JobCity

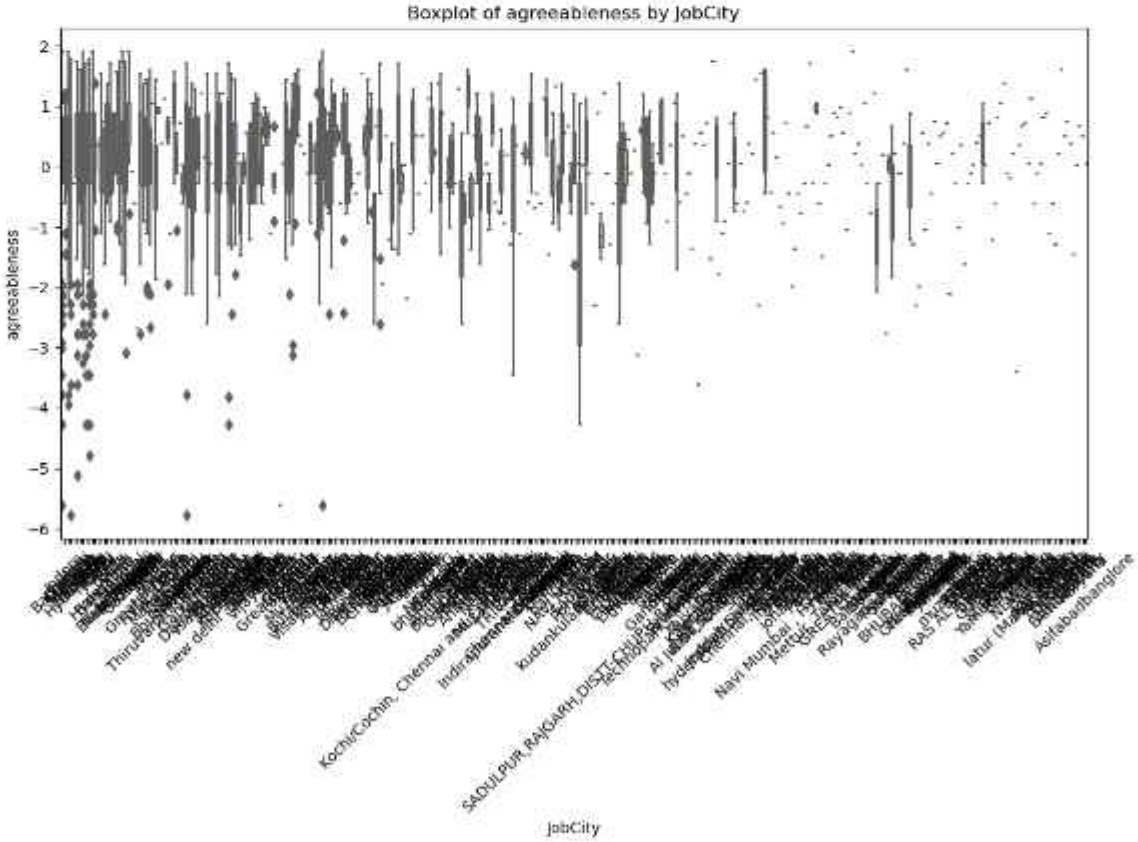

Boxplot of MechanicalEngg by JobCity
MechanicalEngg
0
100
200
300
400
500
600
JobCity

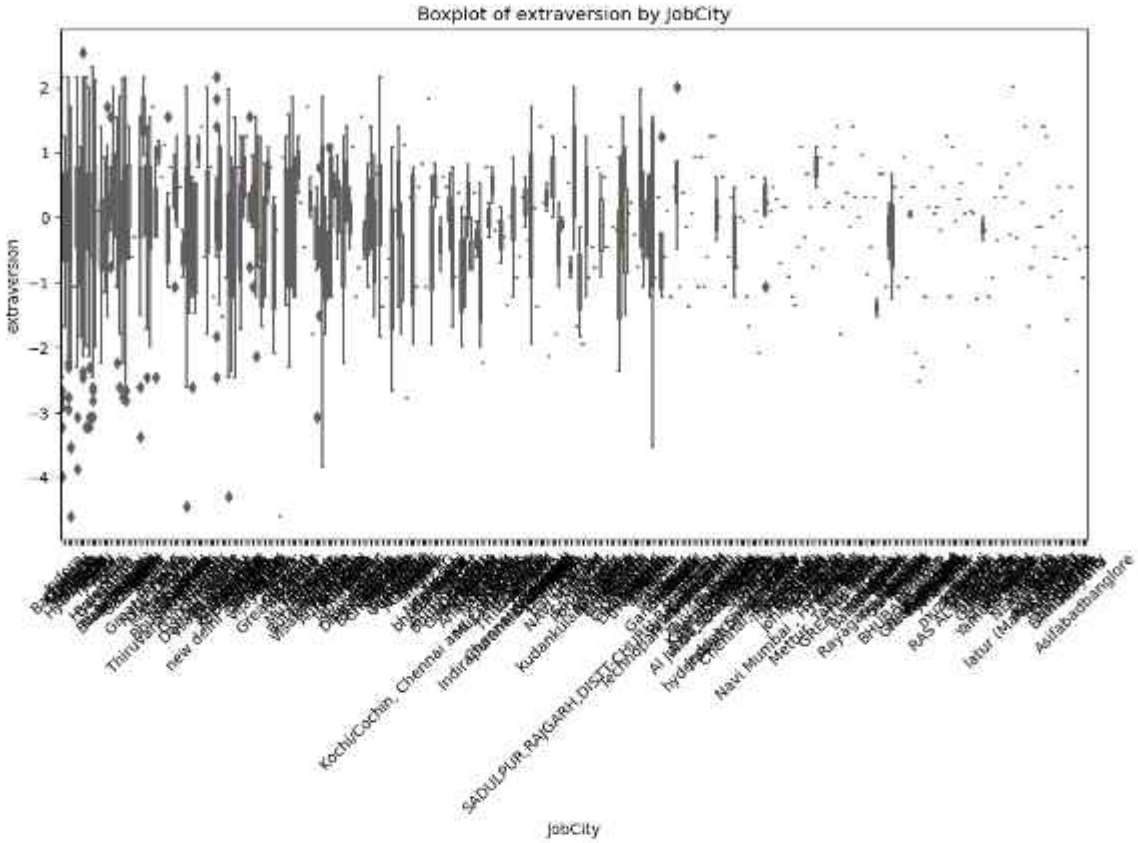

Boxplot of ElectricalEngg by JobCity
ElectricalEngg
0
100
200
300
400
500
600
700
JobCity

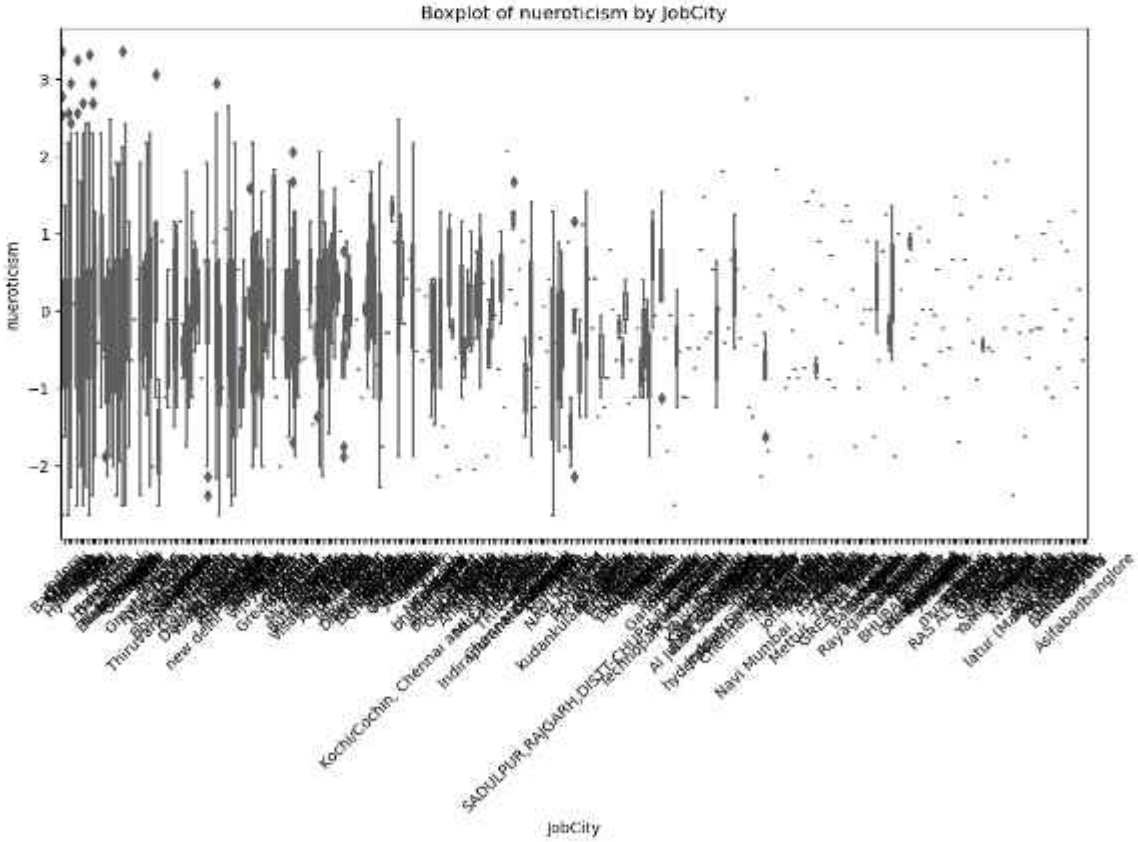

Boxplot of TelecomEngg by JobCity
TelecomEngg
500
400
300
200
100
0
Kochi/Cochin, Chennai
SADULPUR,RAJGARH DIST-CHURU
Navi Mumbai
Asifabadbanglore
JobCity

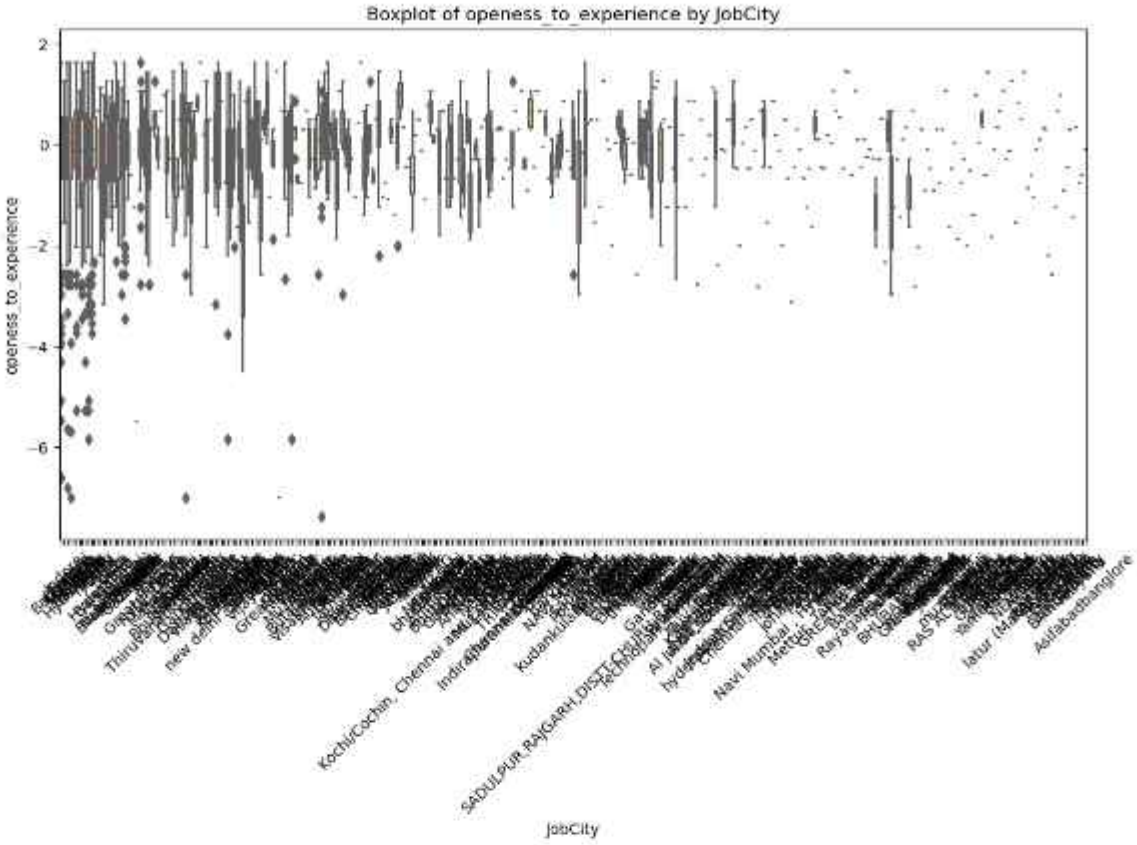

Boxplot of CivilEngg by JobCity
CivilEngg
500
400
300
200
100
0
Kochi/Cochin, Chennai
SADULPUR,RAJGARH DIST-CHURU
Navi Mumbai
Asifabadbanglore
JobCity

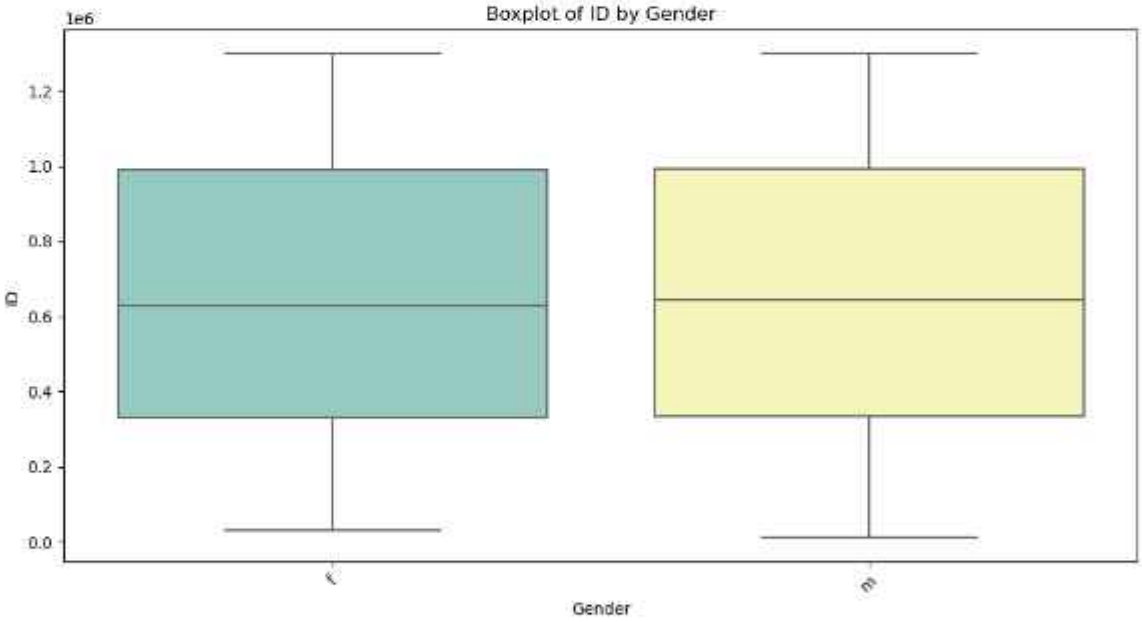

Boxplot of conscientiousness by JobCity
conscientiousness
2
1
0
−1
−2
−3
−4
JobCity

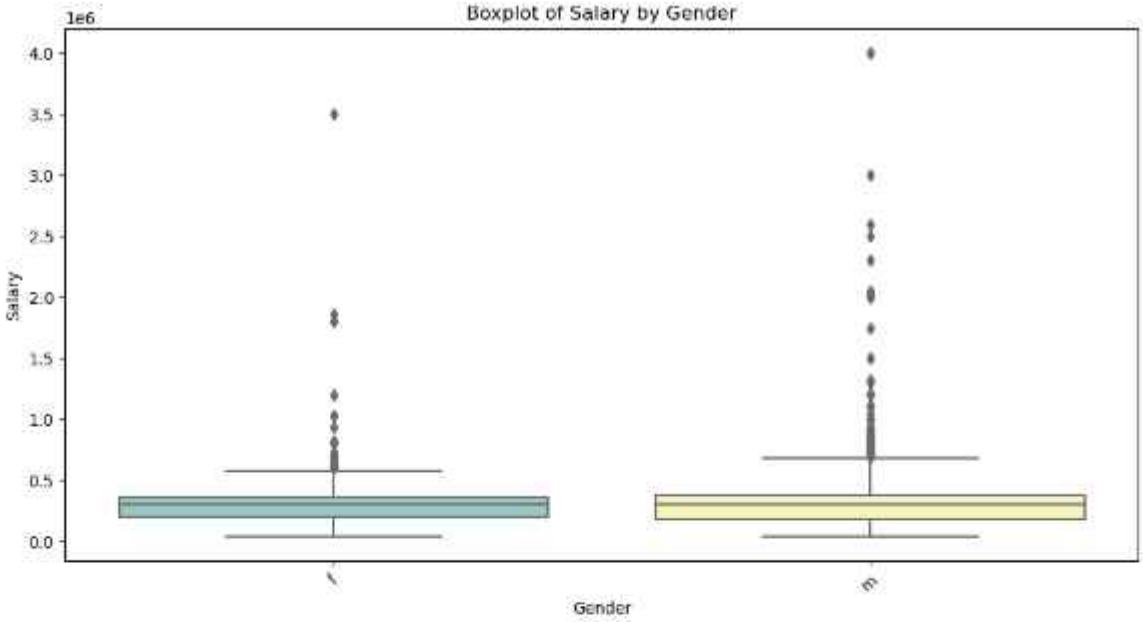

Boxplot of agreeableness by JobCity
agreeableness
2
1
0
−1
−2
−3
−4
−5
−6
JobCity

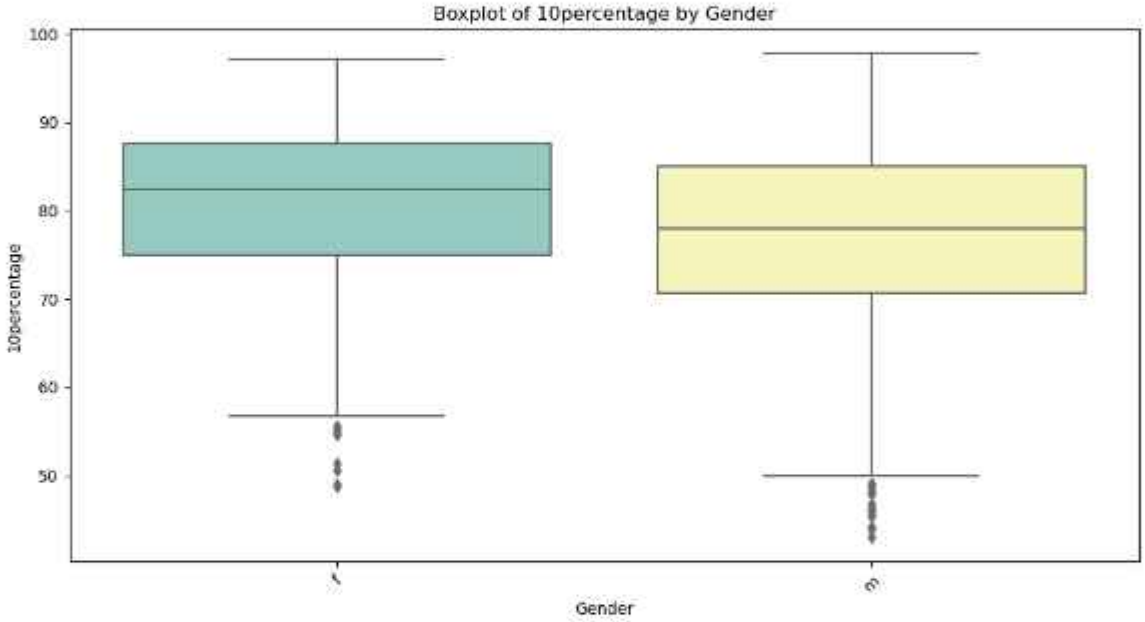

Boxplot of extraversion by JobCity
extraversion
JobCity

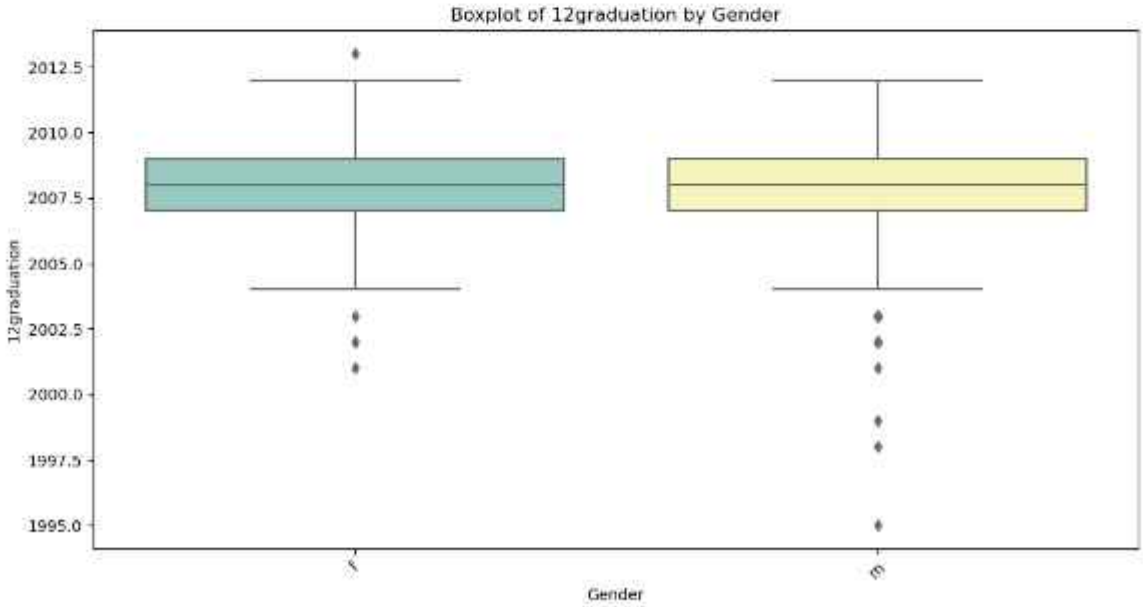

Boxplot of nueroticism by JobCity
nueroticism
JobCity

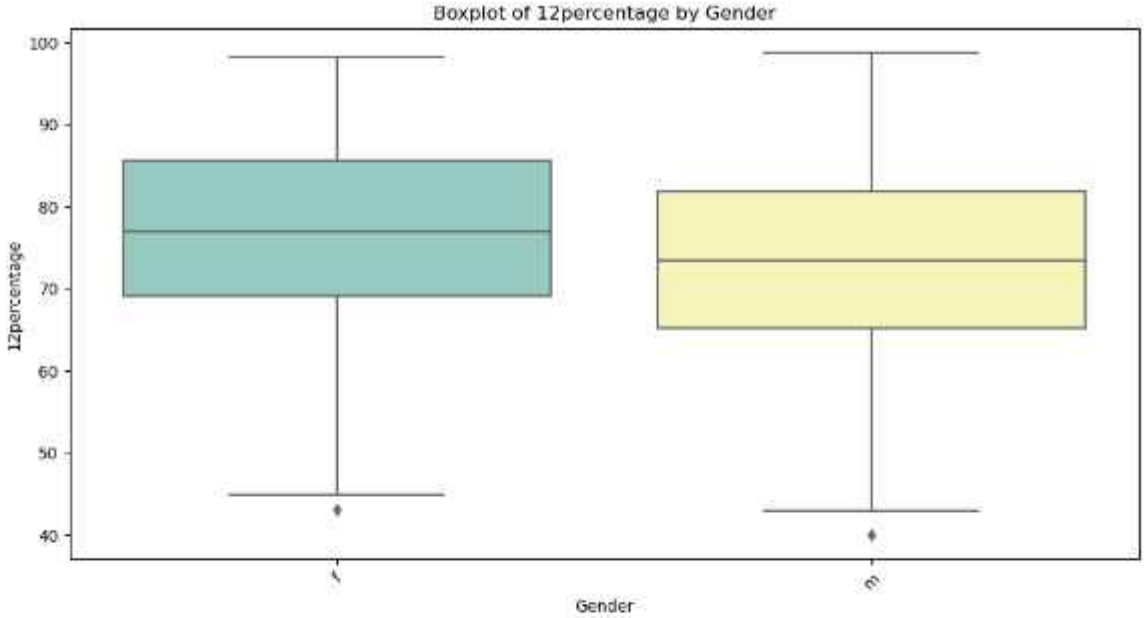

Boxplot of openess_to_experience by JobCity
openess_to_experience
JobCity

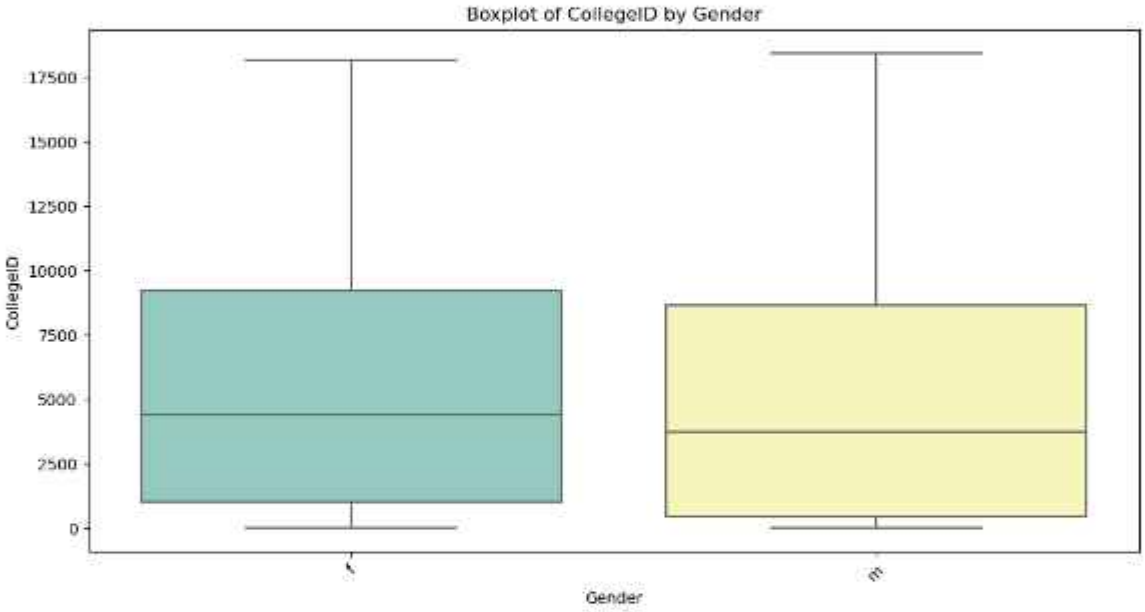

Boxplot of ID by Gender
1e6
ID
Gender
f
m

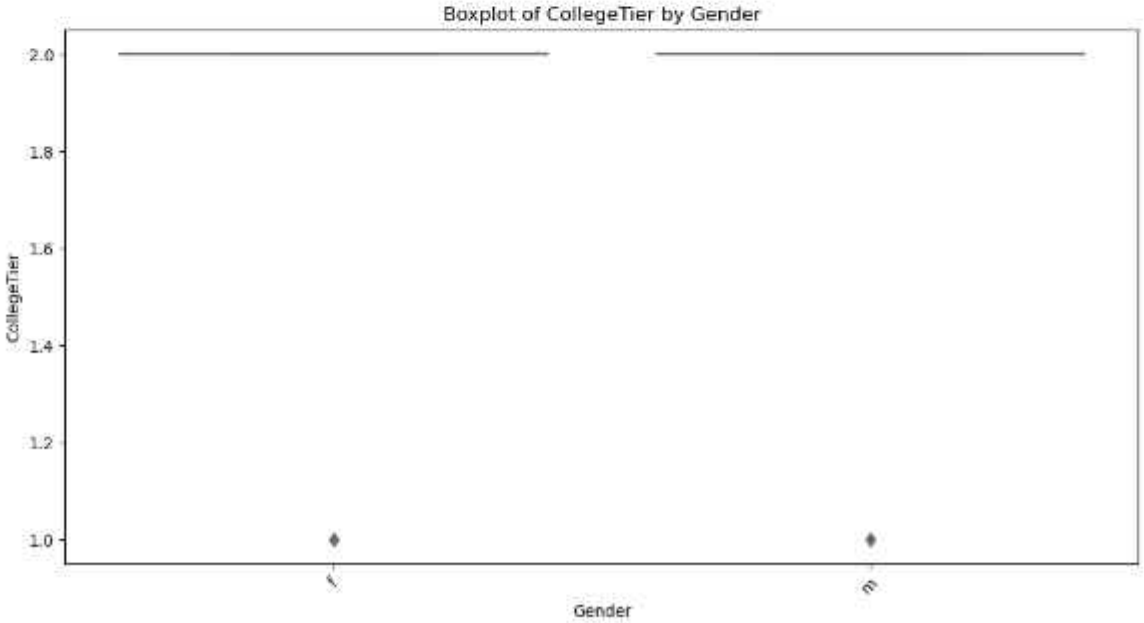

Boxplot of Salary by Gender
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
f
m
Gender

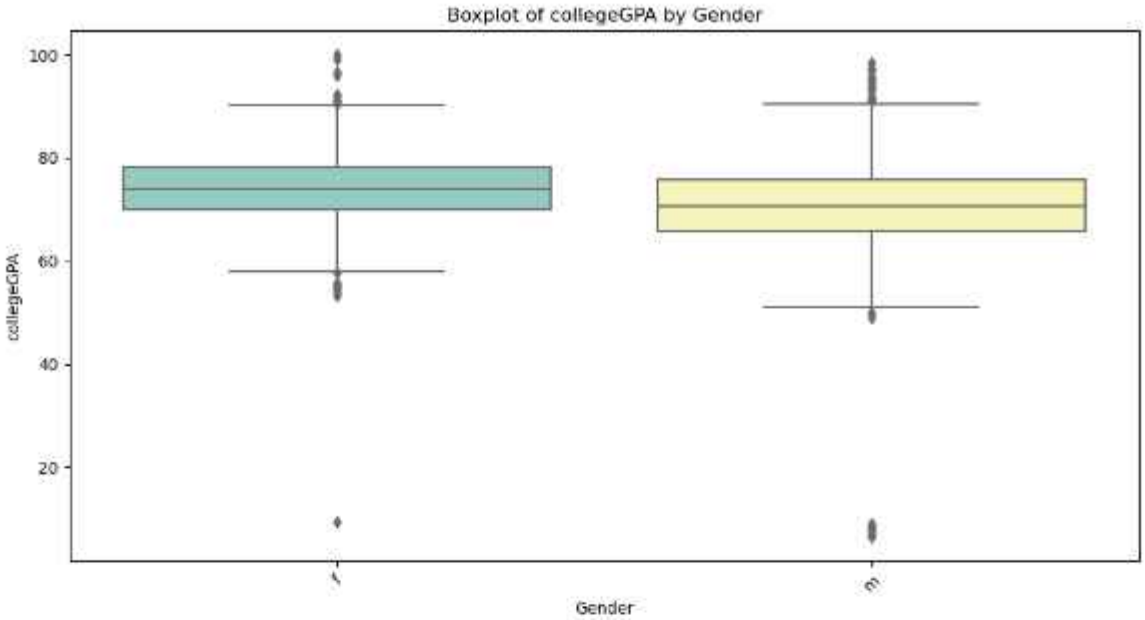

Boxplot of 10percentage by Gender
100
90
80
70
60
50
10percentage
f
m
Gender

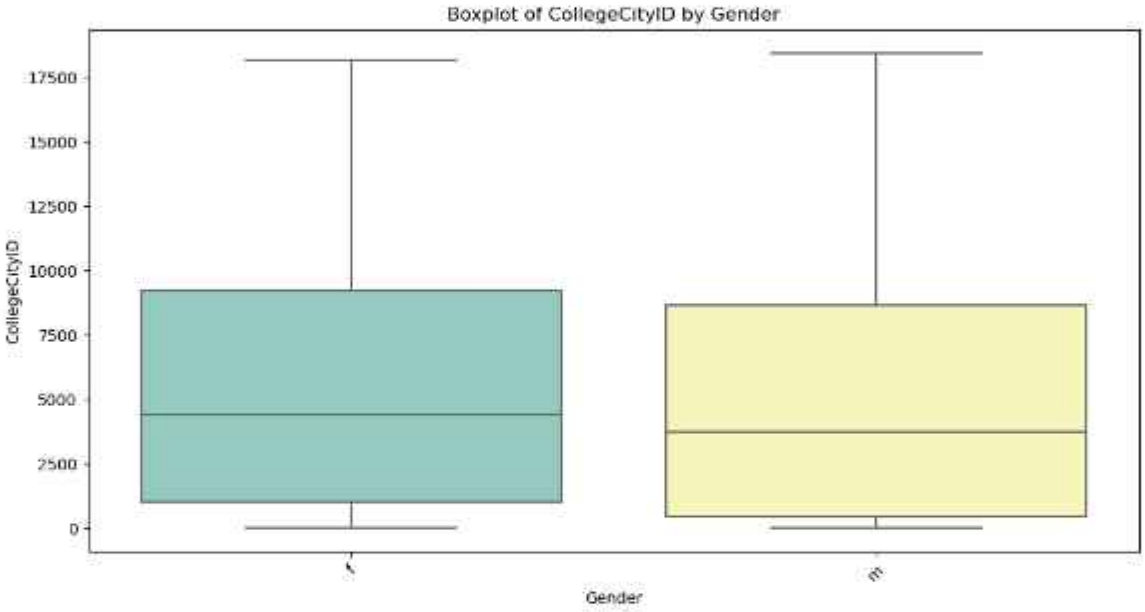

Boxplot of 12graduation by Gender
2012.5
2010.0
2007.5
2005.0
2002.5
2000.0
1997.5
1995.0
12graduation
f
m
Gender

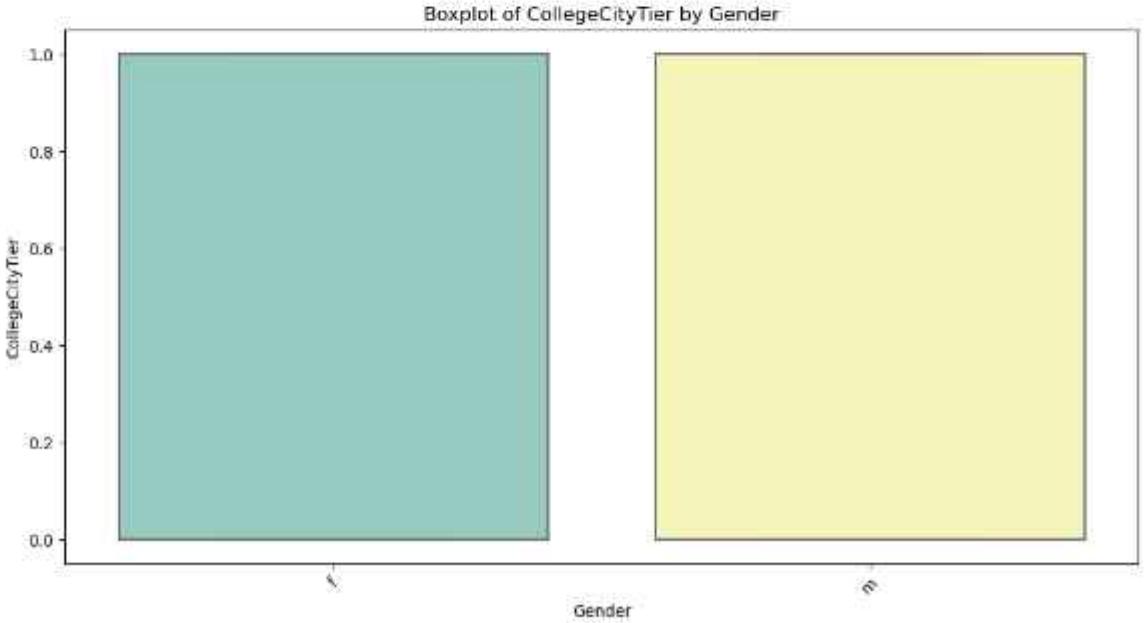

Boxplot of 12percentage by Gender
12percentage
100
90
80
70
60
50
40
f
m
Gender

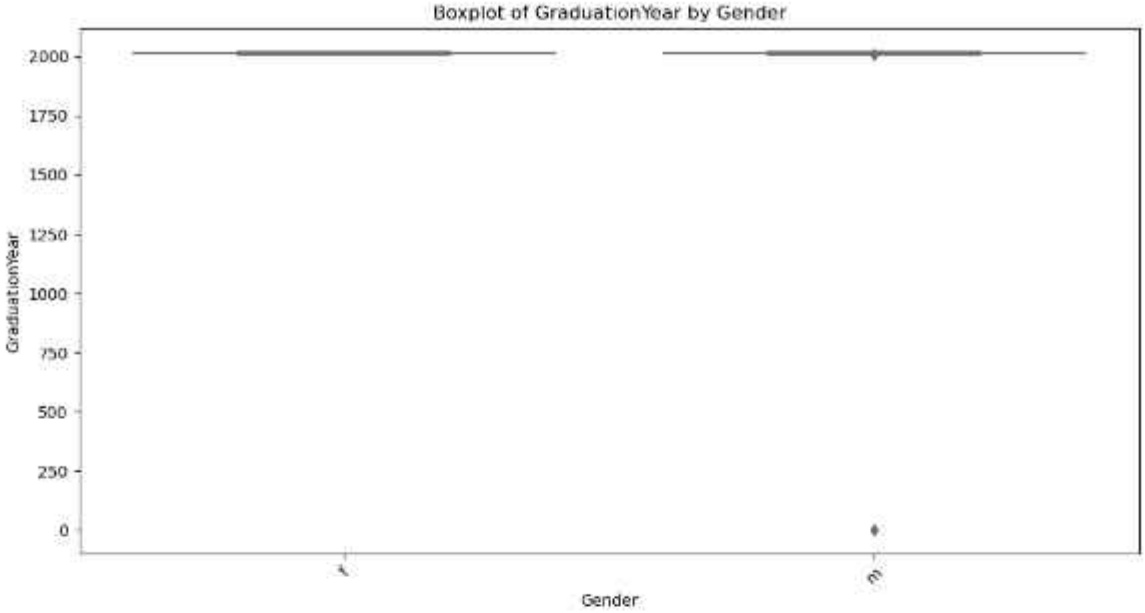

Boxplot of CollegeID by Gender
CollegeID
17500
15000
12500
10000
7500
5000
2500
0
f
m
Gender

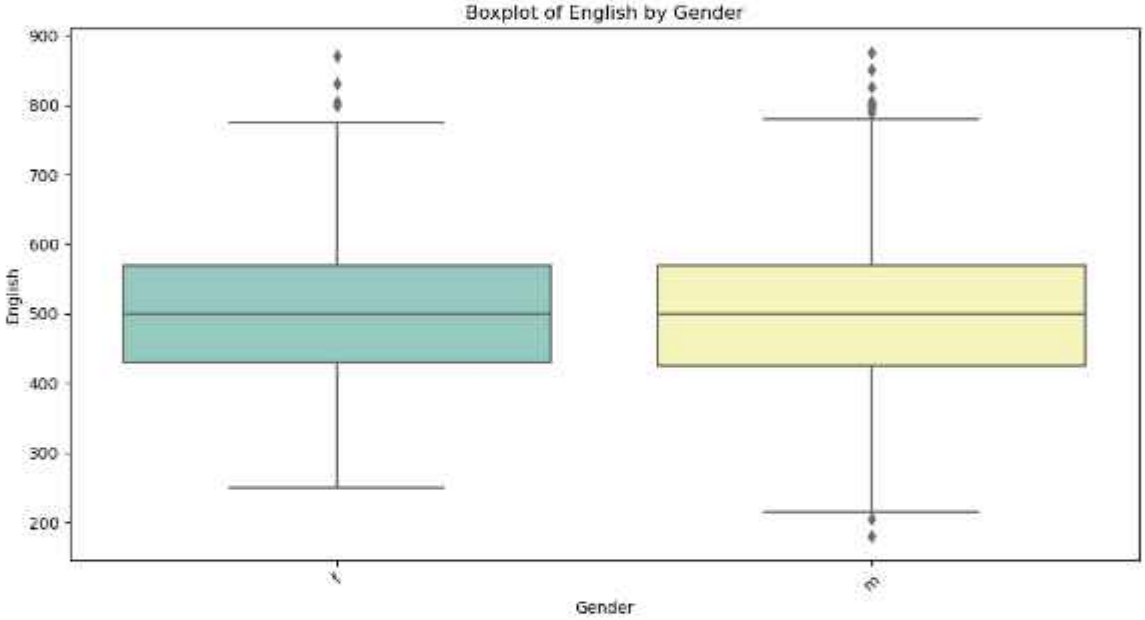

Boxplot of CollegeTier by Gender
CollegeTier
2.0
1.8
1.6
1.4
1.2
1.0
f
m
Gender

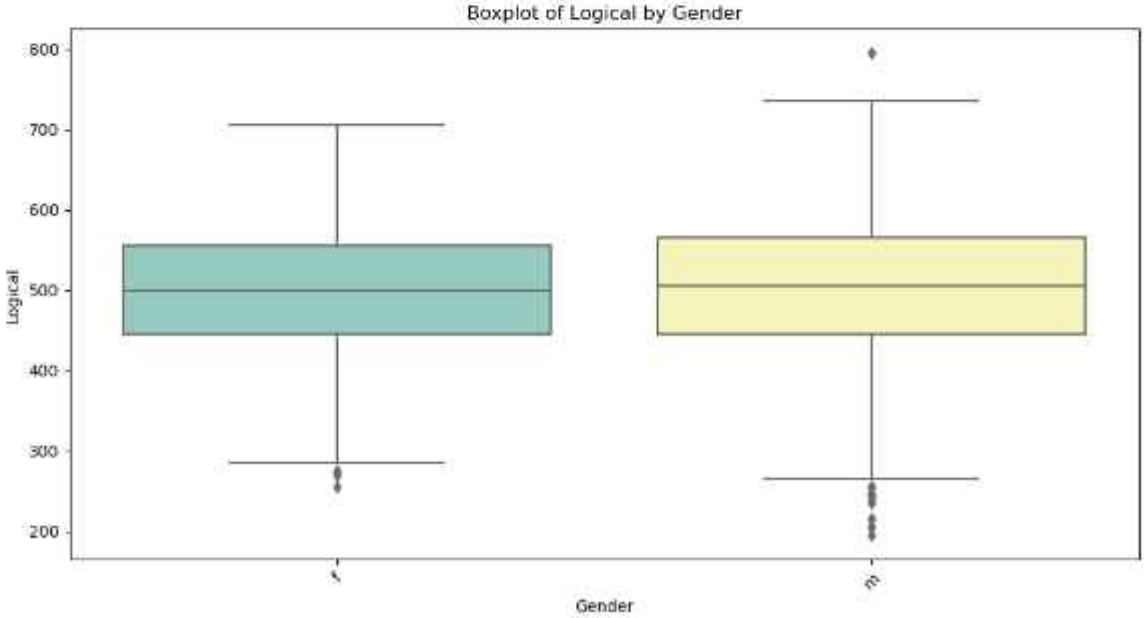

Boxplot of collegeGPA by Gender
collegeGPA
100
80
60
40
20
f
m
Gender

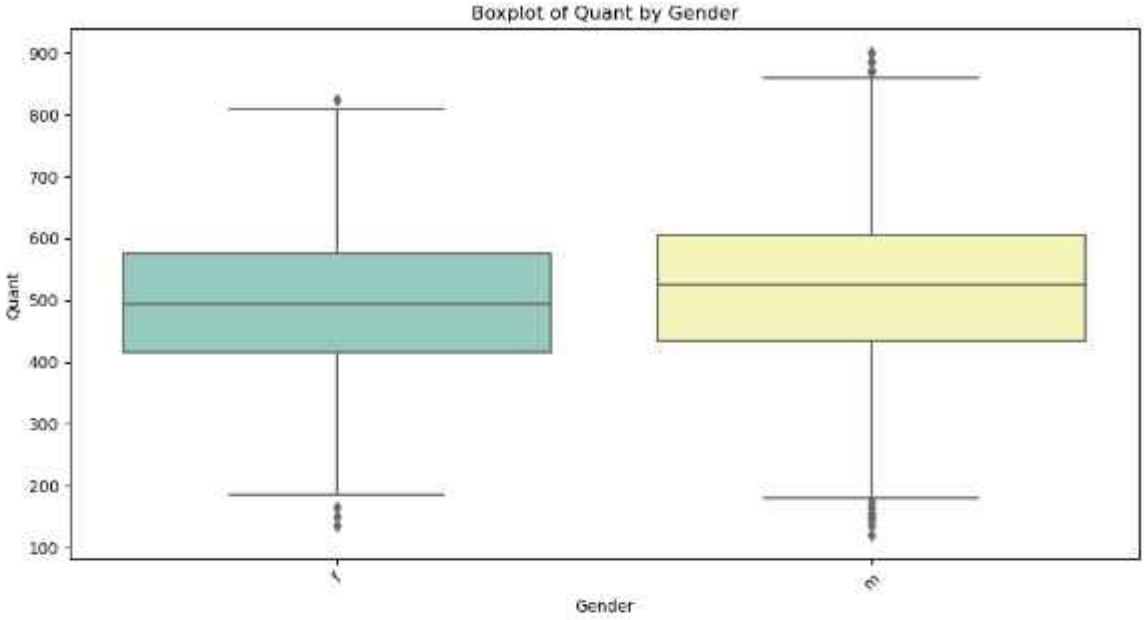

Boxplot of CollegeCityID by Gender
CollegeCityID
17500
15000
12500
10000
7500
5000
2500
0
f
m
Gender

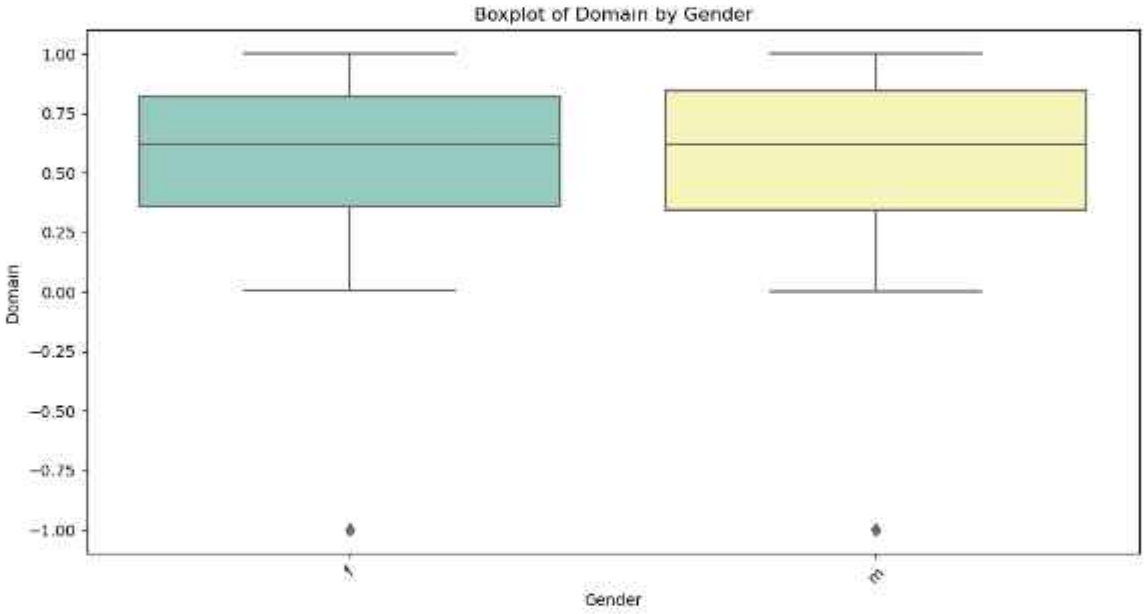

Boxplot of CollegeCityTier by Gender
CollegeCityTier
1.0
0.8
0.6
0.4
0.2
0.0
f
m
Gender

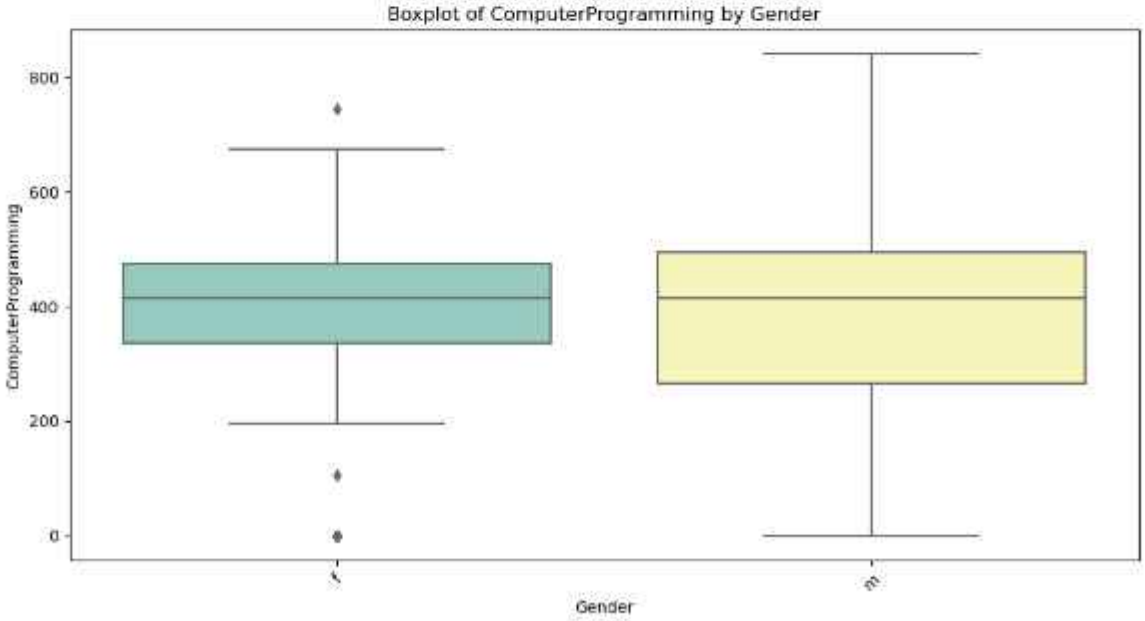

Boxplot of GraduationYear by Gender
GraduationYear
2000
1750
1500
1250
1000
750
500
250
0
f
m
Gender

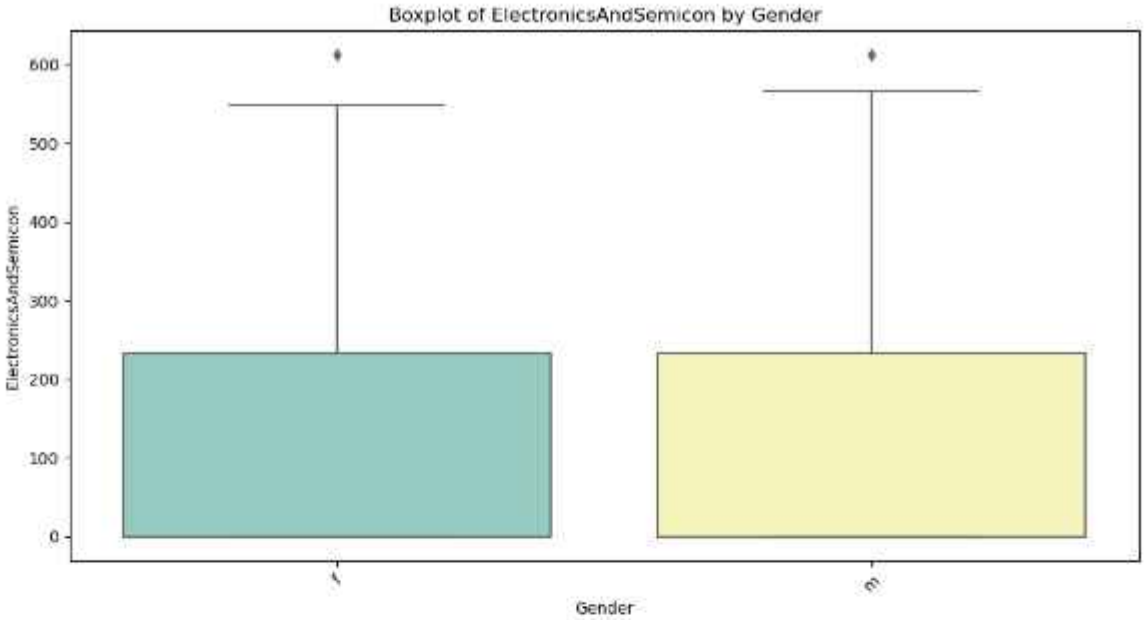

Boxplot of English by Gender
English
900
800
700
600
500
400
300
200
f
m
Gender

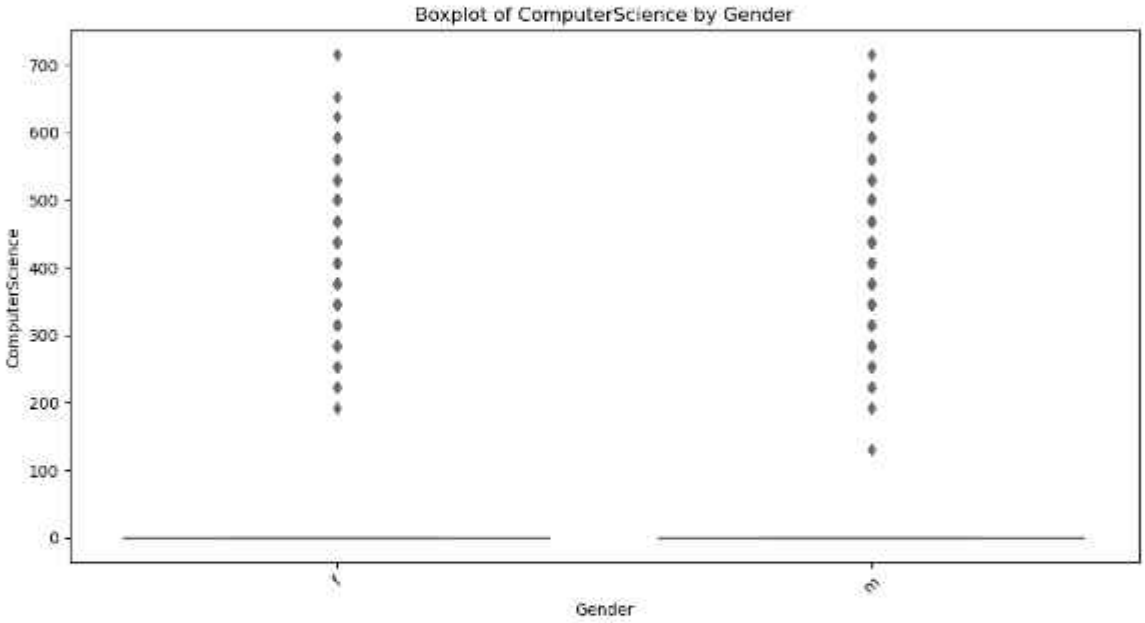

Boxplot of Logical by Gender
Logical
800
700
600
500
400
300
200
f
m
Gender


Boxplot of Quant by Gender
Quant
900
800
700
600
500
400
300
200
100
f
m
Gender

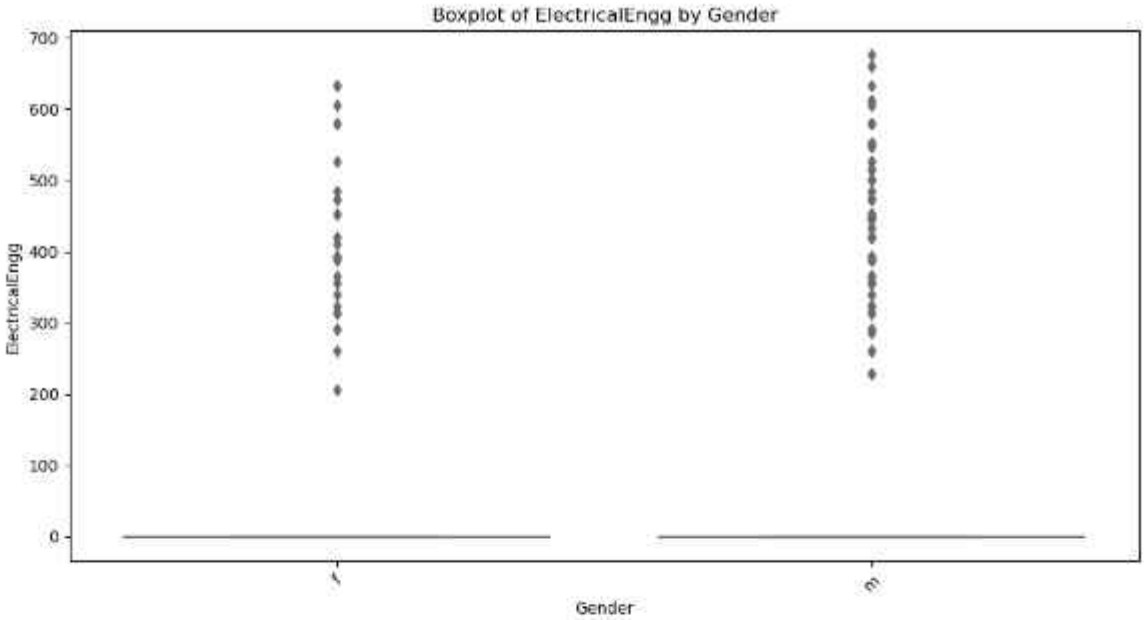

Boxplot of Domain by Gender
Domain
1.00
0.75
0.50
0.25
0.00
−0.25
−0.50
−0.75
−1.00
f
m
Gender

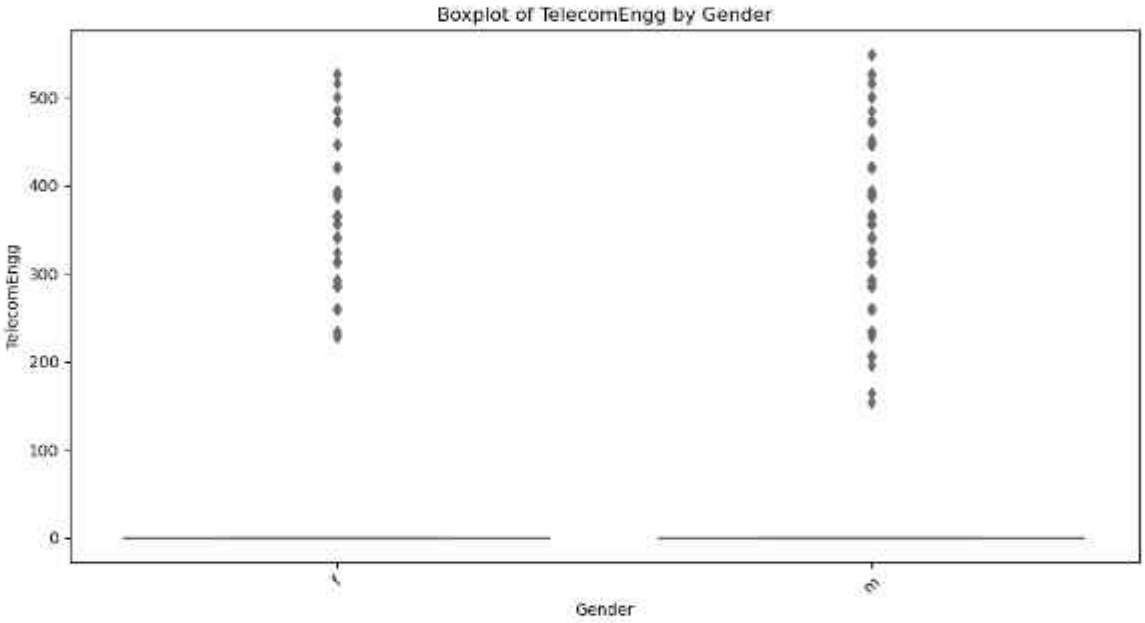

Boxplot of ComputerProgramming by Gender
ComputerProgramming
800
600
400
200
0
f
m
Gender

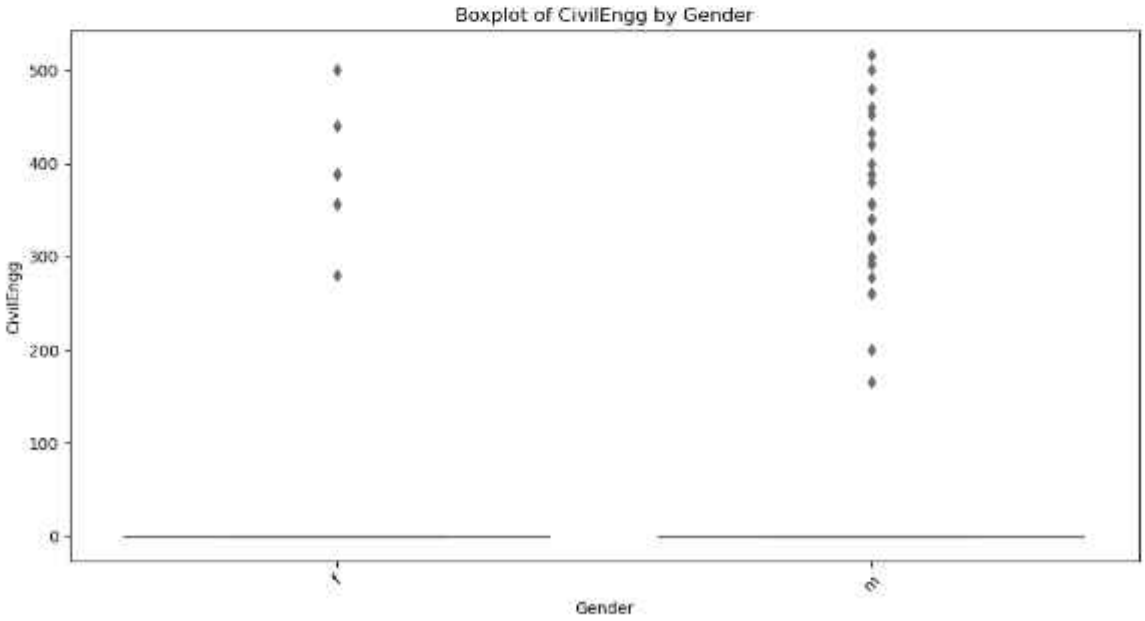

Boxplot of ElectronicsAndSemicon by Gender
ElectronicsAndSemicon
0
100
200
300
400
500
600
f
m
Gender

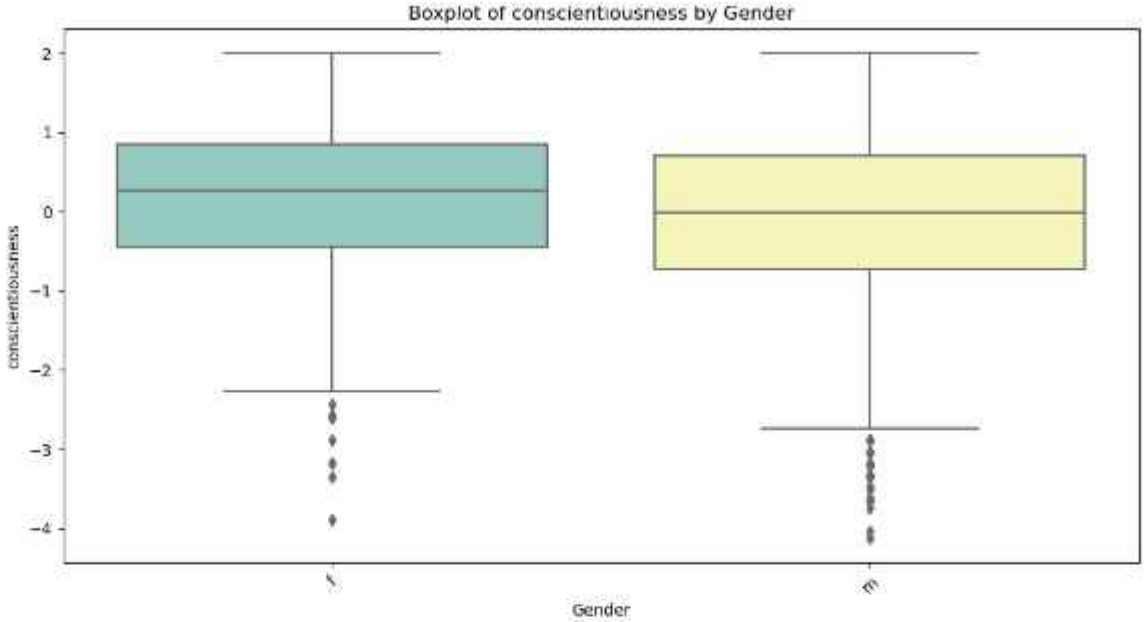

Boxplot of ComputerScience by Gender
ComputerScience
0
100
200
300
400
500
600
700
f
m
Gender

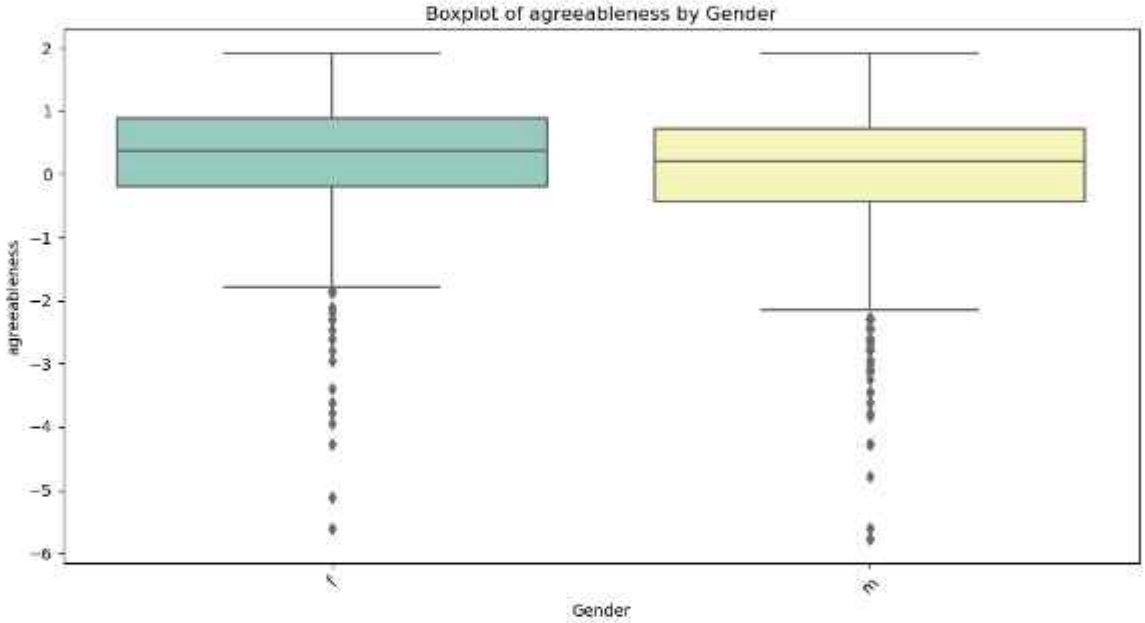
Boxplot of MechanicalEngg by Gender
MechanicalEngg
0
100
200
300
400
500
600
f
m
Gender

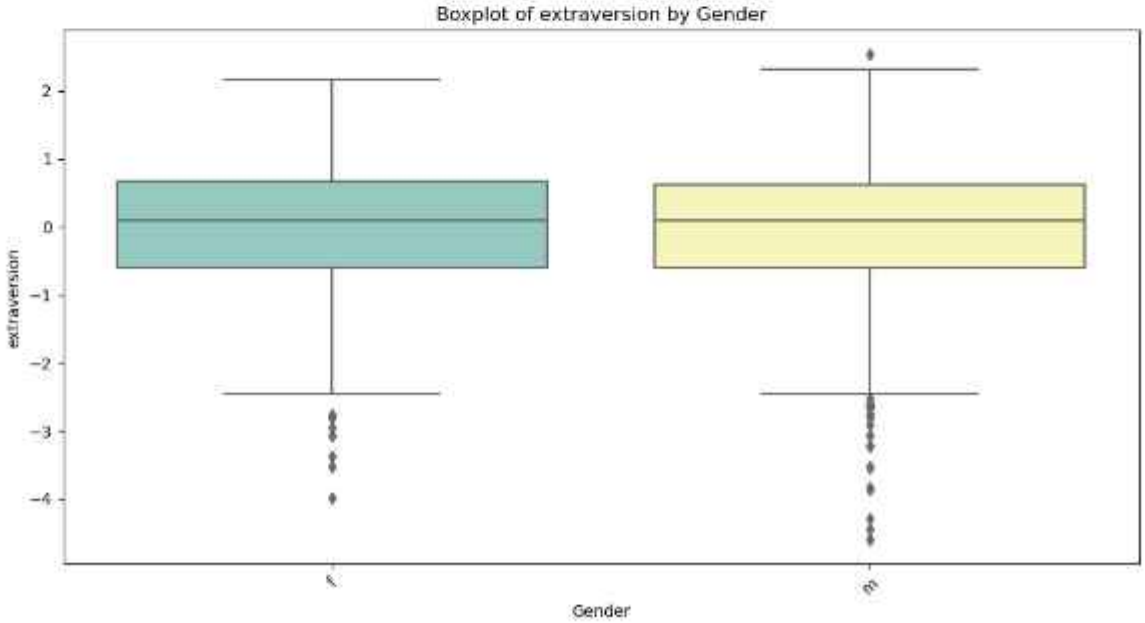

Boxplot of ElectricalEngg by Gender
ElectricalEngg
700
600
500
400
300
200
100
0
f
m
Gender

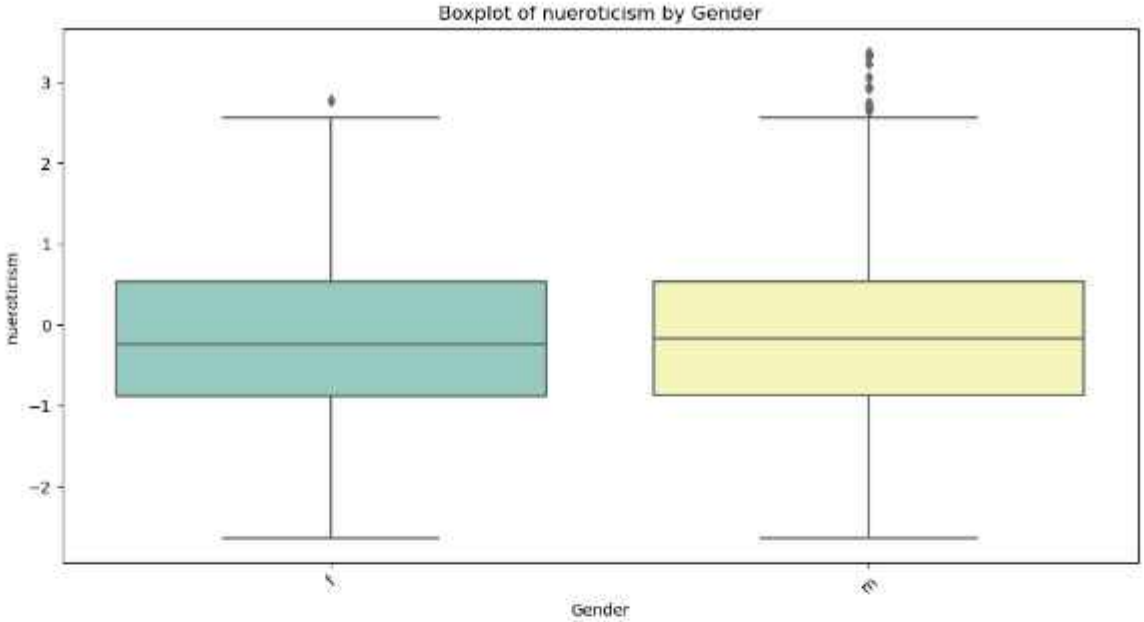

Boxplot of TelecomEngg by Gender
TelecomEngg
500
400
300
200
100
0
f
m
Gender

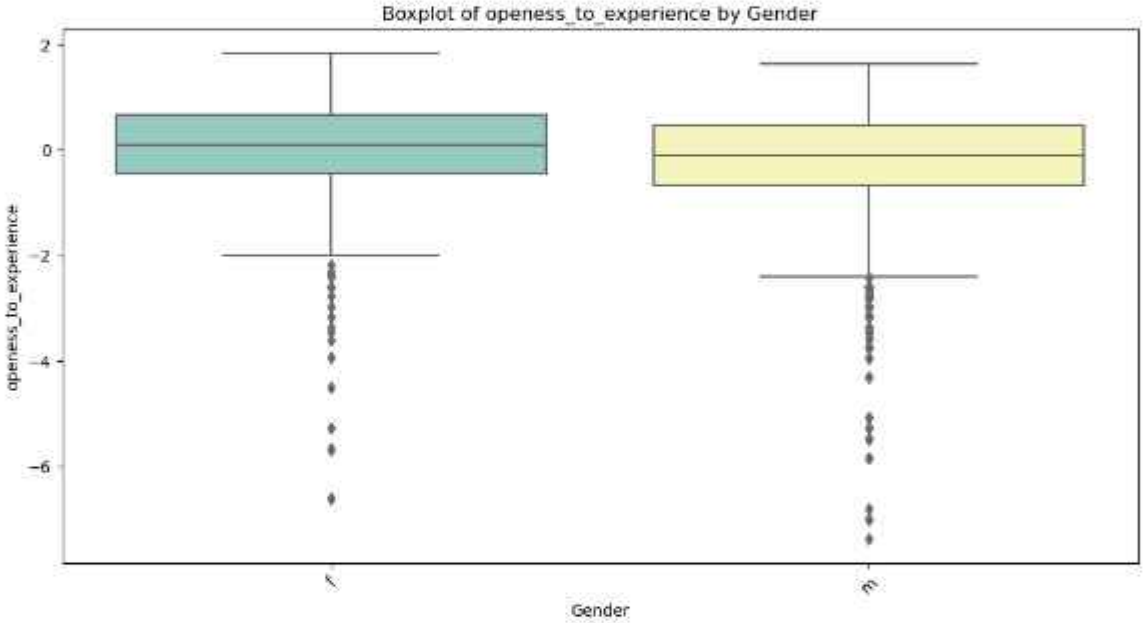

Boxplot of CivilEngg by Gender
CivilEngg
500
400
300
200
100
0
f
m
Gender

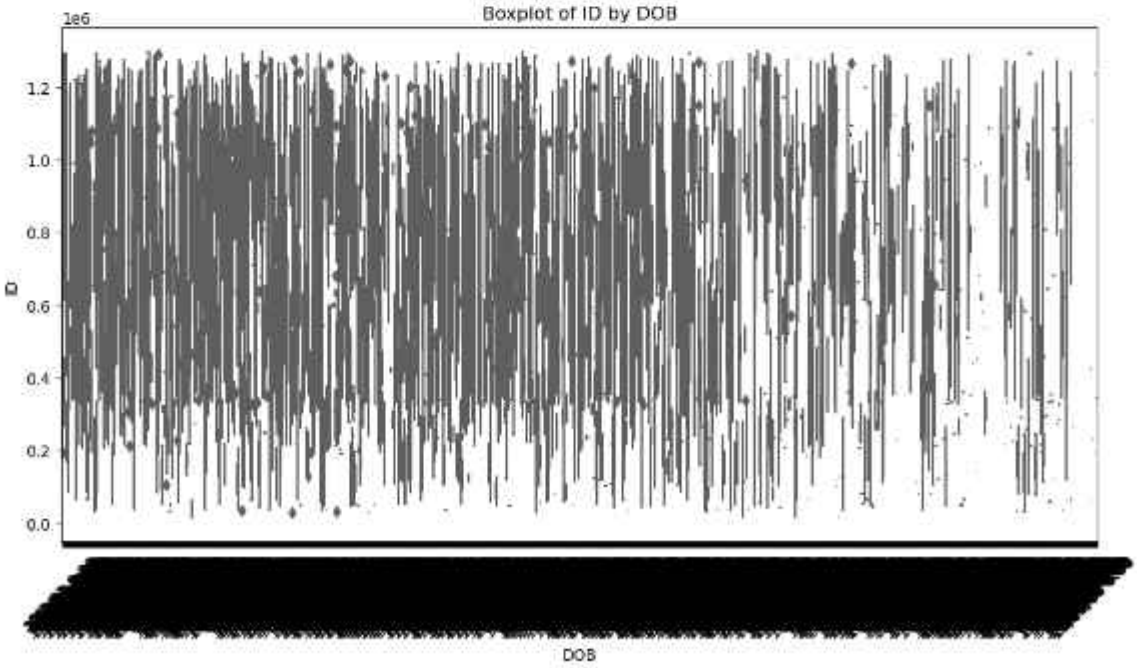

Boxplot of conscientiousness by Gender
conscientiousness
Gender

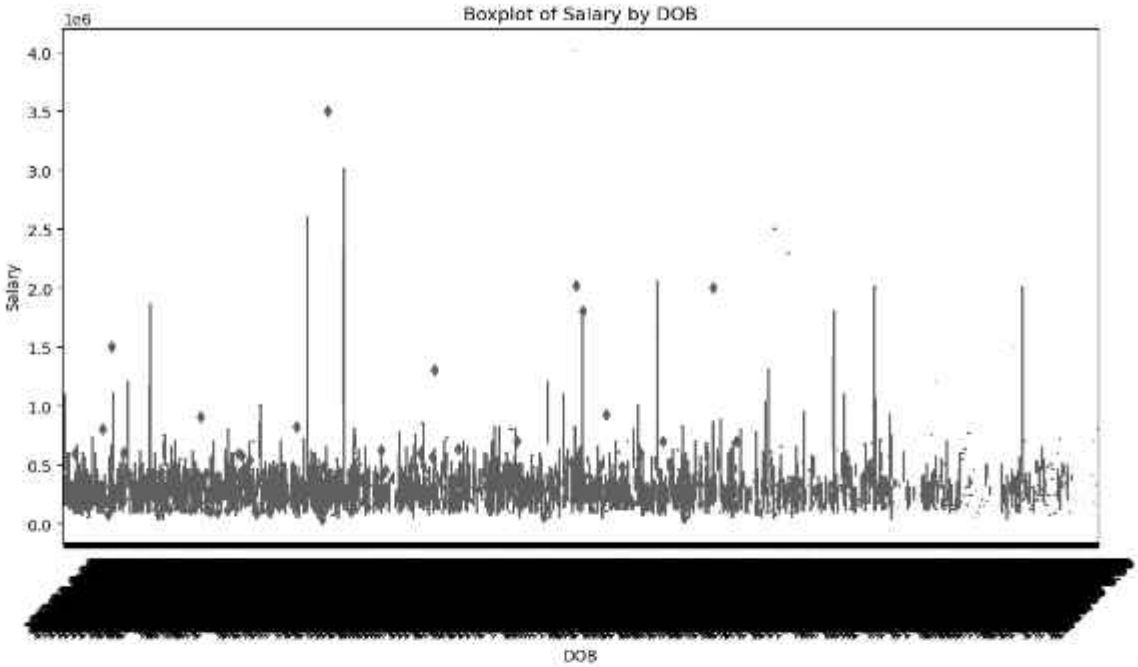

Boxplot of agreeableness by Gender
agreeableness
Gender

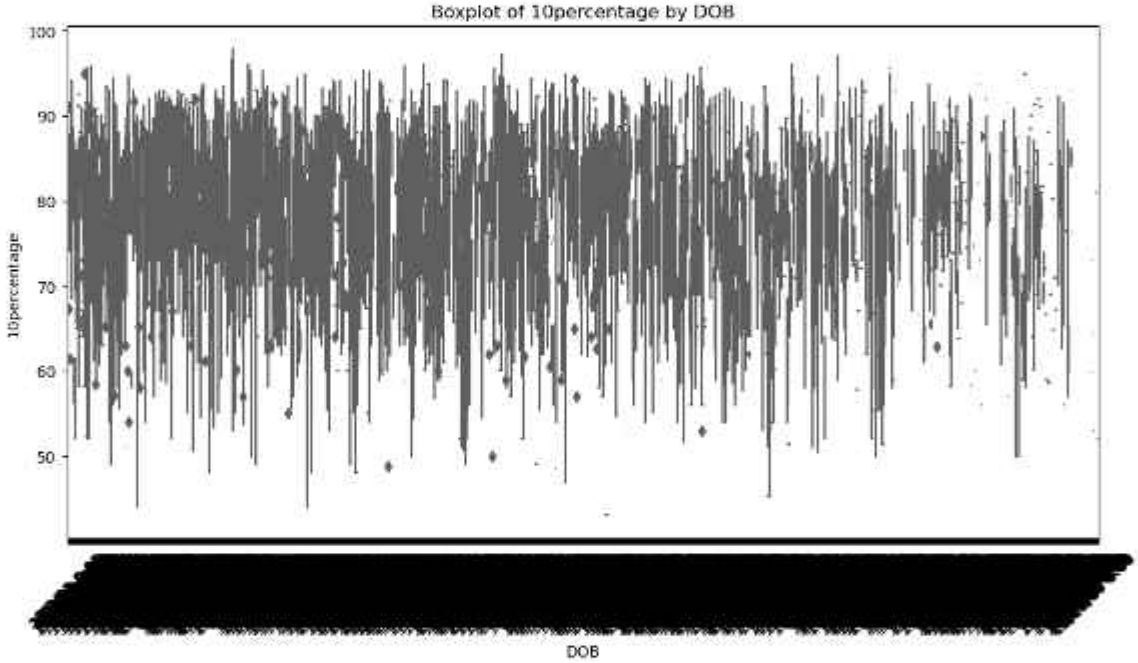

Boxplot of extraversion by Gender
extraversion
Gender

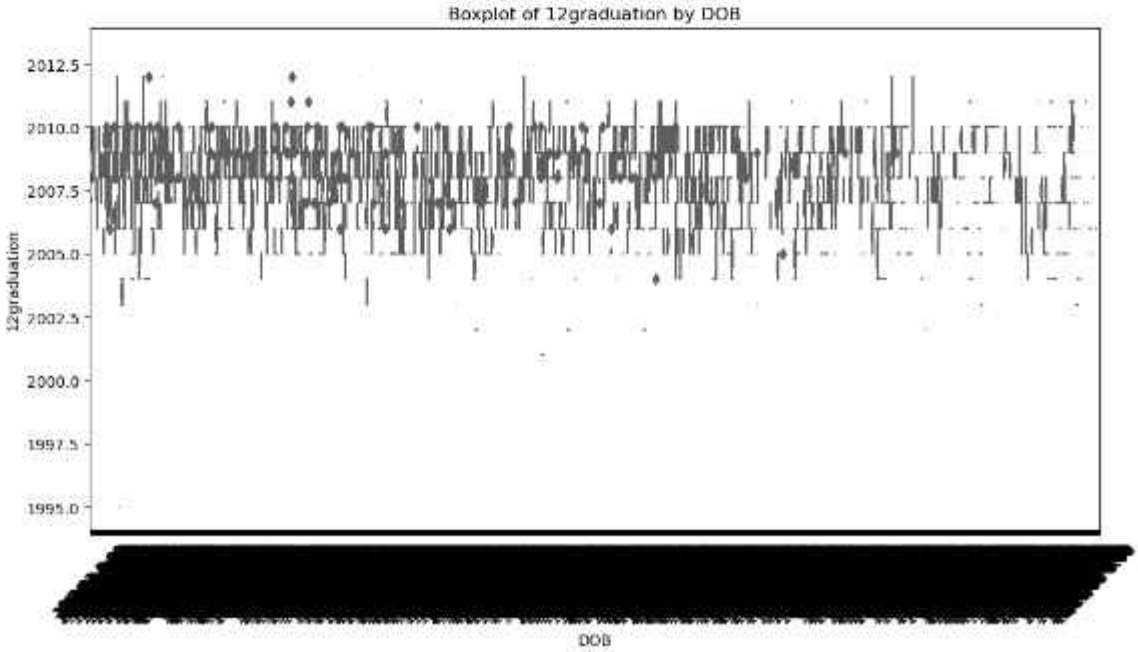

Boxplot of nueroticism by Gender
nueroticism
3
2
1
0
−1
−2
f
m
Gender

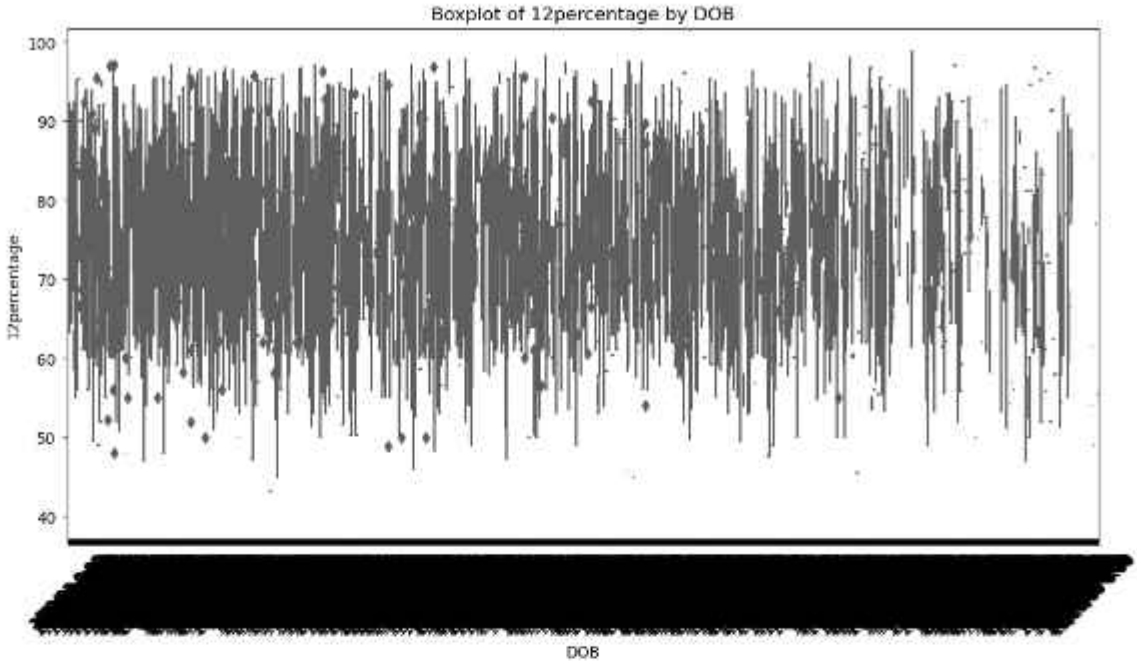

Boxplot of openess_to_experience by Gender
openess_to_experience
2
0
−2
−4
−6
f
m
Gender

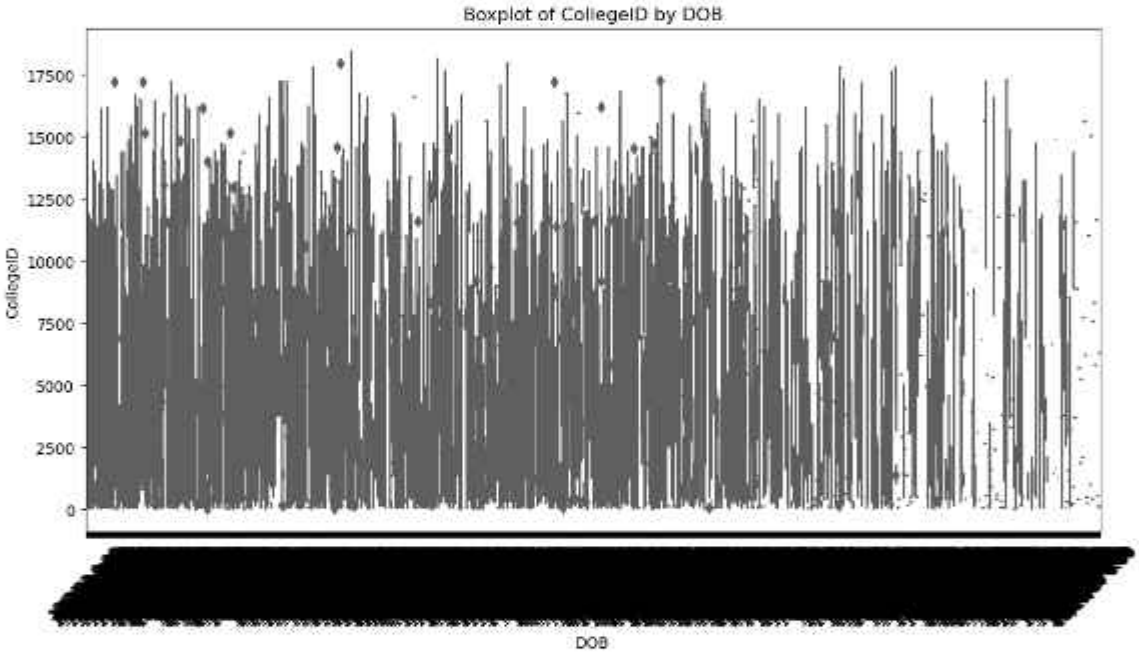

Boxplot of ID by DOB
1e6
ID
1.2
1.0
0.8
0.6
0.4
0.2
0.0
DOB

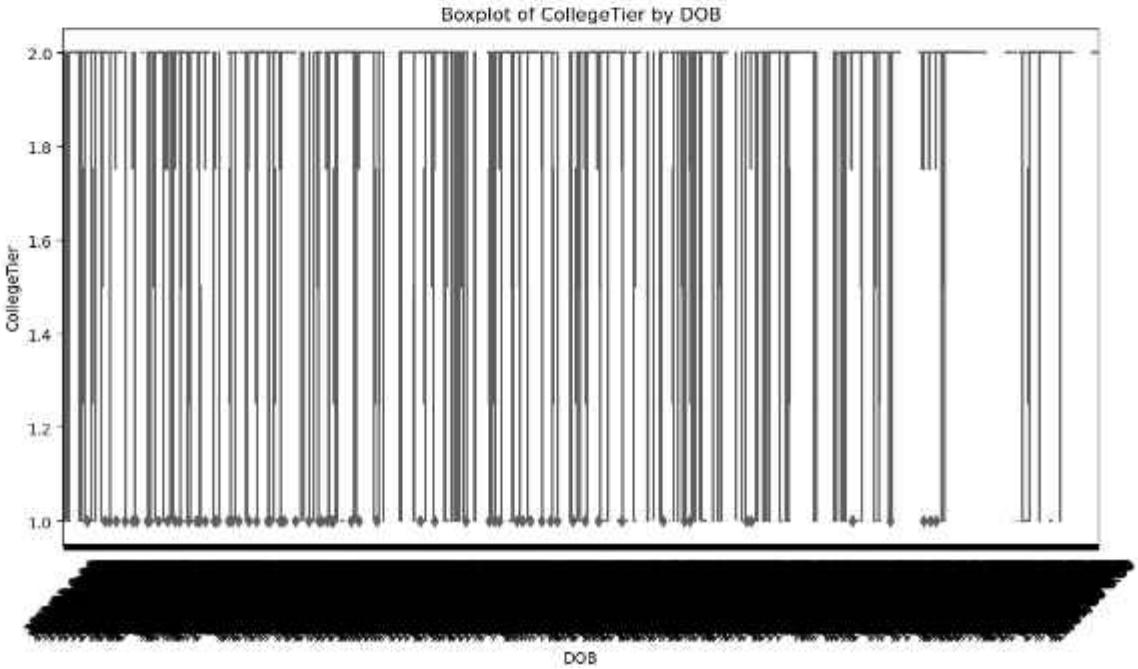

Boxplot of Salary by DOB
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
DOB

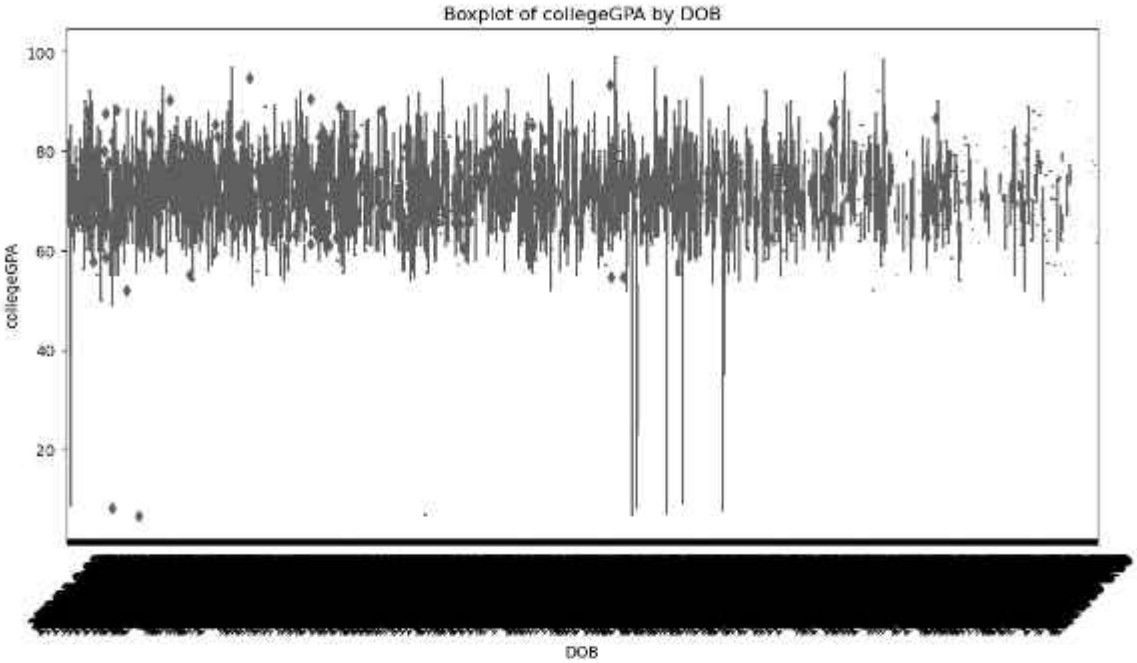

Boxplot of 10percentage by DOB
100
90
80
70
60
50
10percentage
DOB

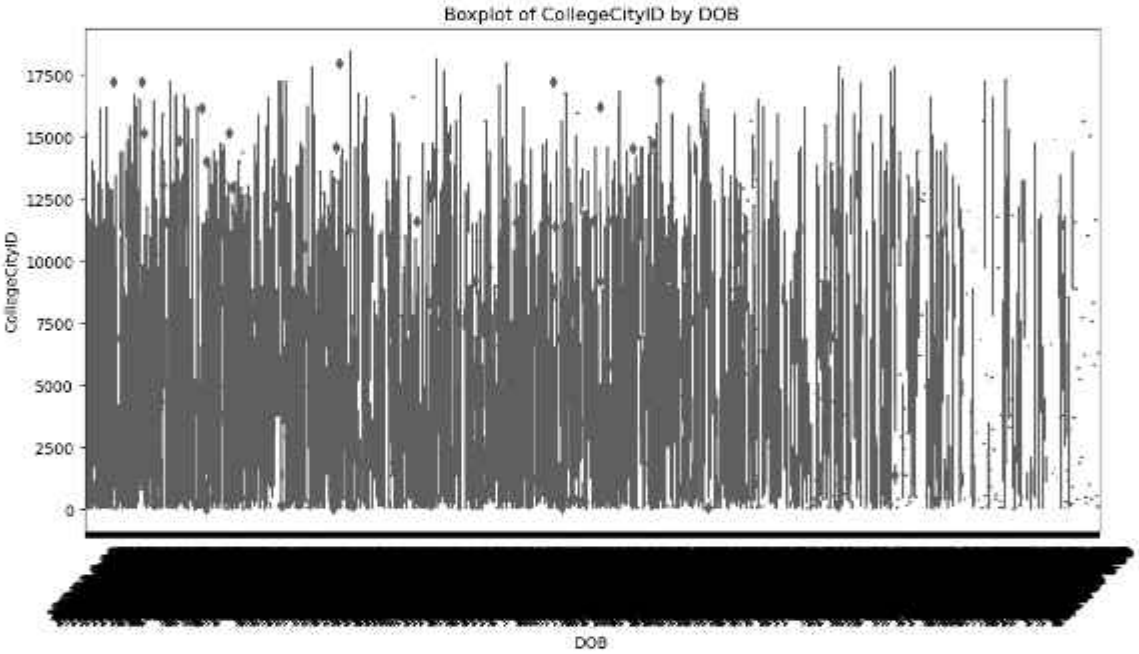

Boxplot of 12graduation by DOB
2012.5
2010.0
2007.5
2005.0
2002.5
2000.0
1997.5
1995.0
12graduation
DOB

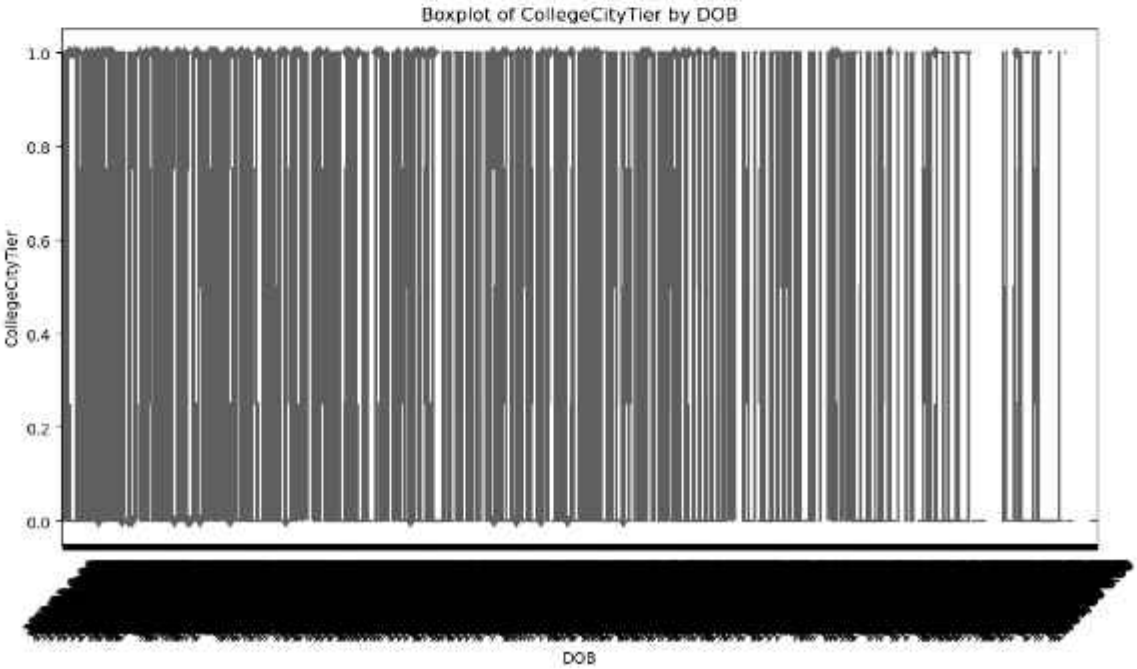

Boxplot of 12percentage by DOB
12percentage
100
90
80
70
60
50
40
DOB

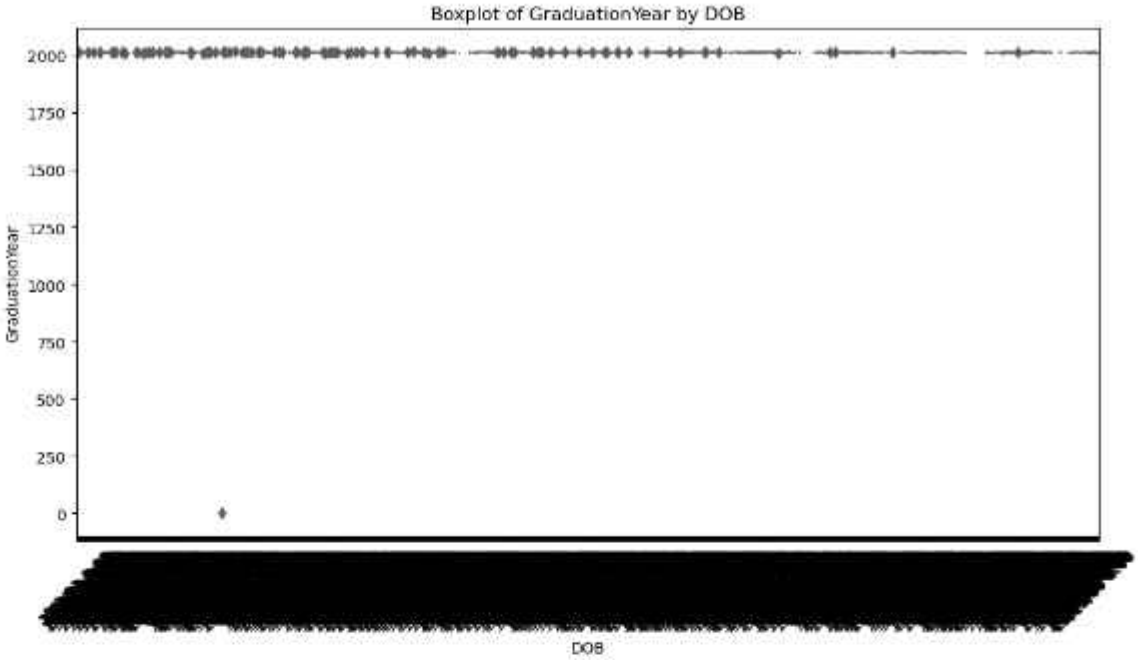

Boxplot of CollegeID by DOB
CollegeID
17500
15000
12500
10000
7500
5000
2500
0
DOB

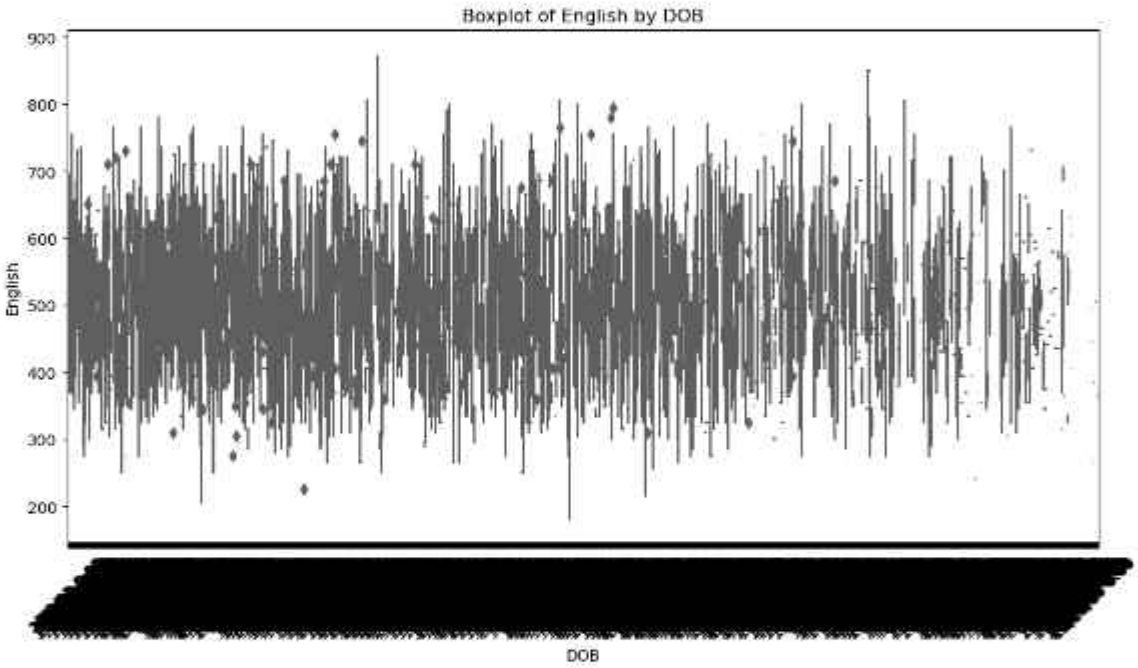

Boxplot of CollegeTier by DOB
CollegeTier
2.0
1.8
1.6
1.4
1.2
1.0
DOB

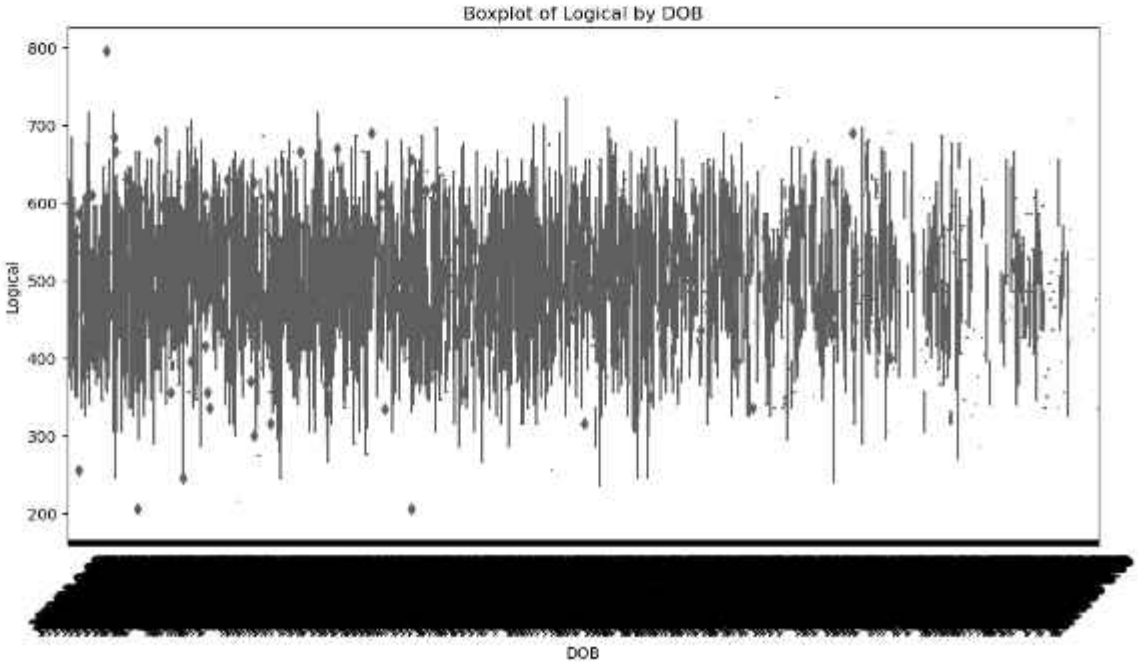

Boxplot of collegeGPA by DOB
collegeGPA
100
80
60
40
20
DOB

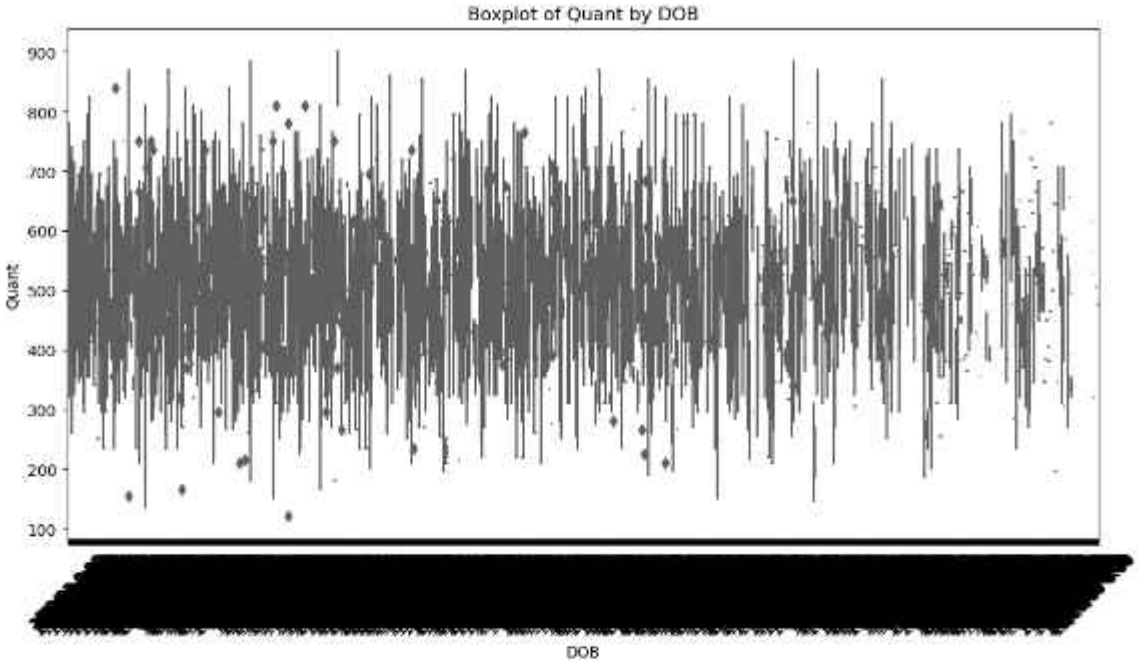

Boxplot of CollegeCityID by DOB
CollegeCityID
17500
15000
12500
10000
7500
5000
2500
0
DOB

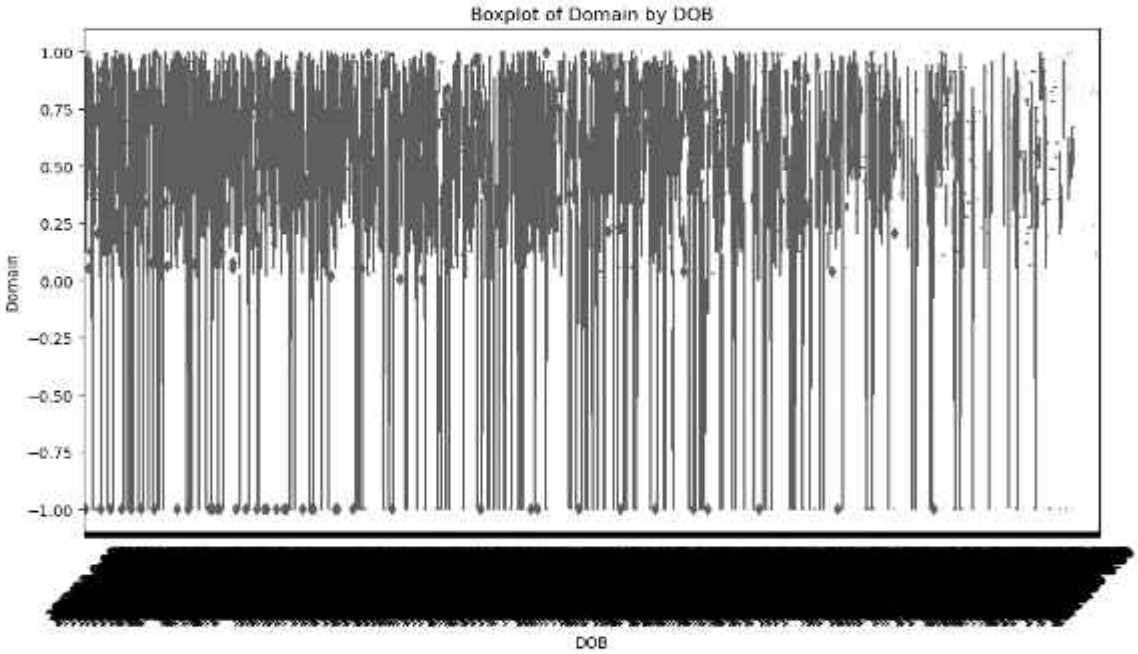

Boxplot of CollegeCityTier by DOB
CollegeCityTier
1.0
0.8
0.6
0.4
0.2
0.0
DOB

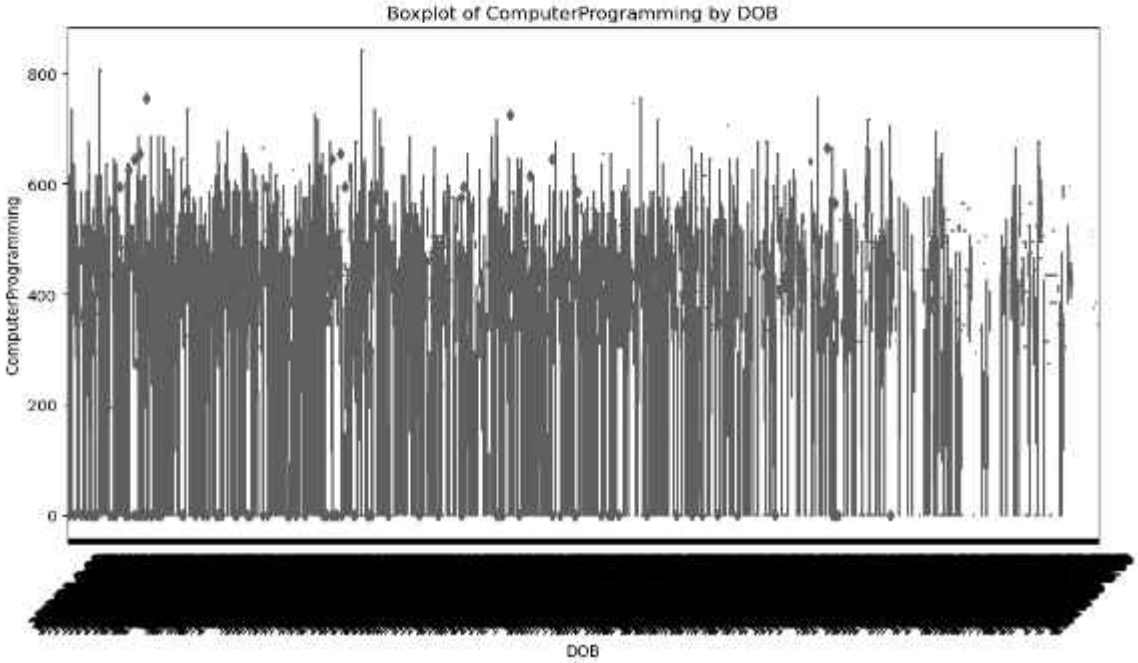

Boxplot of GraduationYear by DOB
GraduationYear
2000
1750
1500
1250
1000
750
500
250
0
DOB

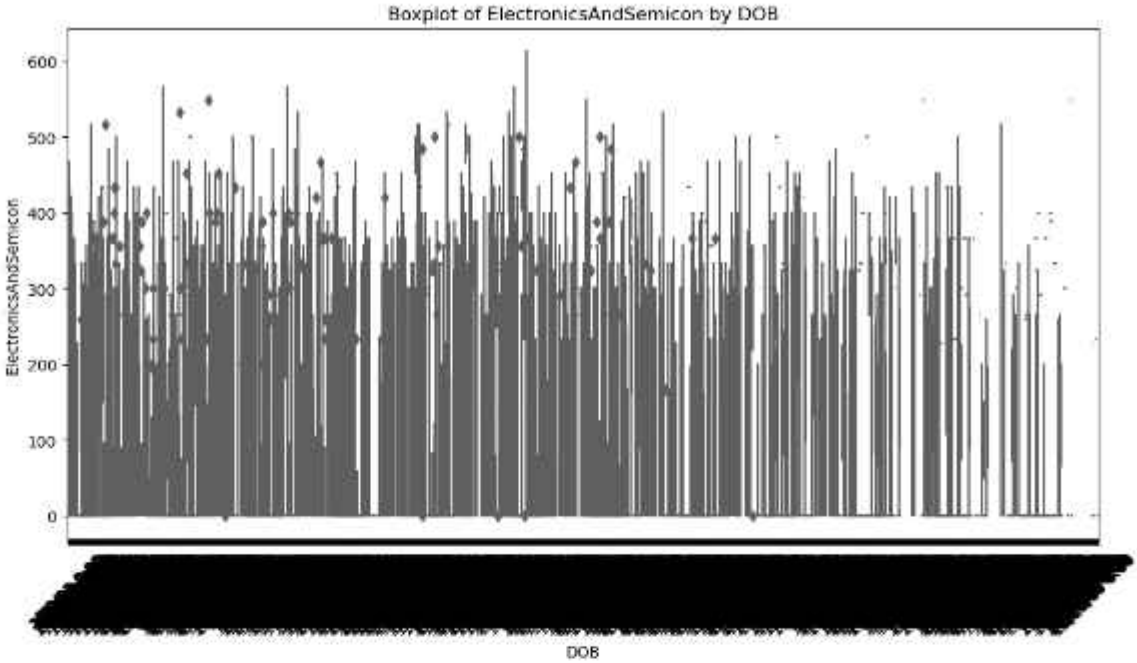

Boxplot of English by DOB
English
900
800
700
600
500
400
300
200
DOB

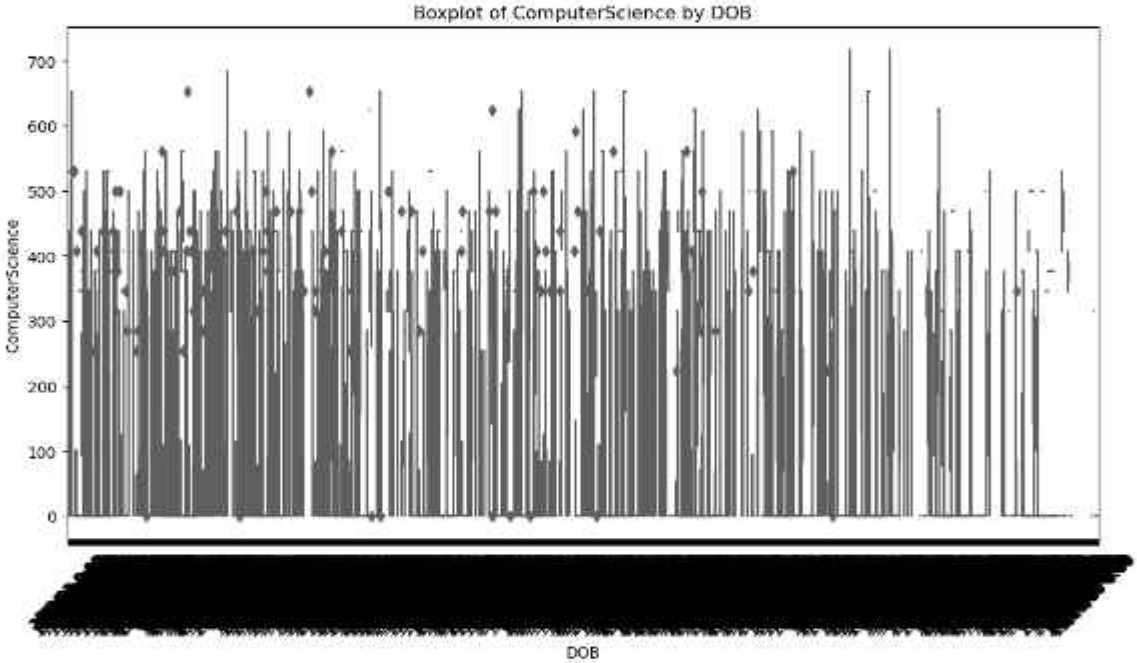

Boxplot of Logical by DOB
Logical
800
700
600
500
400
300
200
DOB

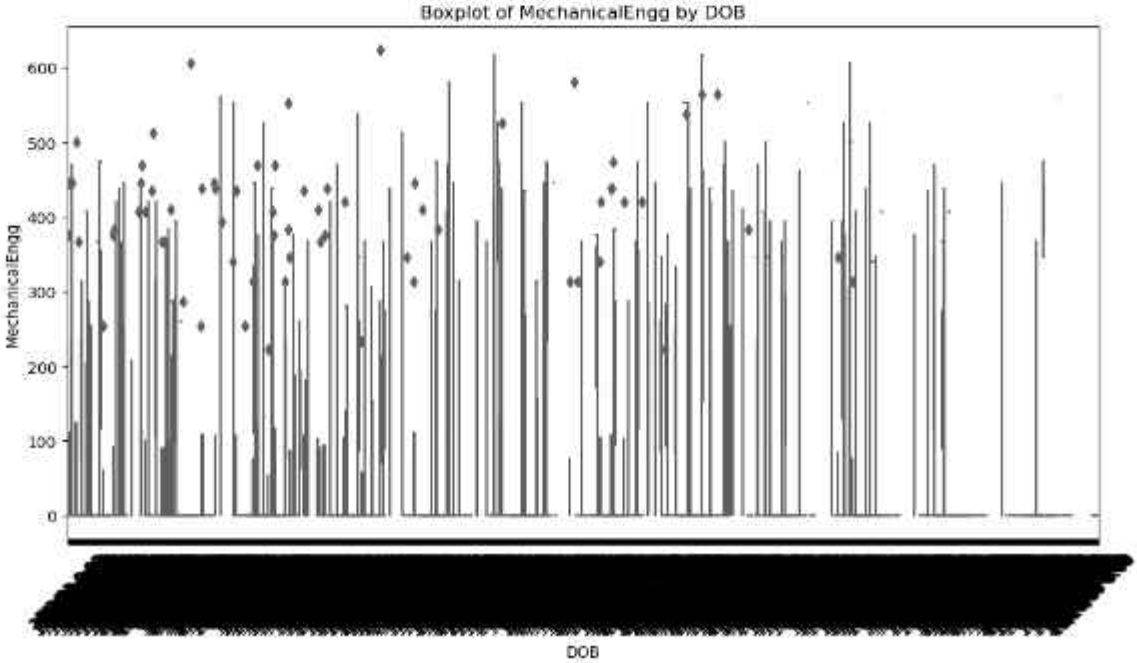

Boxplot of Quant by DOB
Quant
900
800
700
600
500
400
300
200
100
DOB

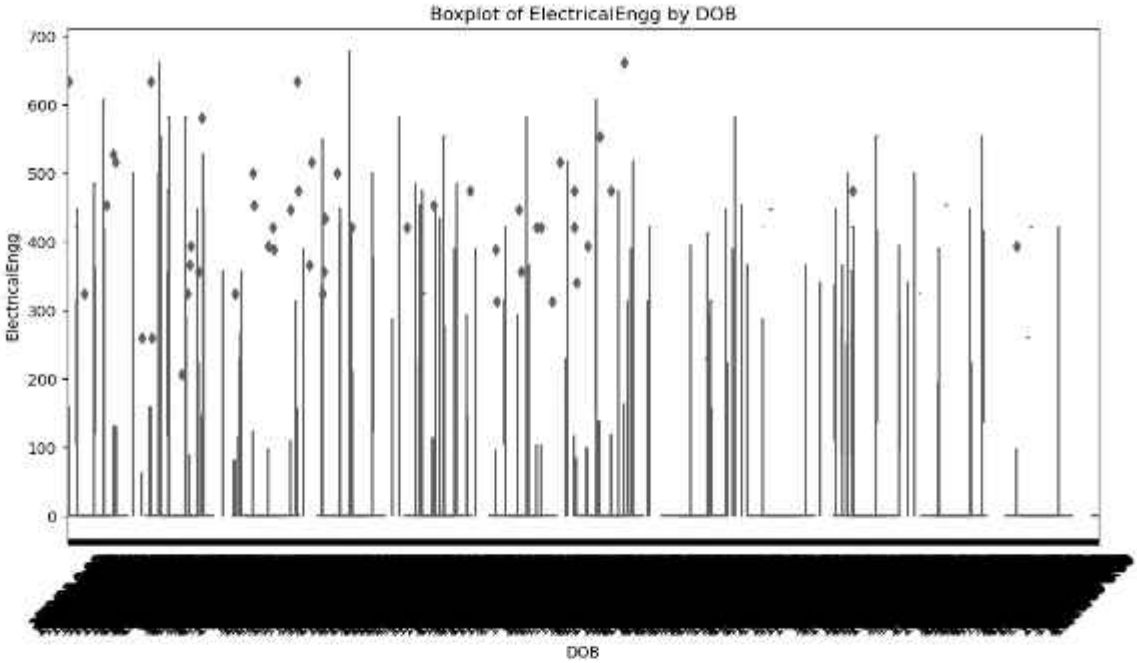

Boxplot of Domain by DOB
Domain
1.00
0.75
0.50
0.25
0.00
−0.25
−0.50
−0.75
−1.00
DOB

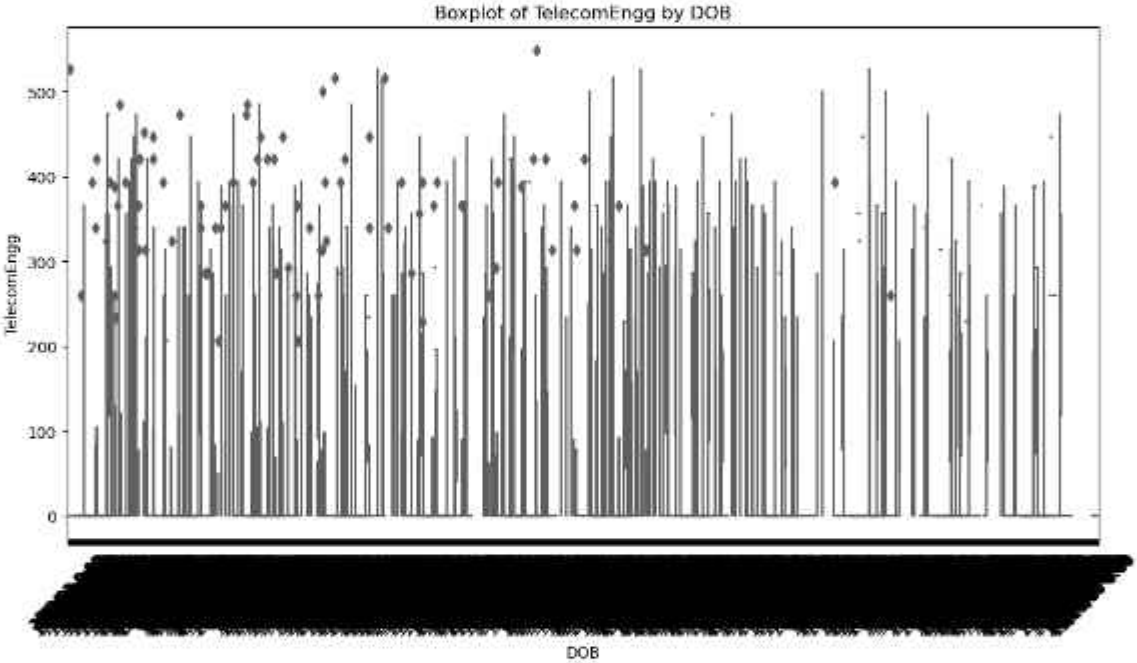

Boxplot of ComputerProgramming by DOB
ComputerProgramming
800
600
400
200
0
DOB

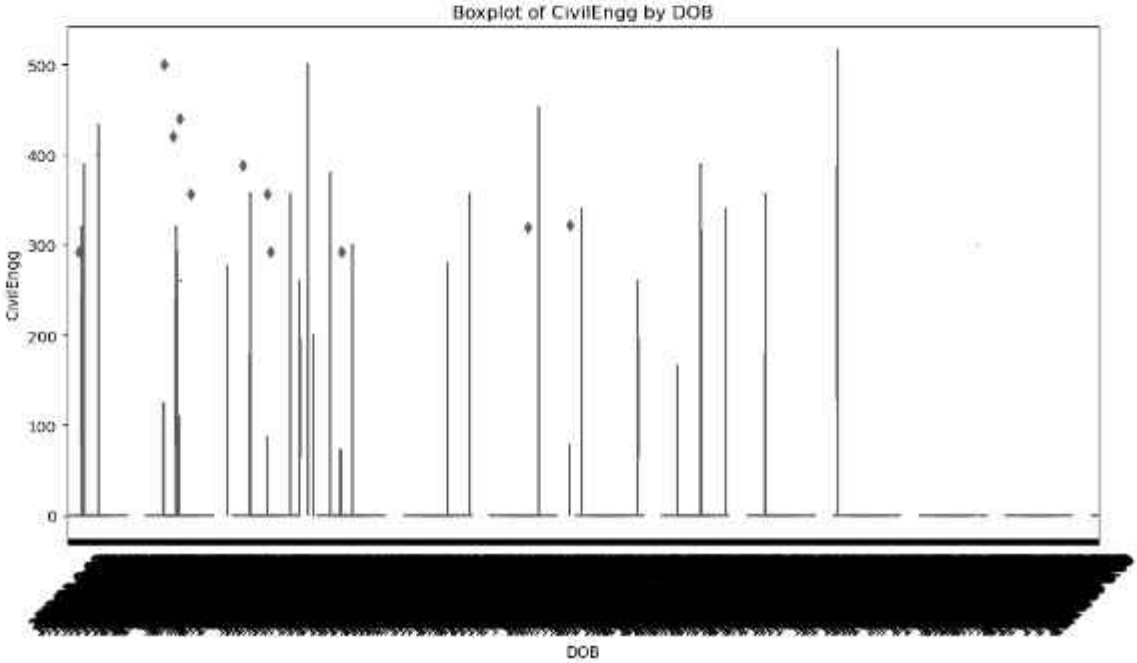

Boxplot of ElectronicsAndSemicon by DOB
ElectronicsAndSemicon
0
100
200
300
400
500
600
DOB

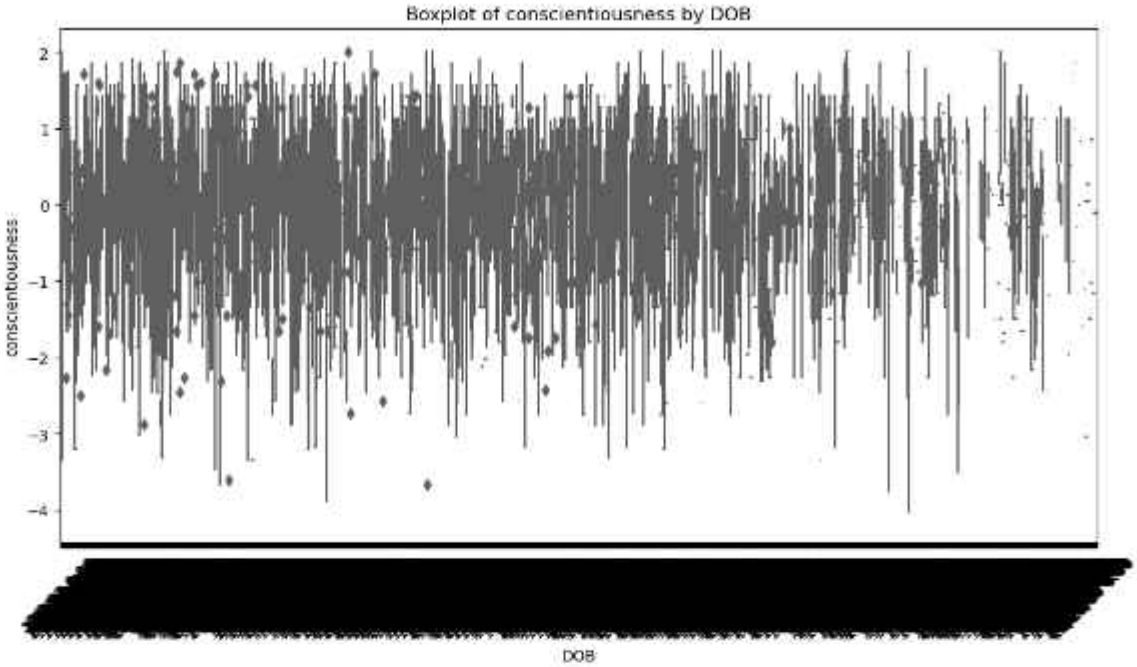

Boxplot of ComputerScience by DOB
ComputerScience
0
100
200
300
400
500
600
700
DOB

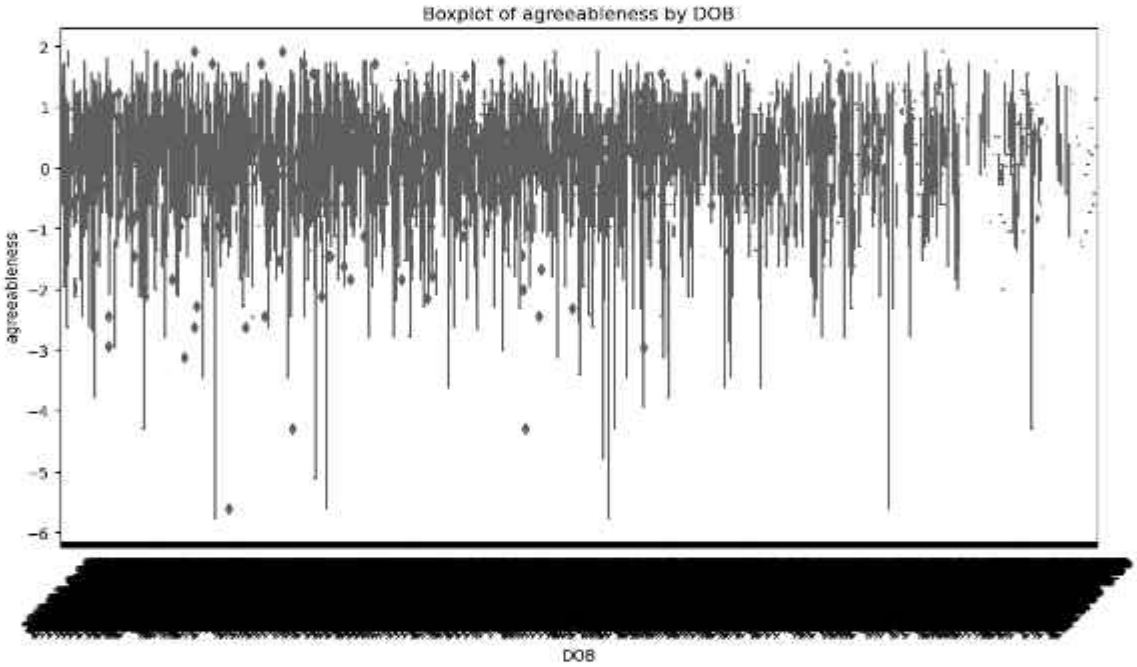

Boxplot of MechanicalEngg by DOB
MechanicalEngg
0
100
200
300
400
500
600
DOB

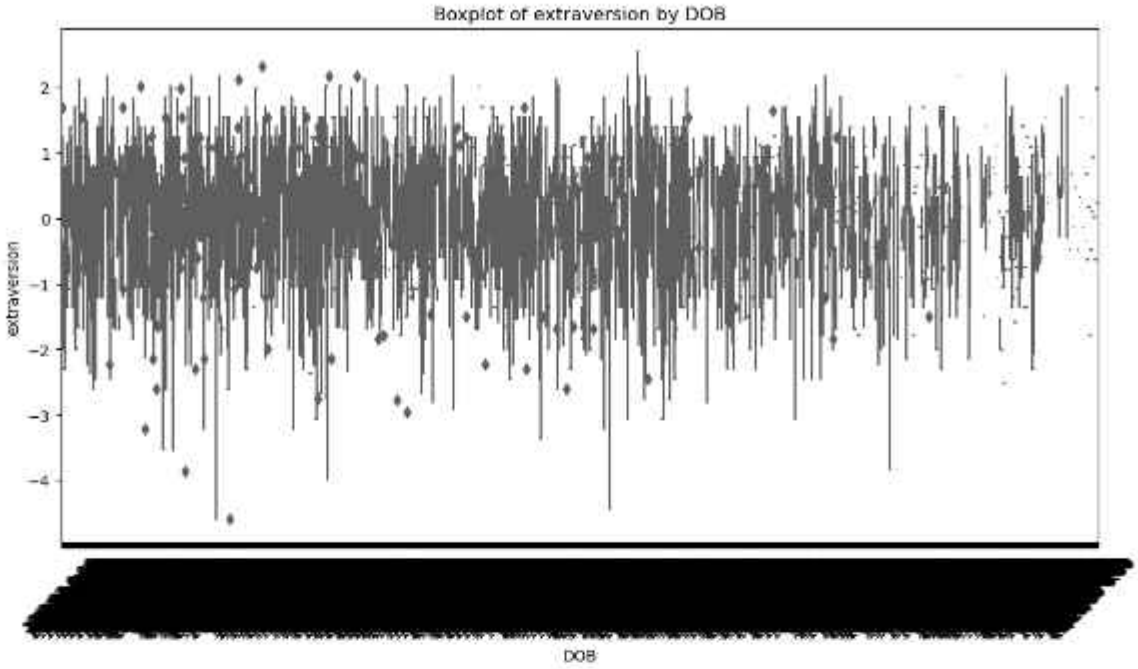

Boxplot of ElectricalEngg by DOB
ElectricalEngg
0
100
200
300
400
500
600
700
DOB

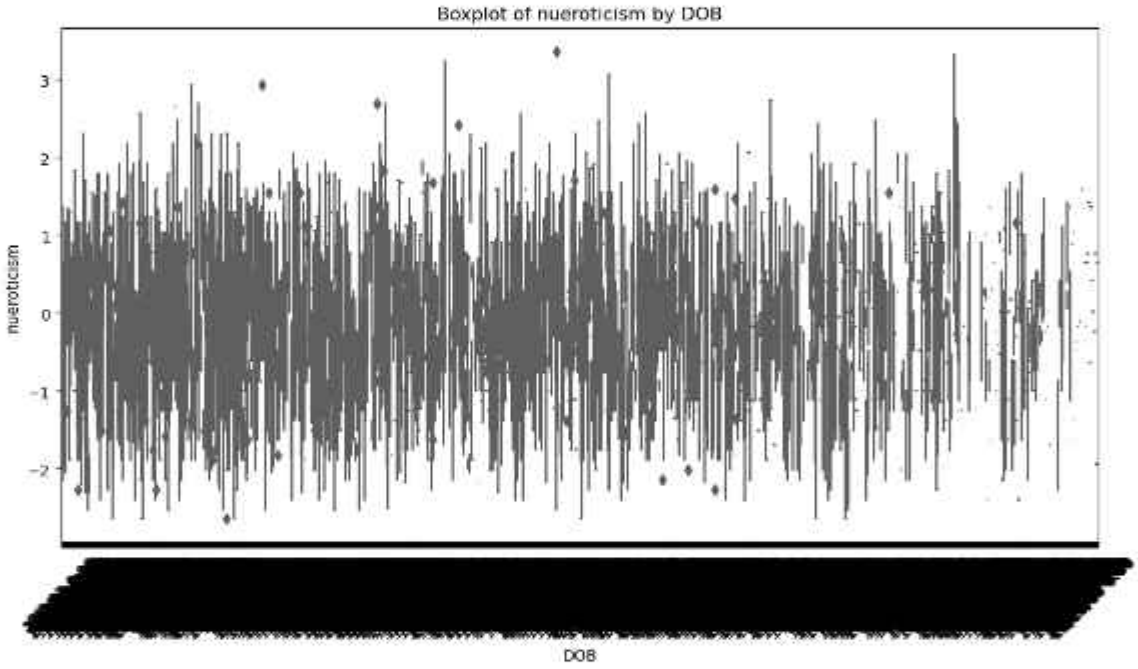

Boxplot of TelecomEngg by DOB
TelecomEngg
0
100
200
300
400
500
DOB

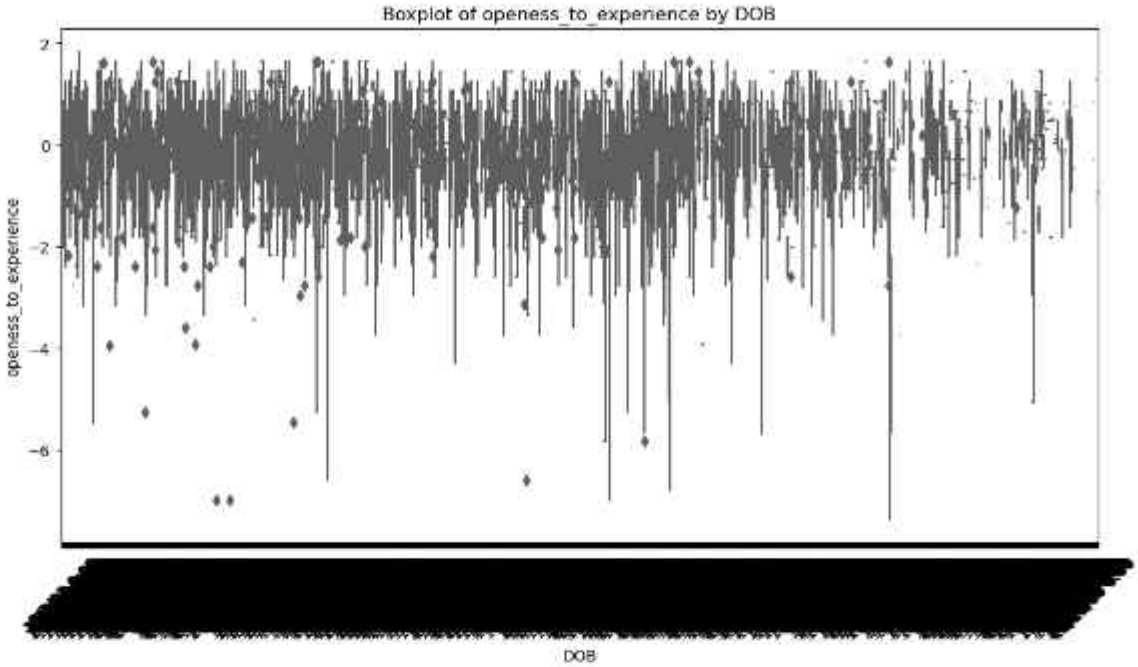

Boxplot of CivilEngg by DOB
CivilEngg
0
100
200
300
400
500
DOB

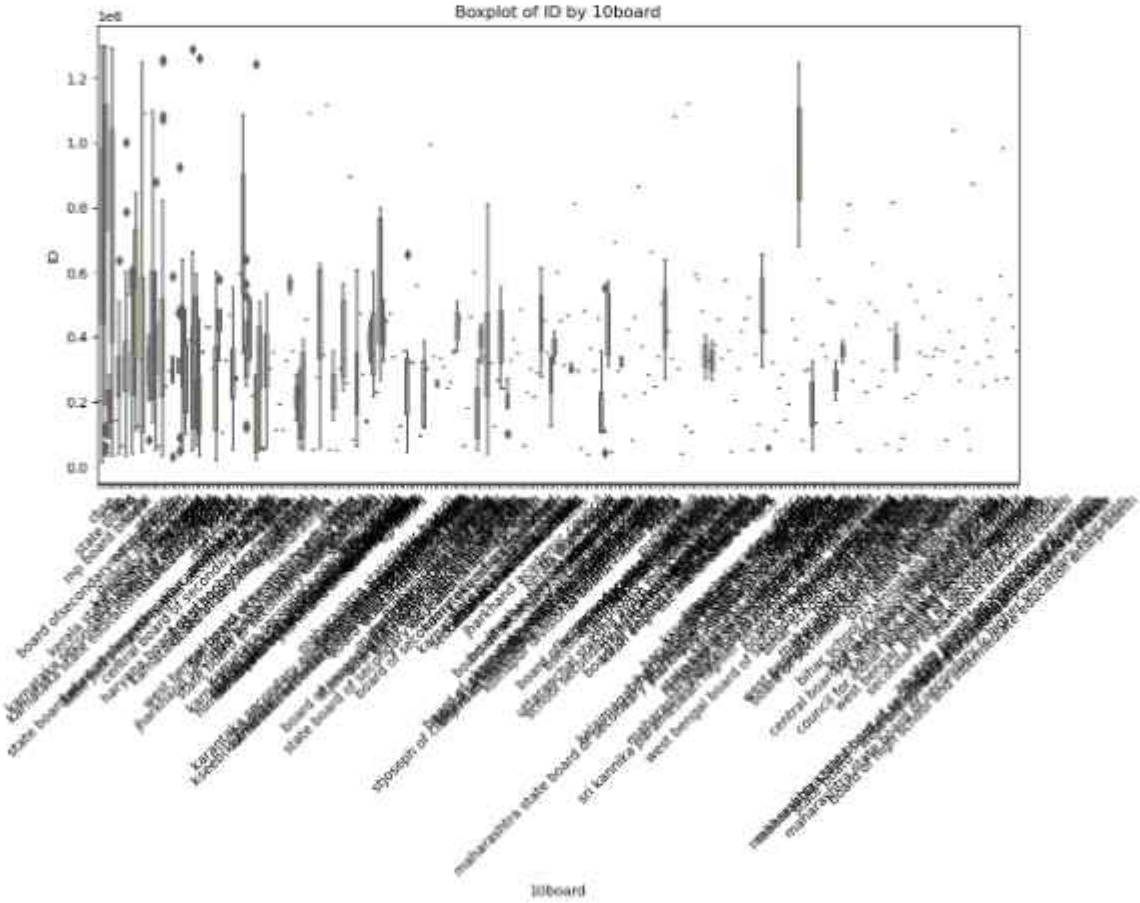

Boxplot of conscientiousness by DOB
conscientiousness
2
1
0
−1
−2
−3
−4
DOB

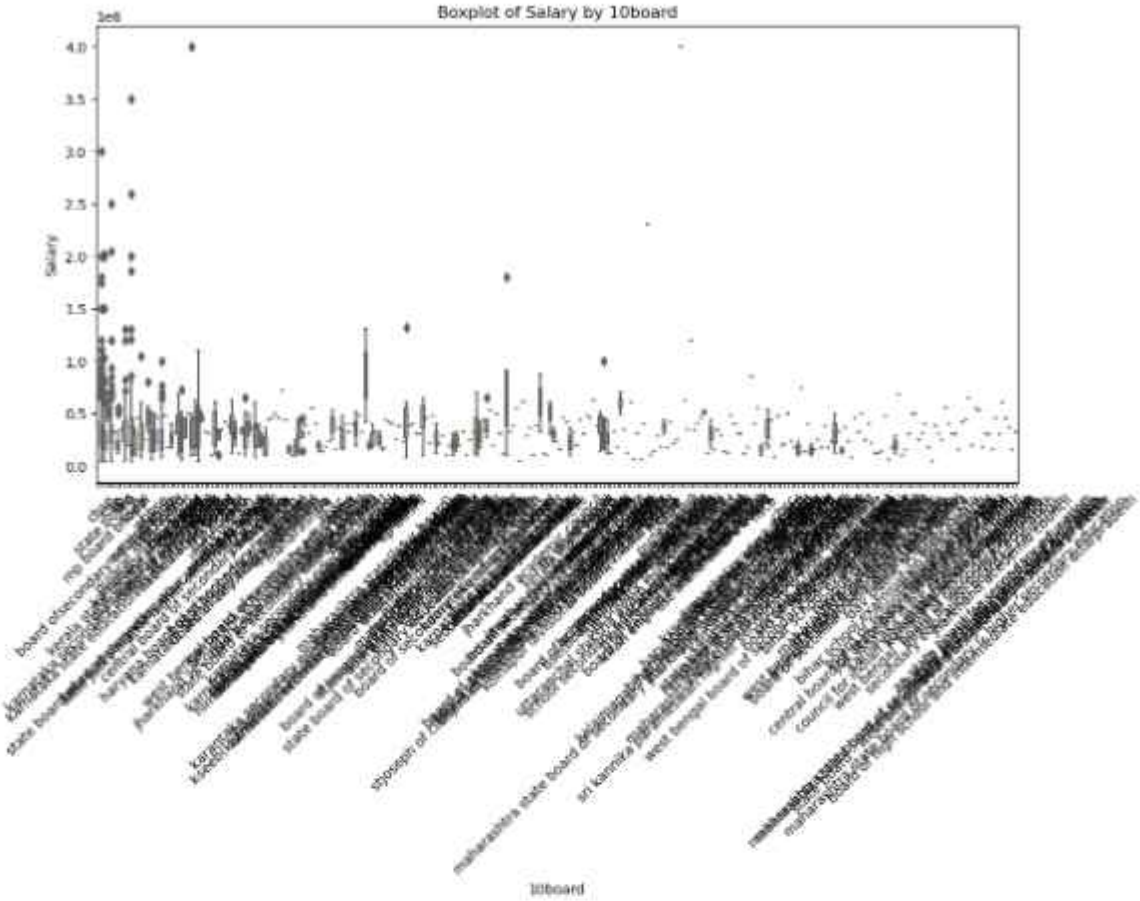

Boxplot of agreeableness by DOB
agreeableness
2
1
0
−1
−2
−3
−4
−5
−6
DOB

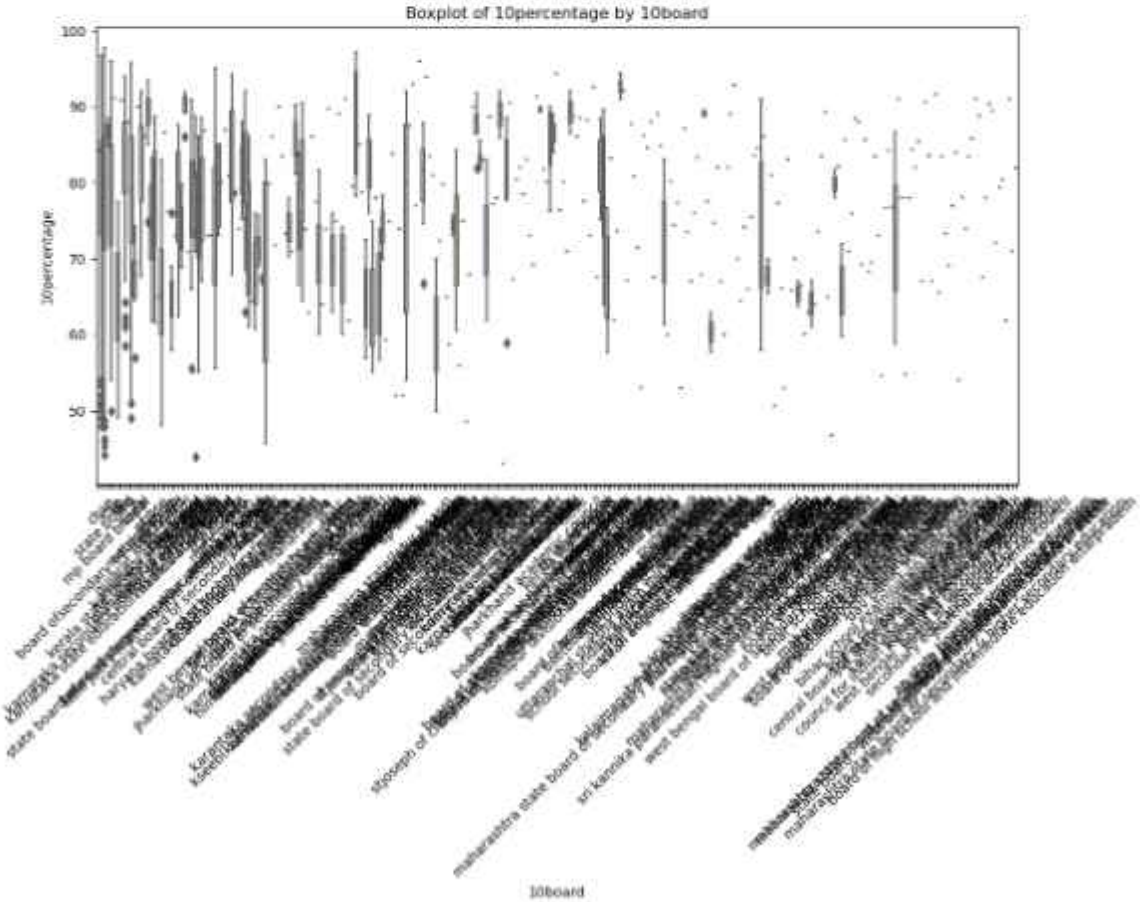

Boxplot of extraversion by DOB
extraversion
2
1
0
−1
−2
−3
−4
DOB

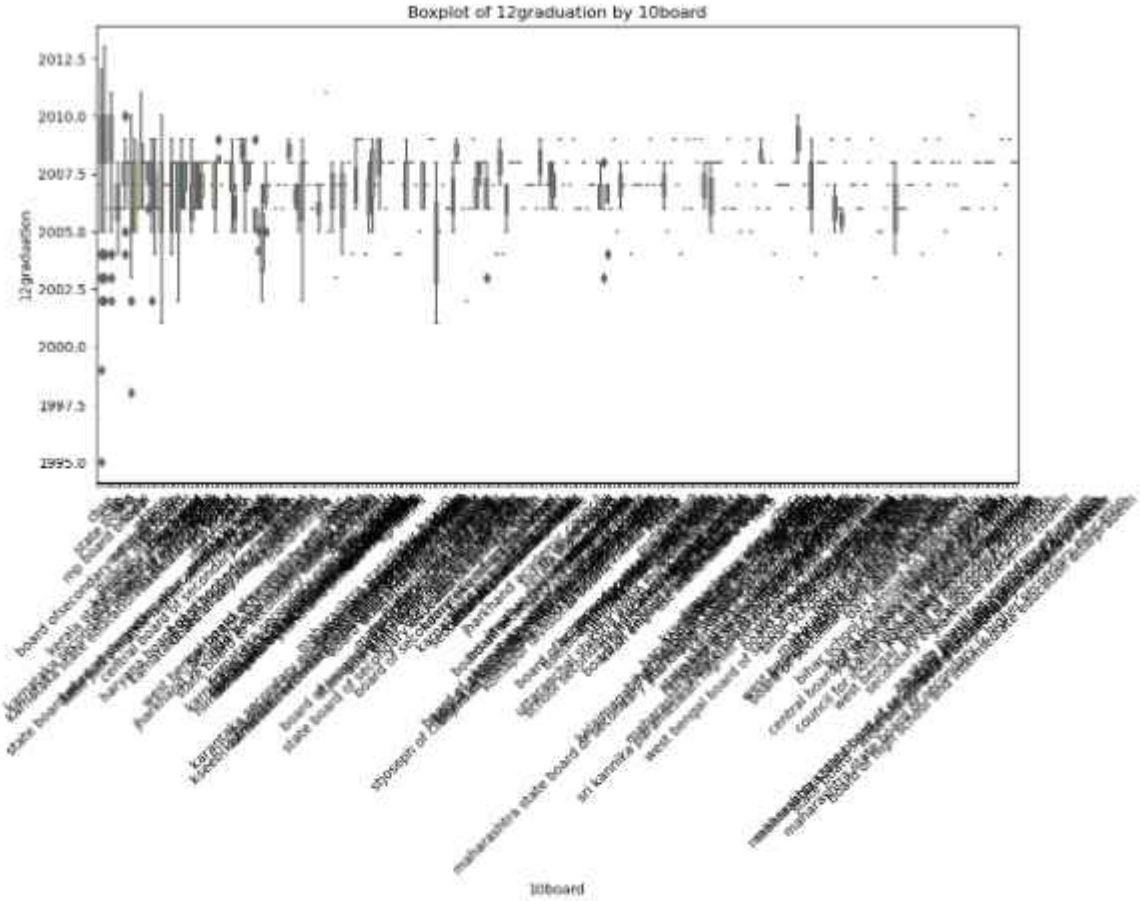

Boxplot of nueroticism by DOB
nueroticism
3
2
1
0
−1
−2
DOB

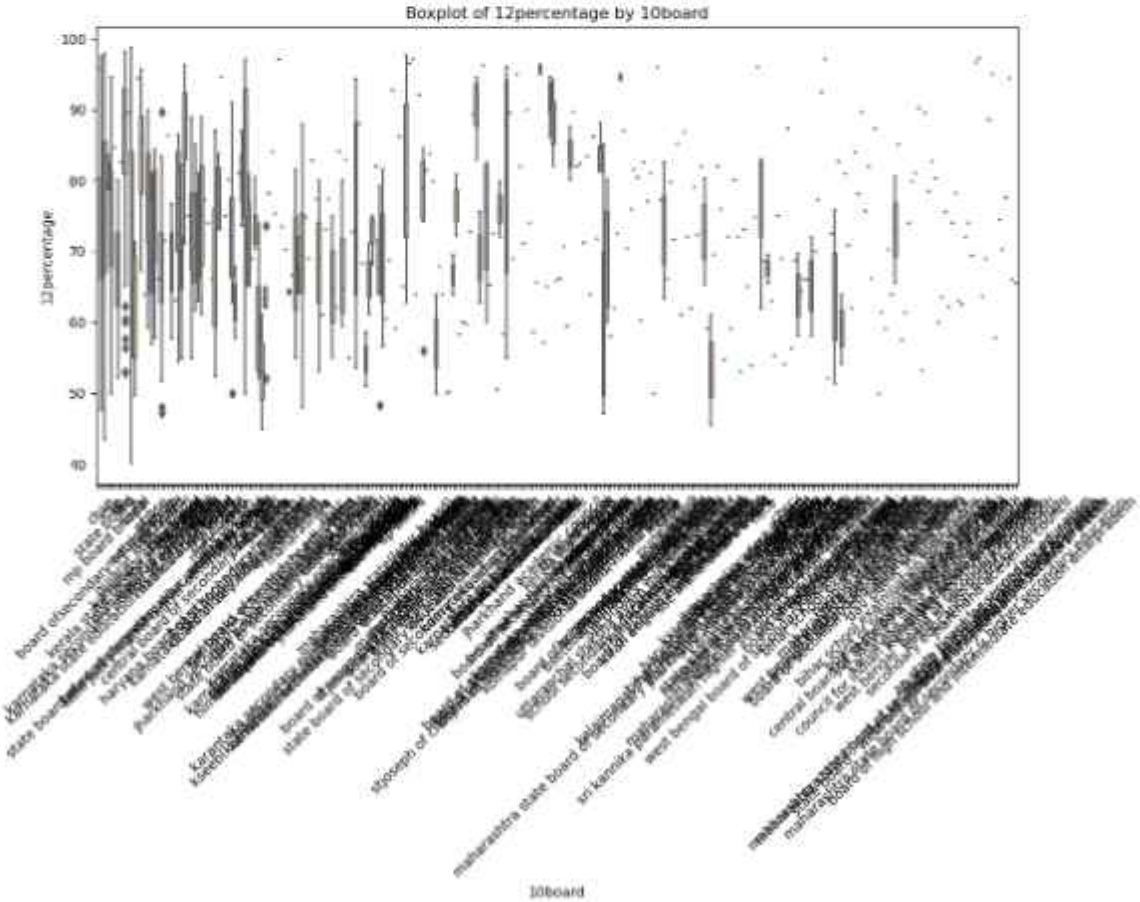

Boxplot of openess_to_experience by DOB
openess_to_experience
2
0
−2
−4
−6
DOB

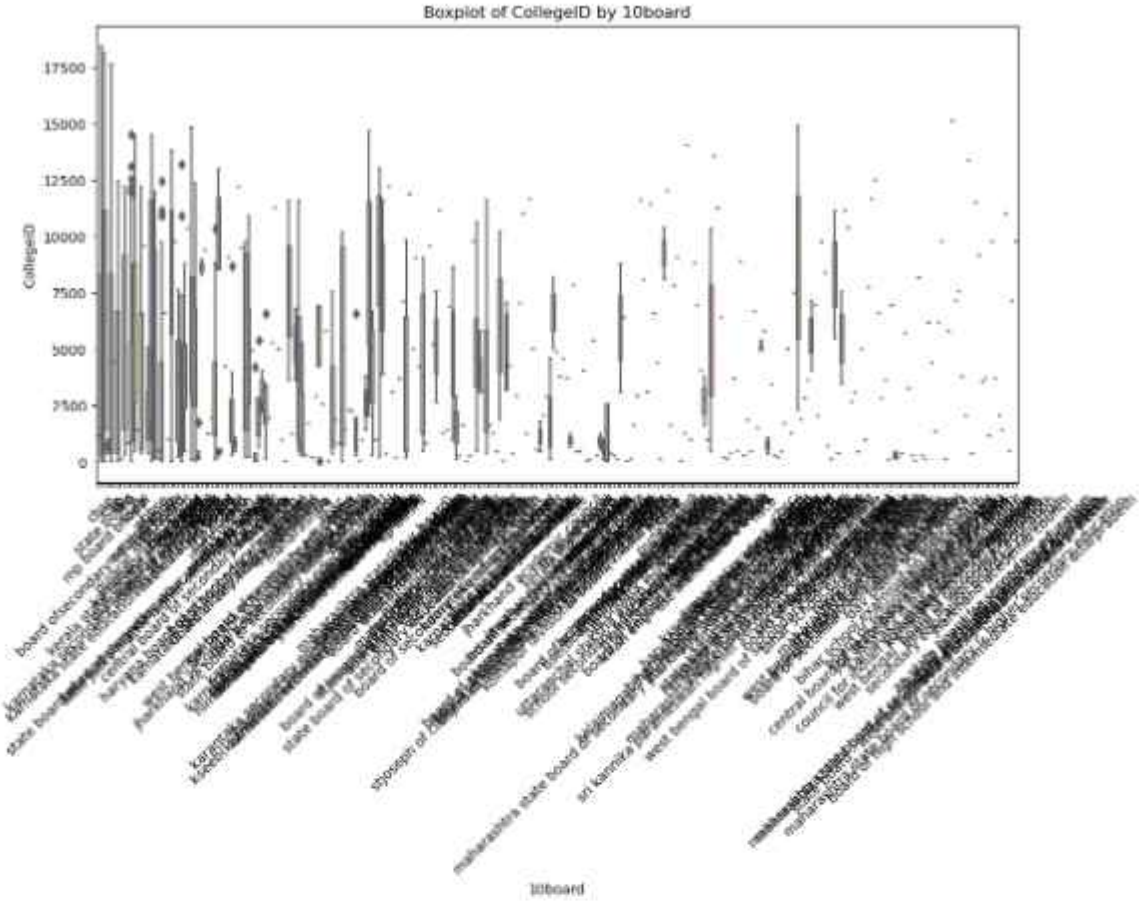

Boxplot of ID by 10board
1e6
1.2
1.0
0.8
0.6
0.4
0.2
0.0
ID
10board

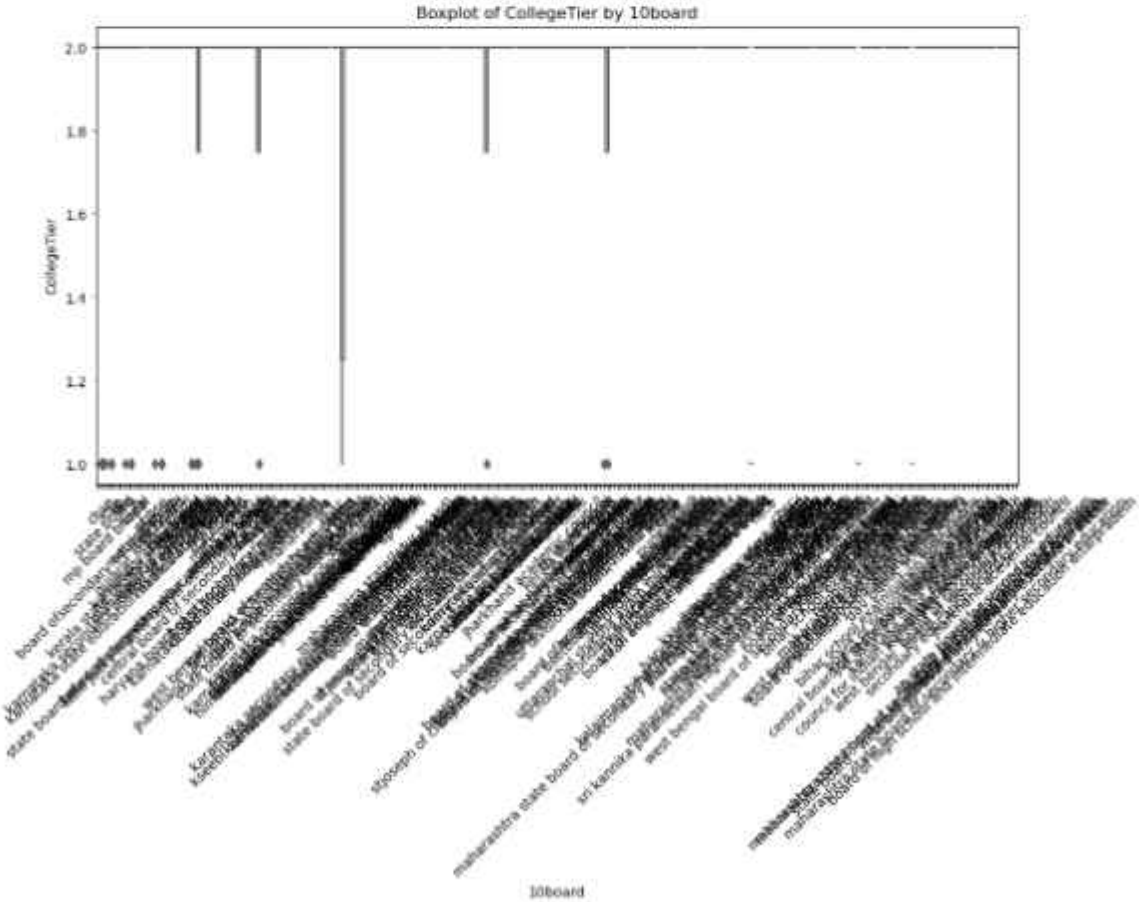

Boxplot of Salary by 10board
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
10board

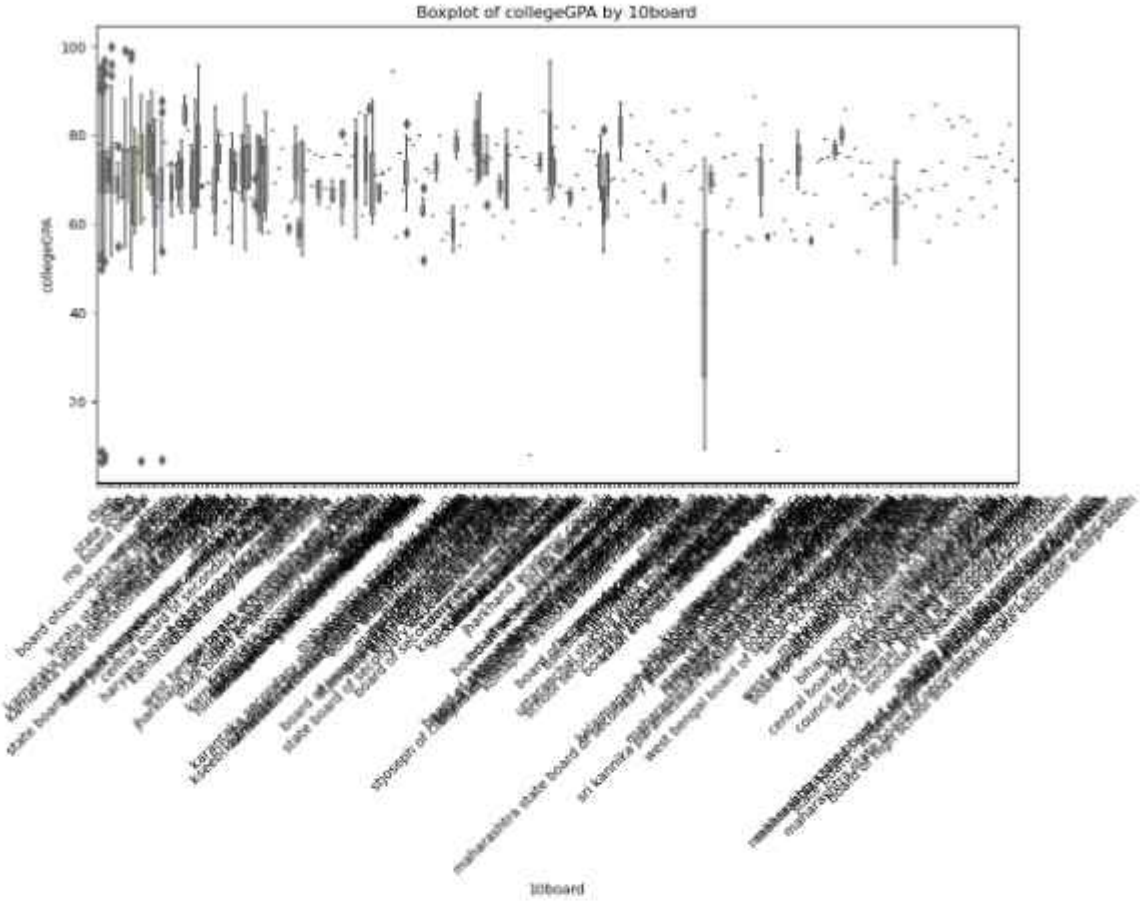

Boxplot of 10percentage by 10board
100
90
80
70
60
50
10percentage
10board

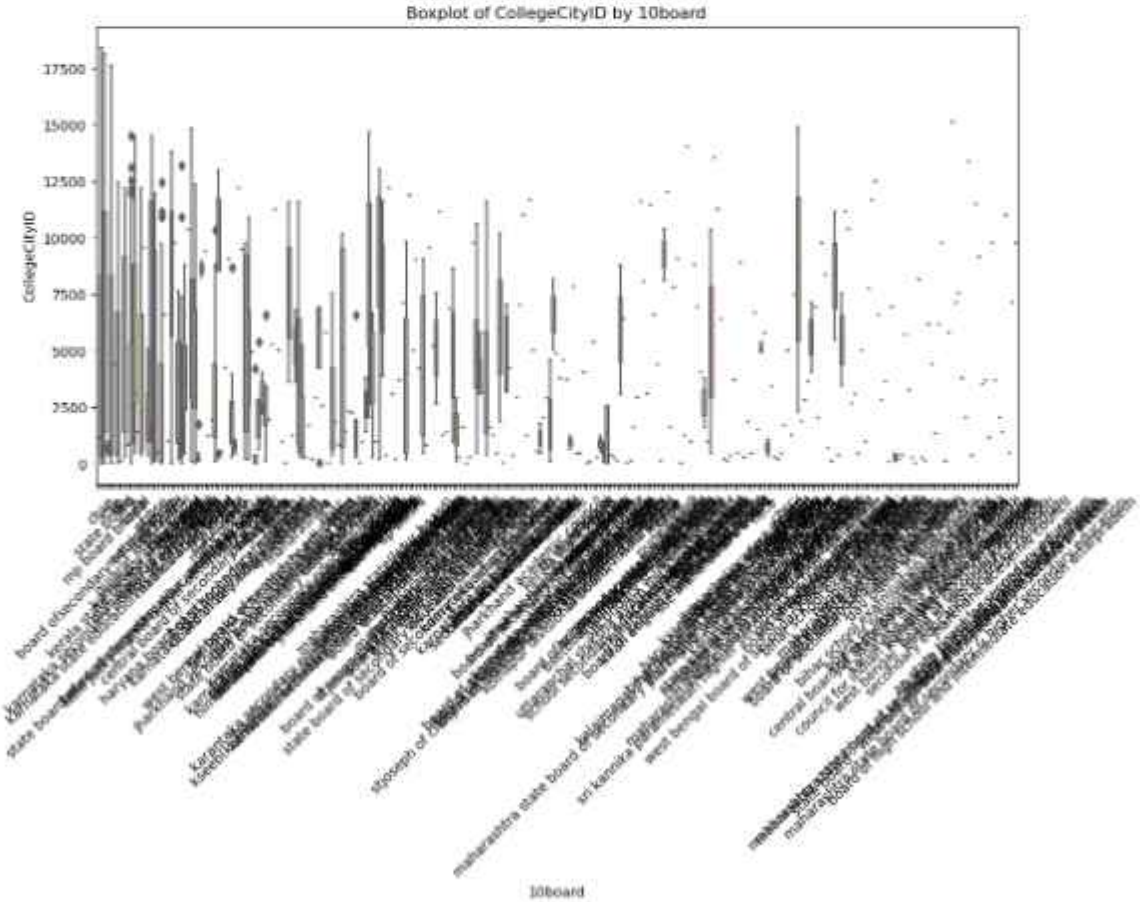

Boxplot of 12graduation by 10board
12graduation
2012.5
2010.0
2007.5
2005.0
2002.5
2000.0
1997.5
1995.0
10board

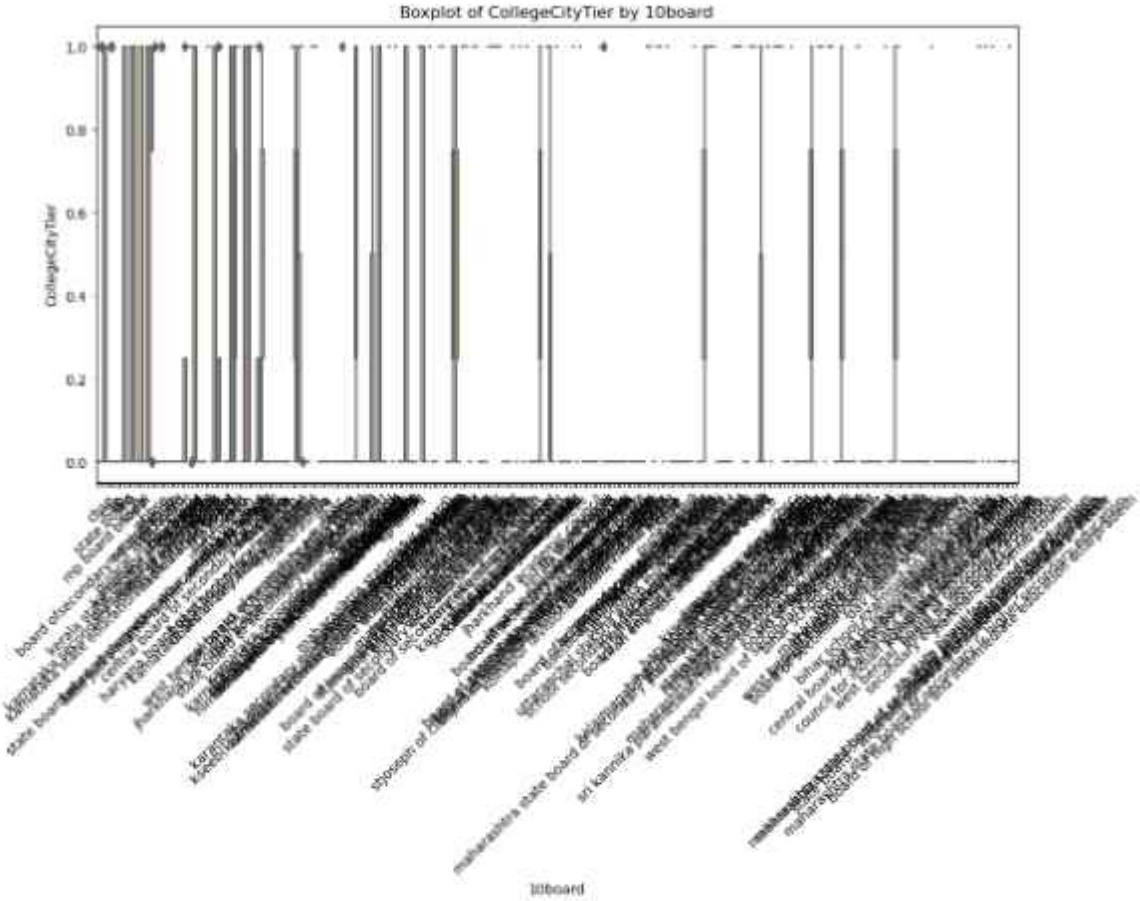

Boxplot of 12percentage by 10board
12percentage
100
90
80
70
60
50
40
10board

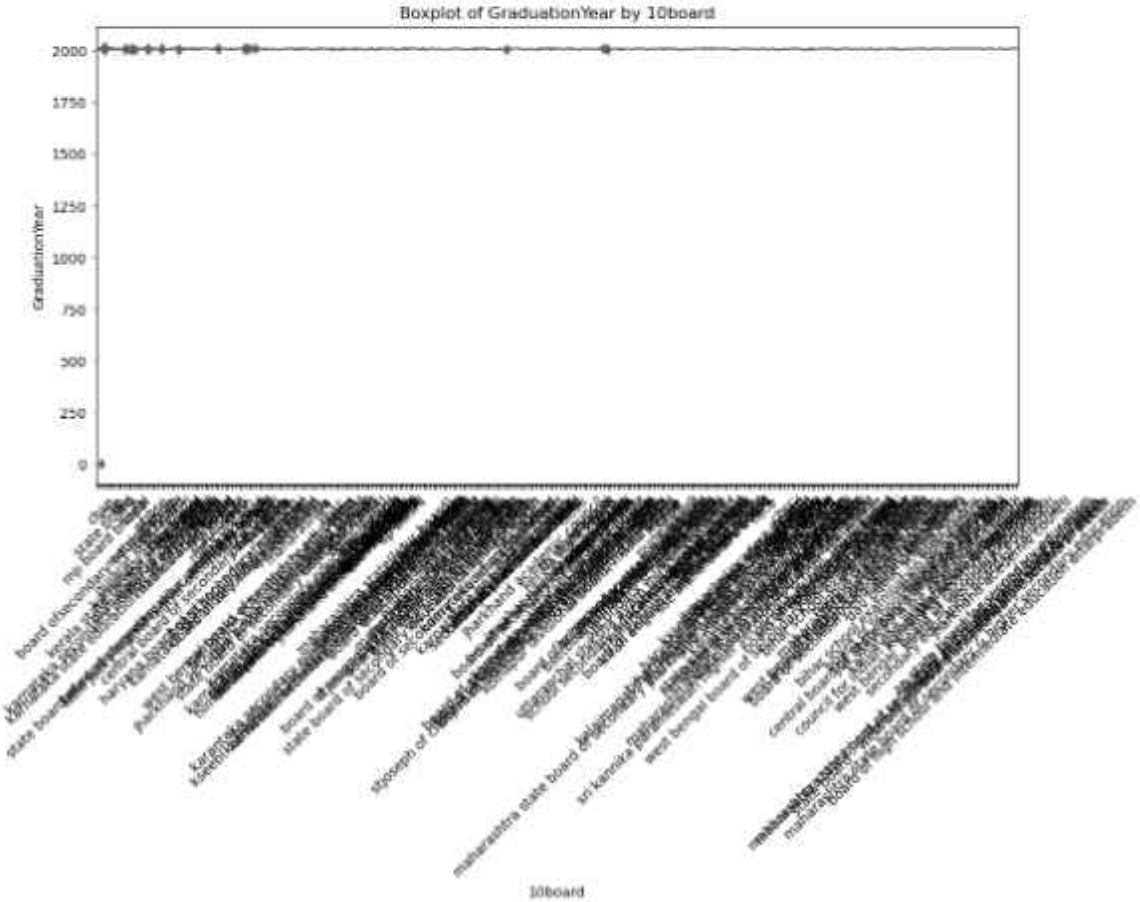

Boxplot of CollegeID by 10board
CollegeID
17500
15000
12500
10000
7500
5000
2500
0
10board

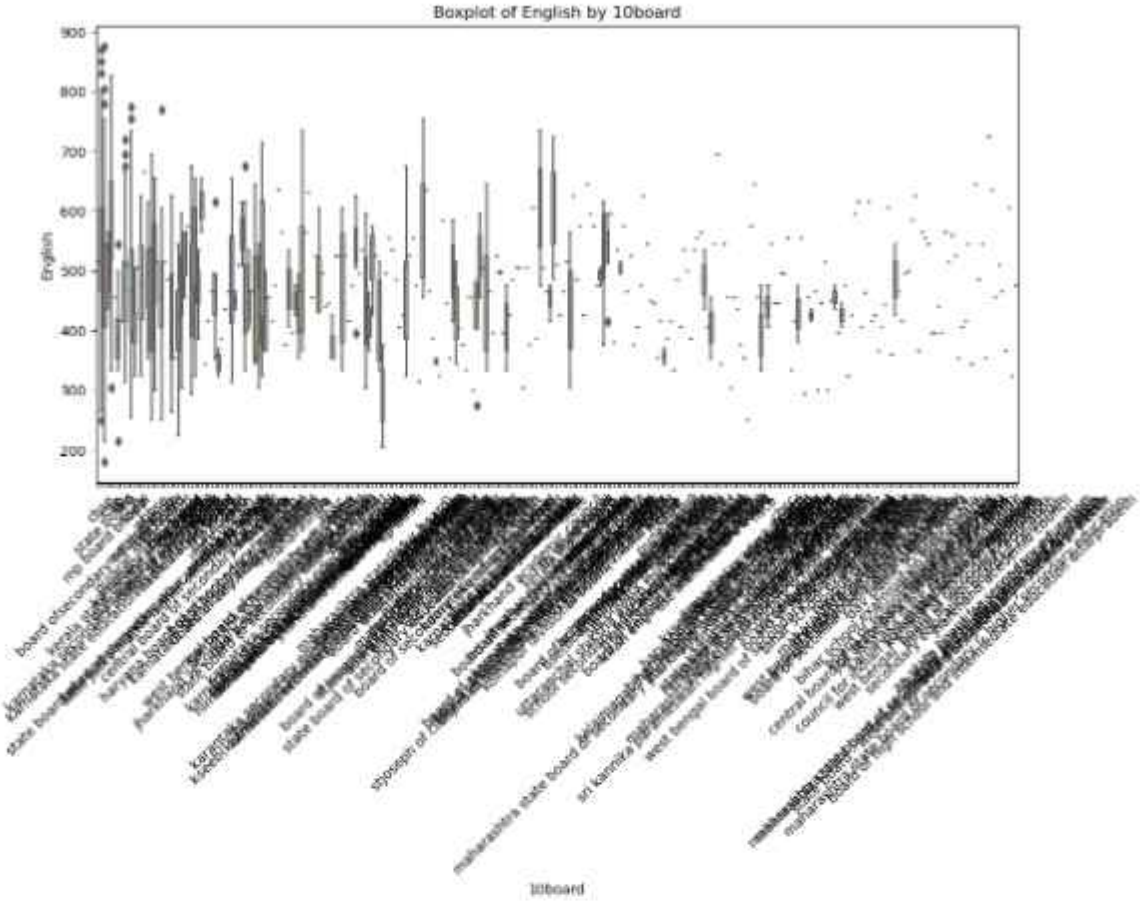

Boxplot of CollegeTier by 10board
CollegeTier
2.0
1.8
1.6
1.4
1.2
1.0
10board

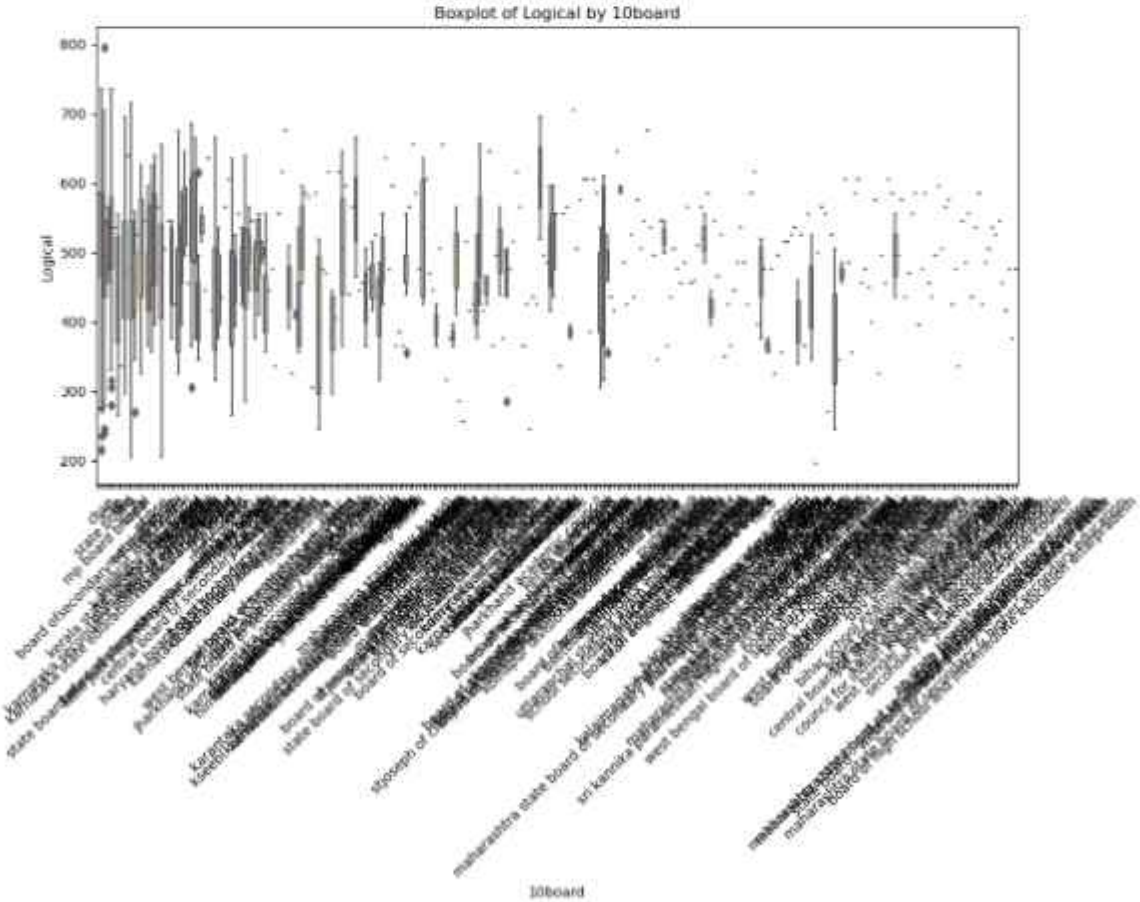

Boxplot of collegeGPA by 10board
collegeGPA
100
80
60
40
20
10board

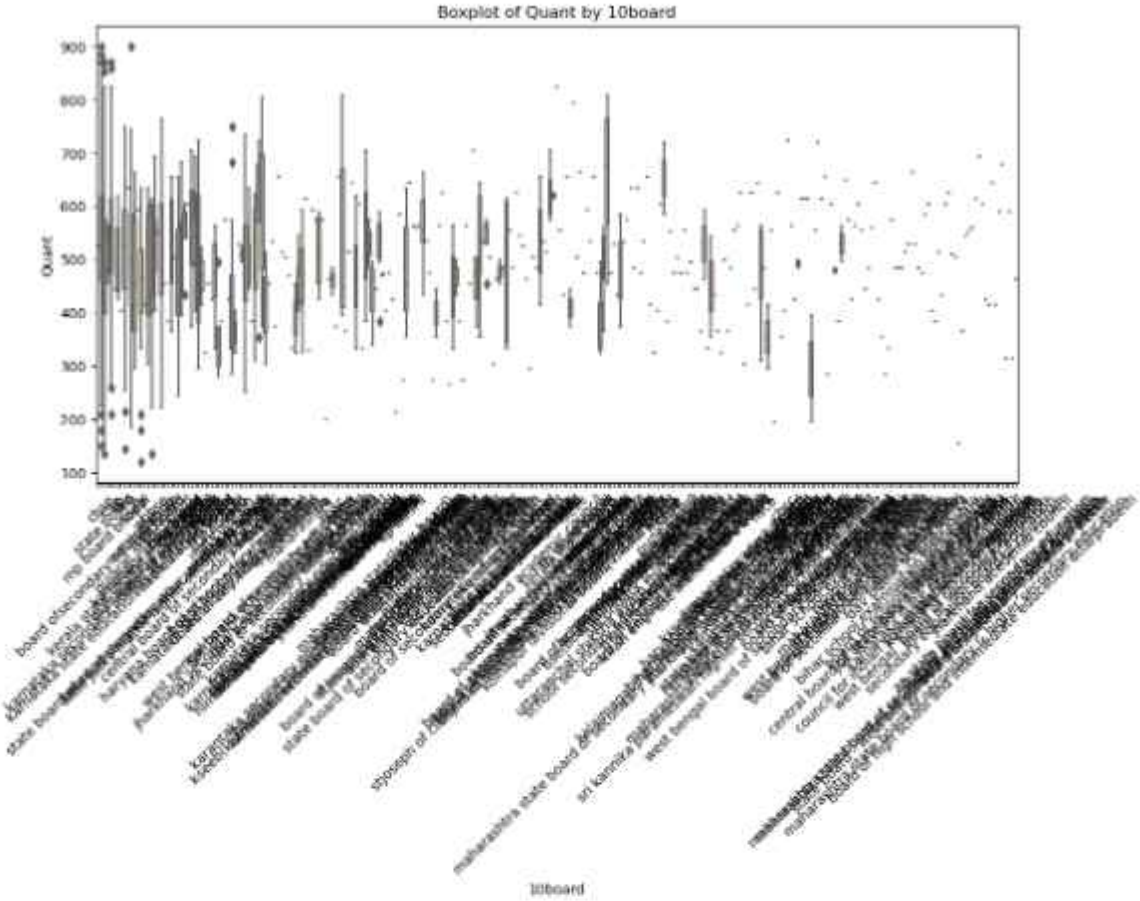

Boxplot of CollegeCityID by 10board
CollegeCityID
17500
15000
12500
10000
7500
5000
2500
0
10board

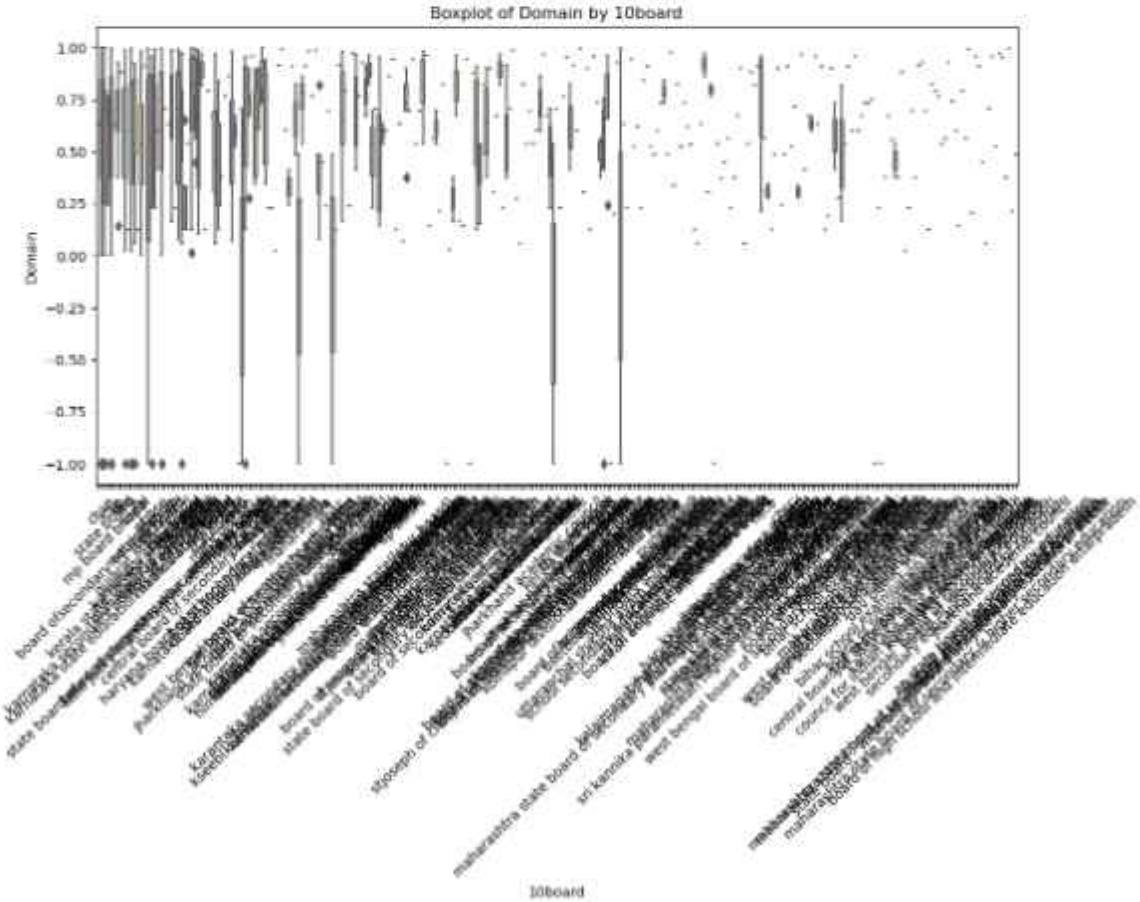

Boxplot of CollegeCityTier by 10board
CollegeCityTier
1.0
0.8
0.6
0.4
0.2
0.0
10board

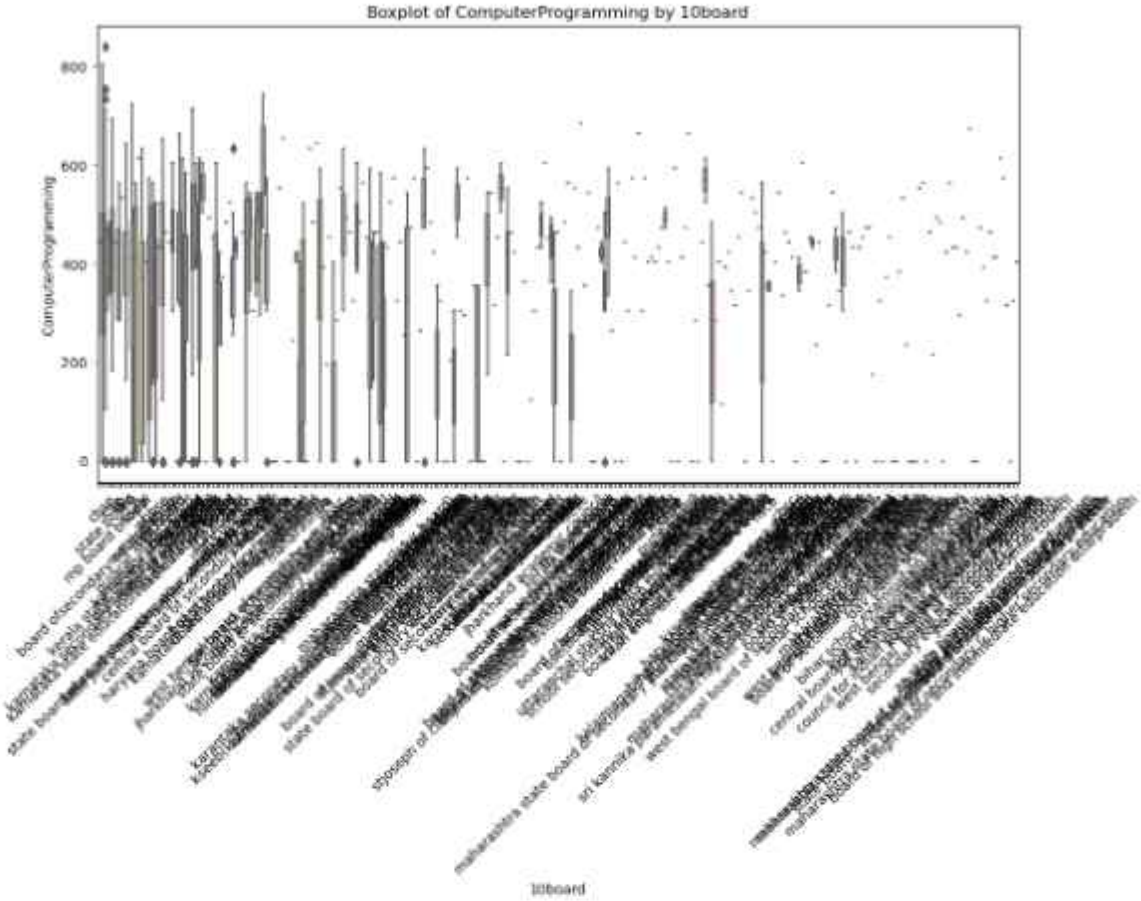

Boxplot of GraduationYear by 10board
GraduationYear
2000
1750
1500
1250
1000
750
500
250
0
10board

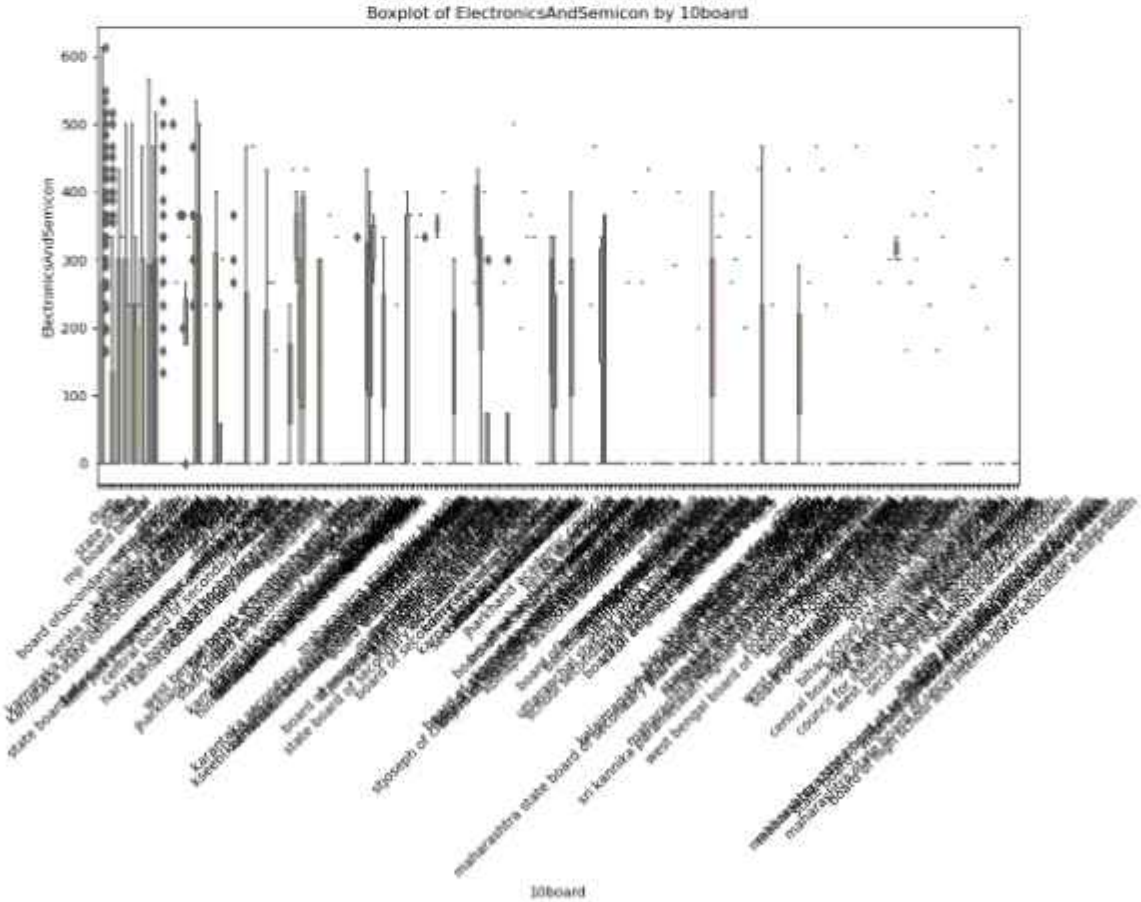

Boxplot of English by 10board
English
900
800
700
600
500
400
300
200
10board

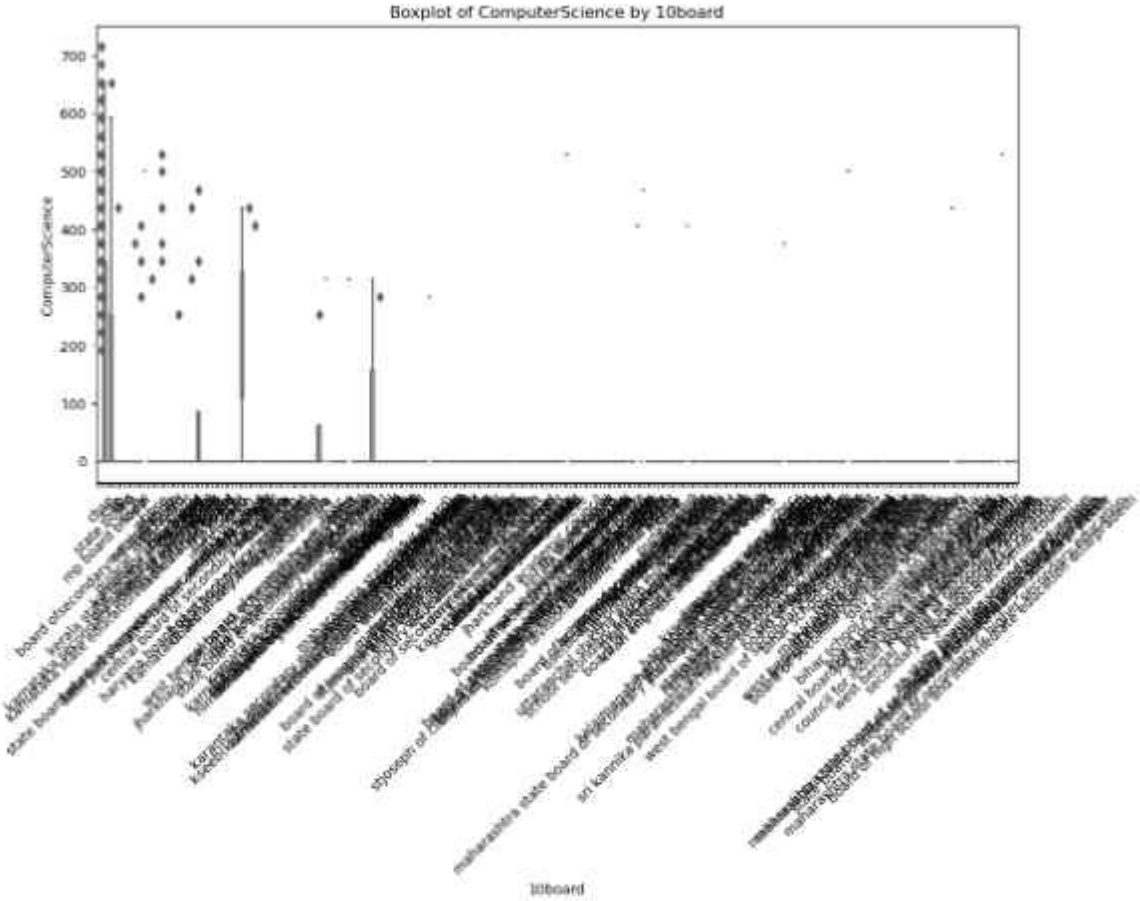

Boxplot of Logical by 10board
Logical
800
700
600
500
400
300
200
10board

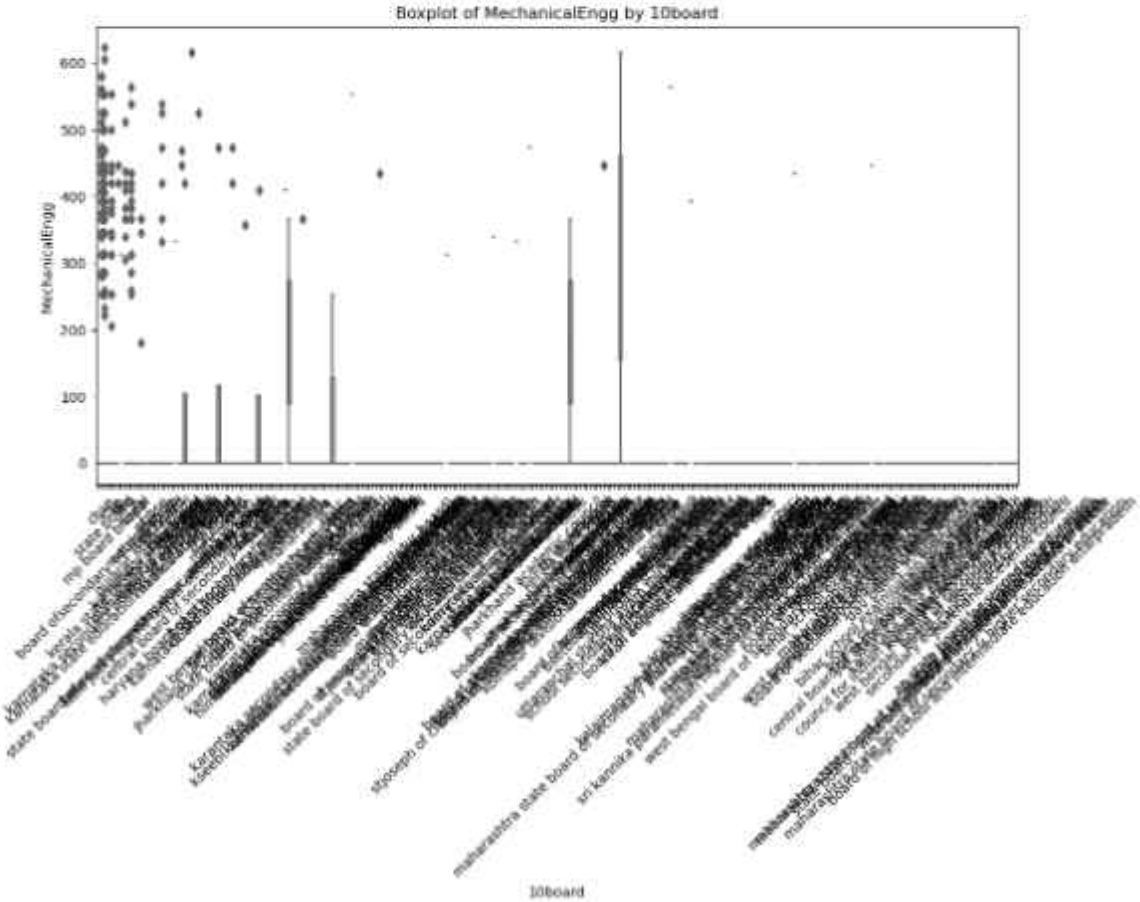

Boxplot of Quant by 10board
Quant
10board

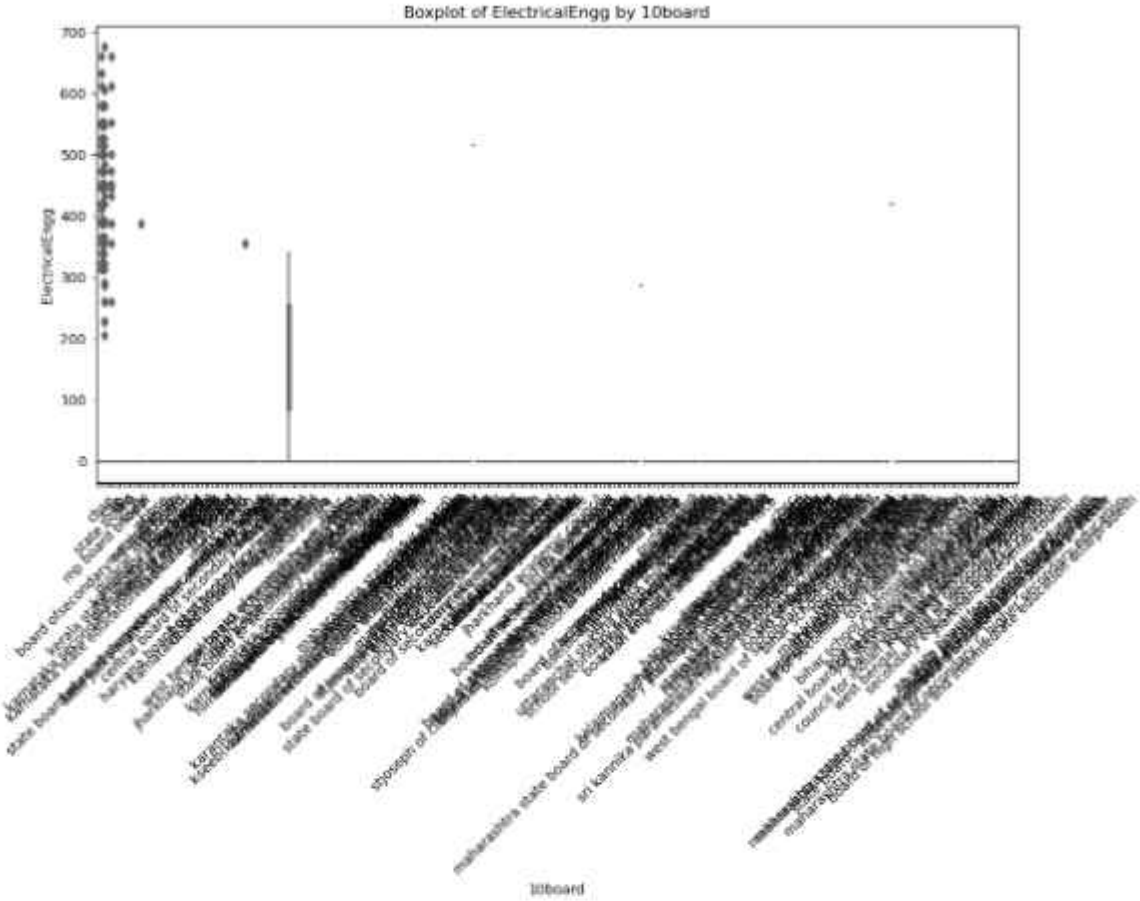

Boxplot of Domain by 10board
Domain
10board

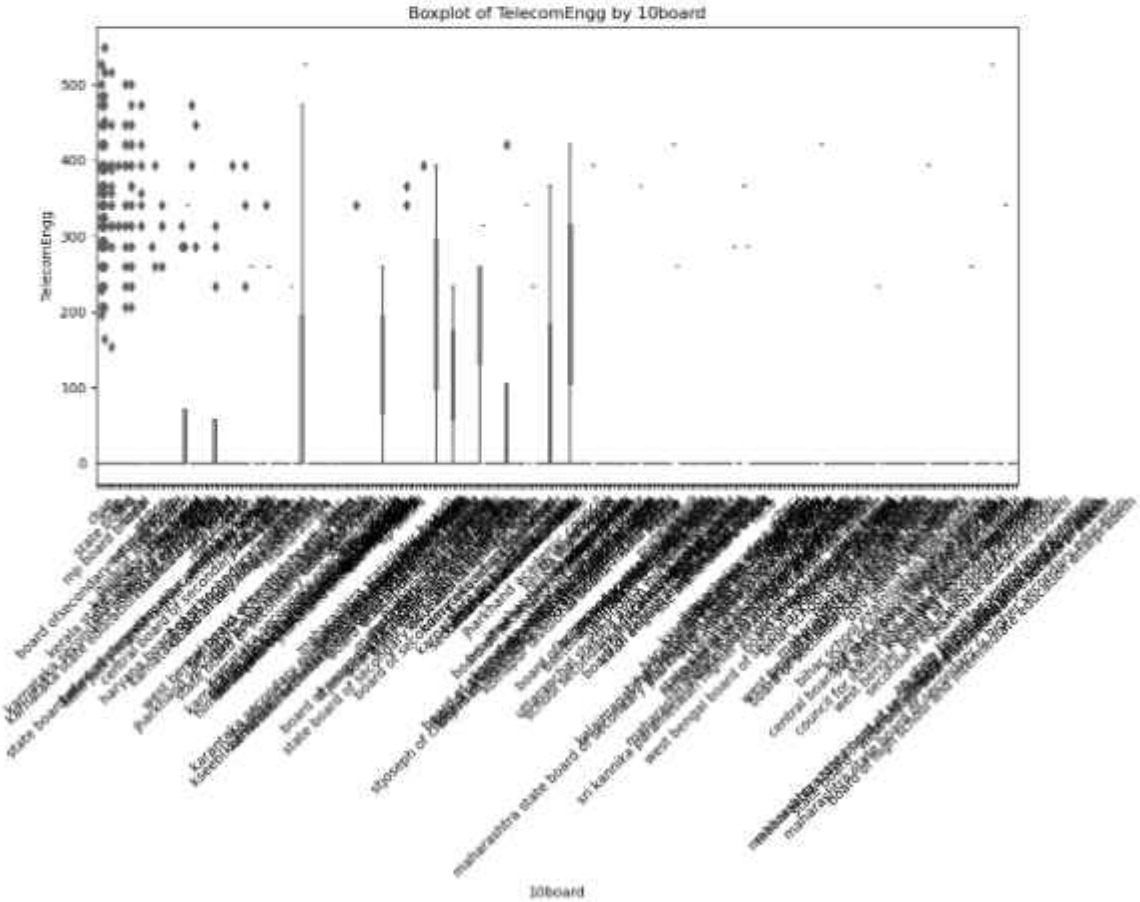

Boxplot of ComputerProgramming by 10board
ComputerProgramming
10board

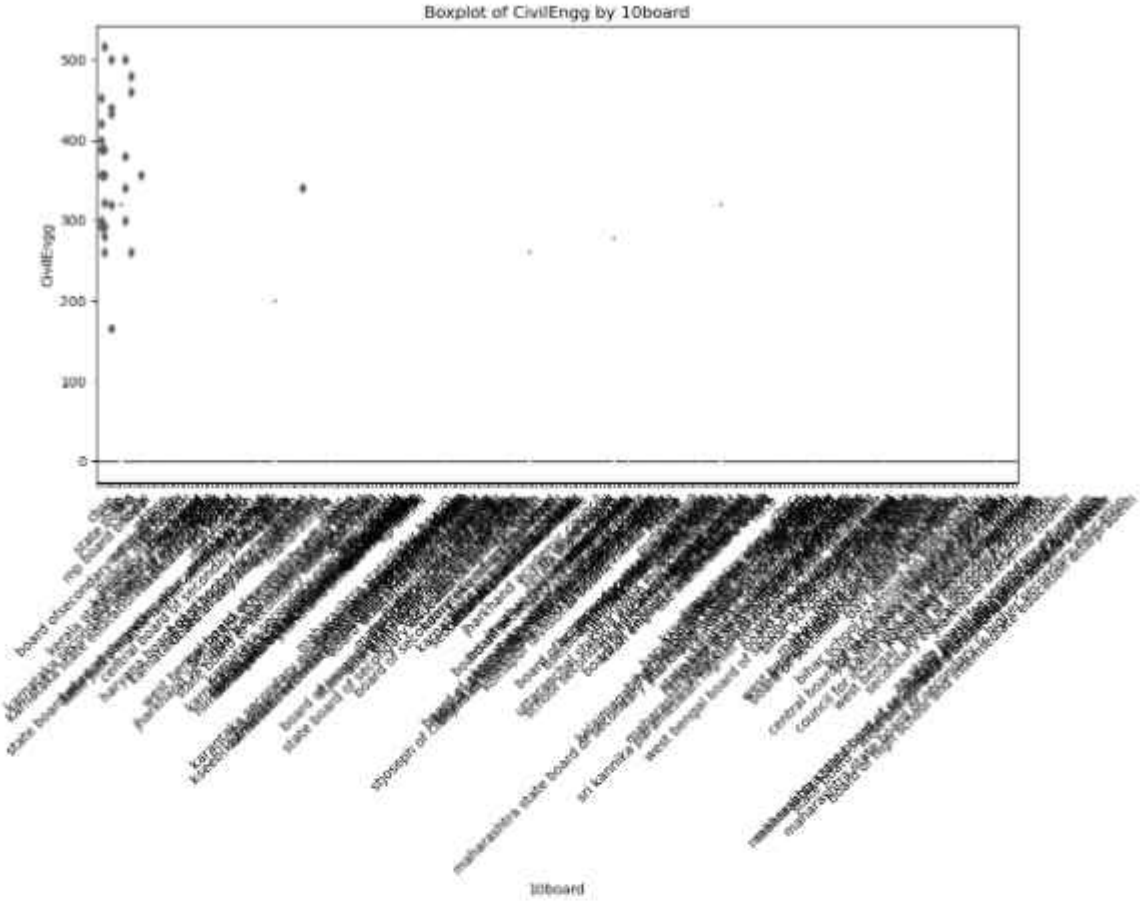

Boxplot of ElectronicsAndSemicon by 10board
ElectronicsAndSemicon
10board

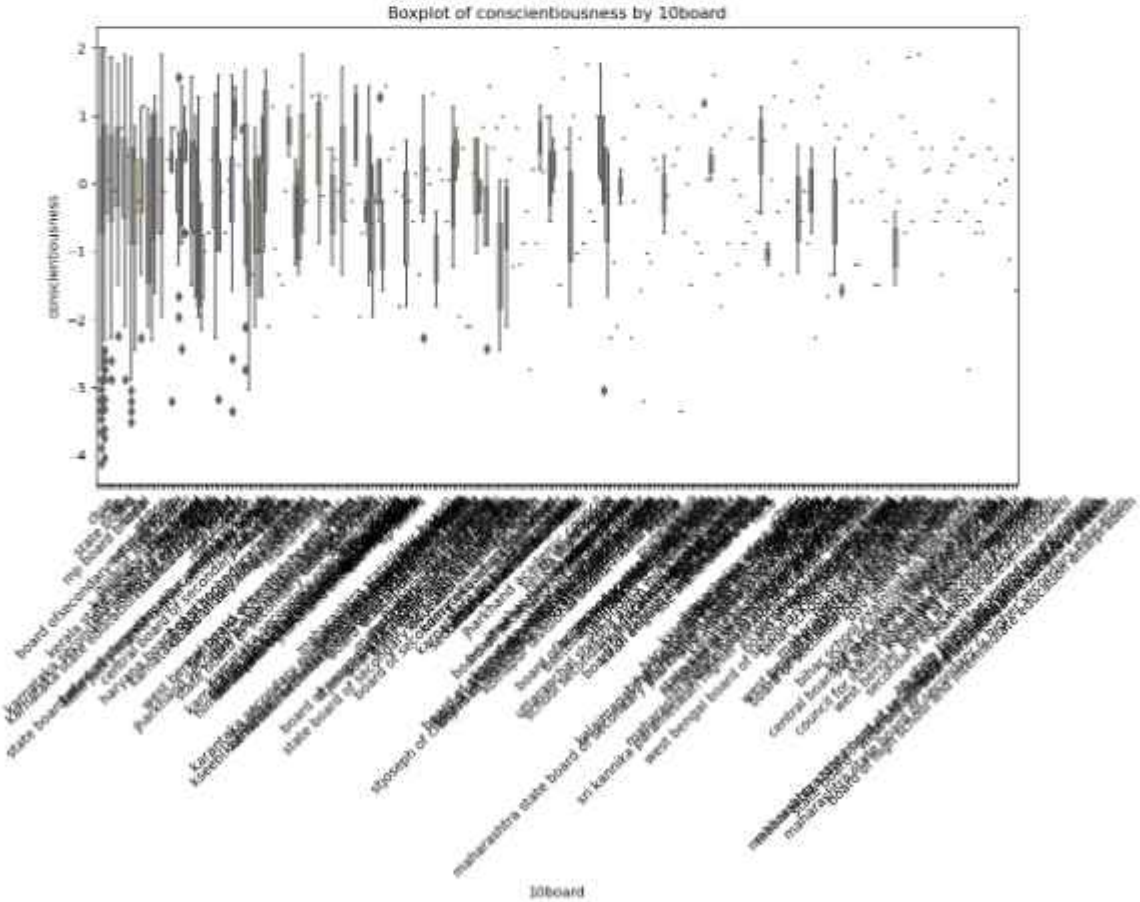

Boxplot of ComputerScience by 10board
ComputerScience
0
100
200
300
400
500
600
700
10board

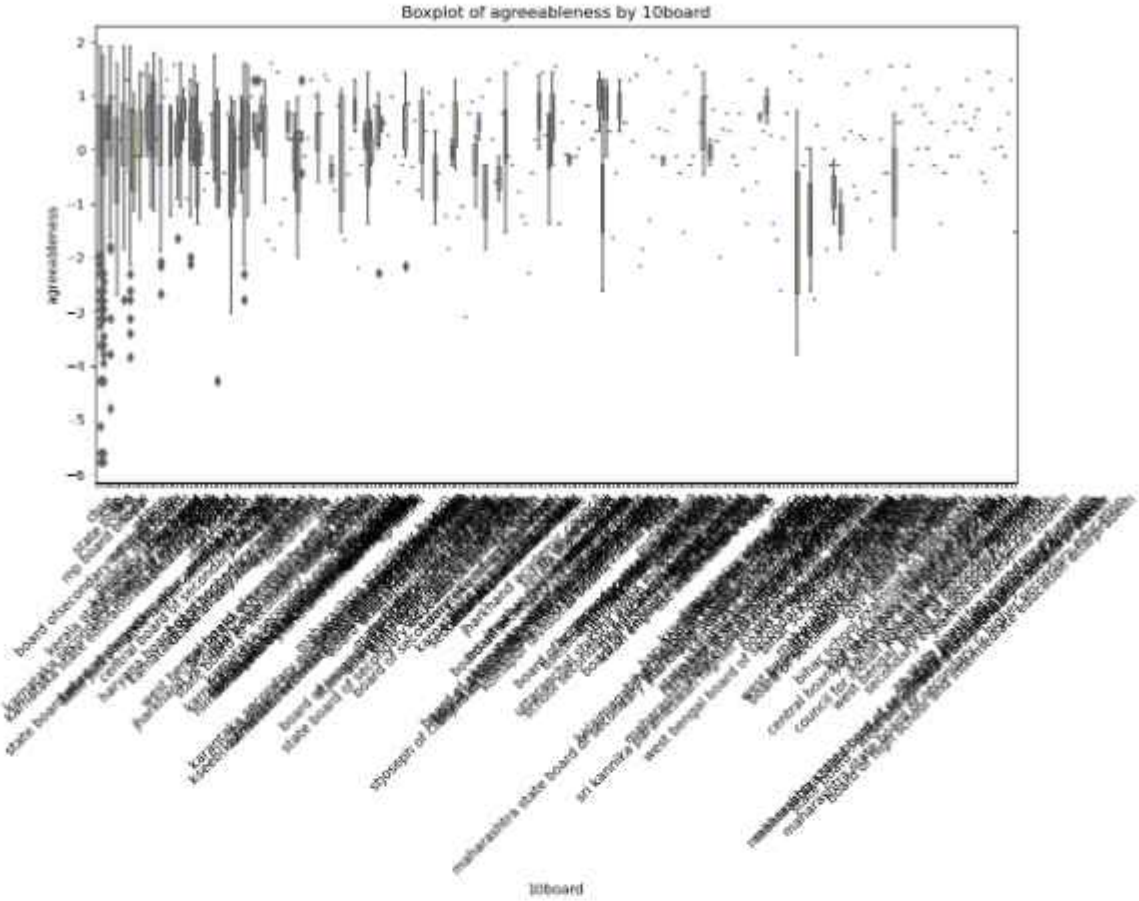

Boxplot of MechanicalEngg by 10board
MechanicalEngg
0
100
200
300
400
500
600
10board

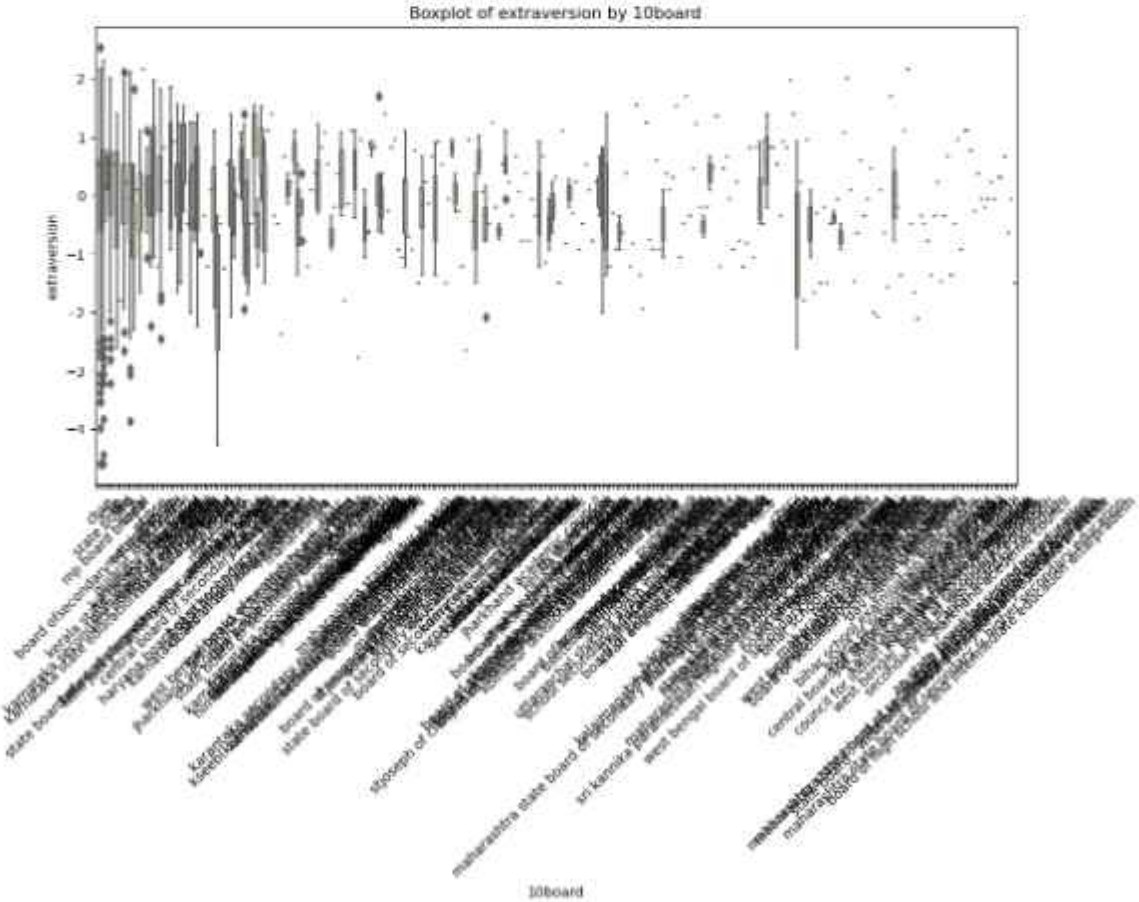

Boxplot of ElectricalEngg by 10board
ElectricalEngg
10board

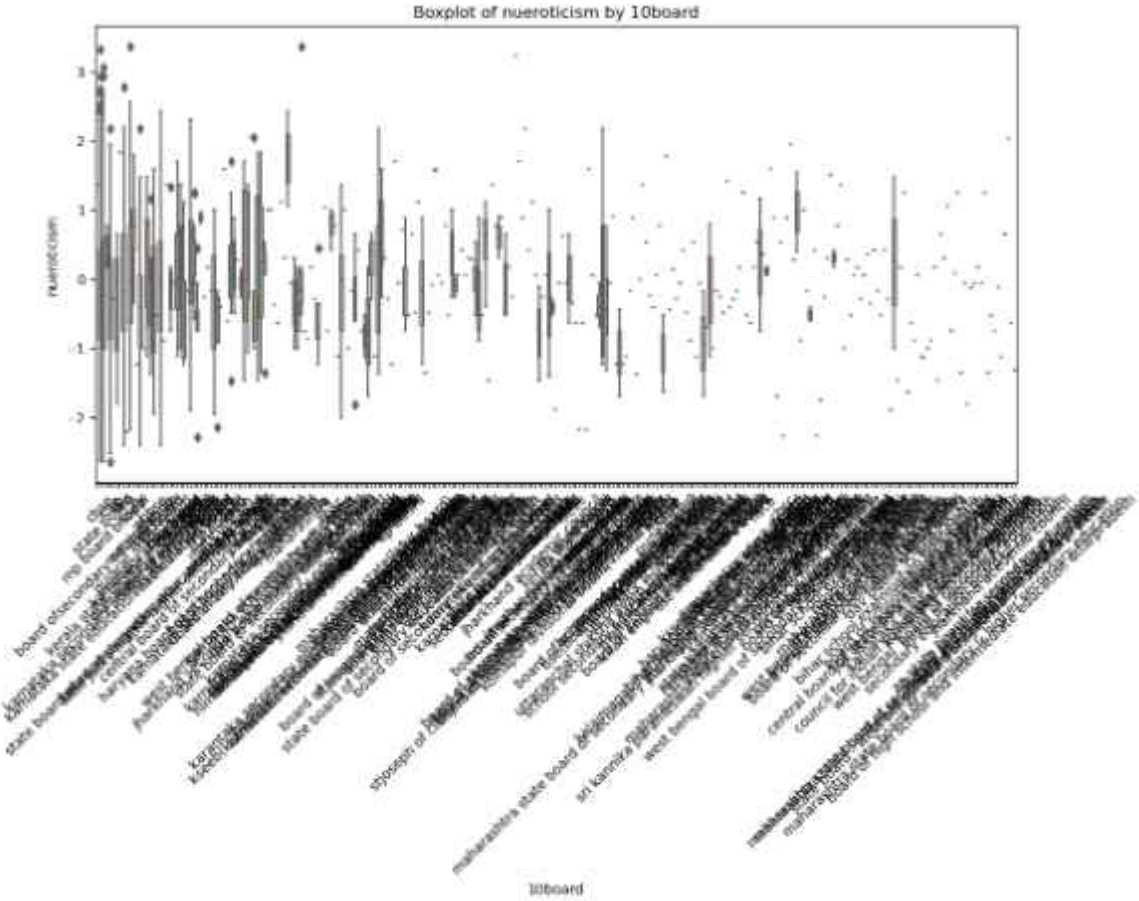

Boxplot of TelecomEngg by 10board
TelecomEngg
10board

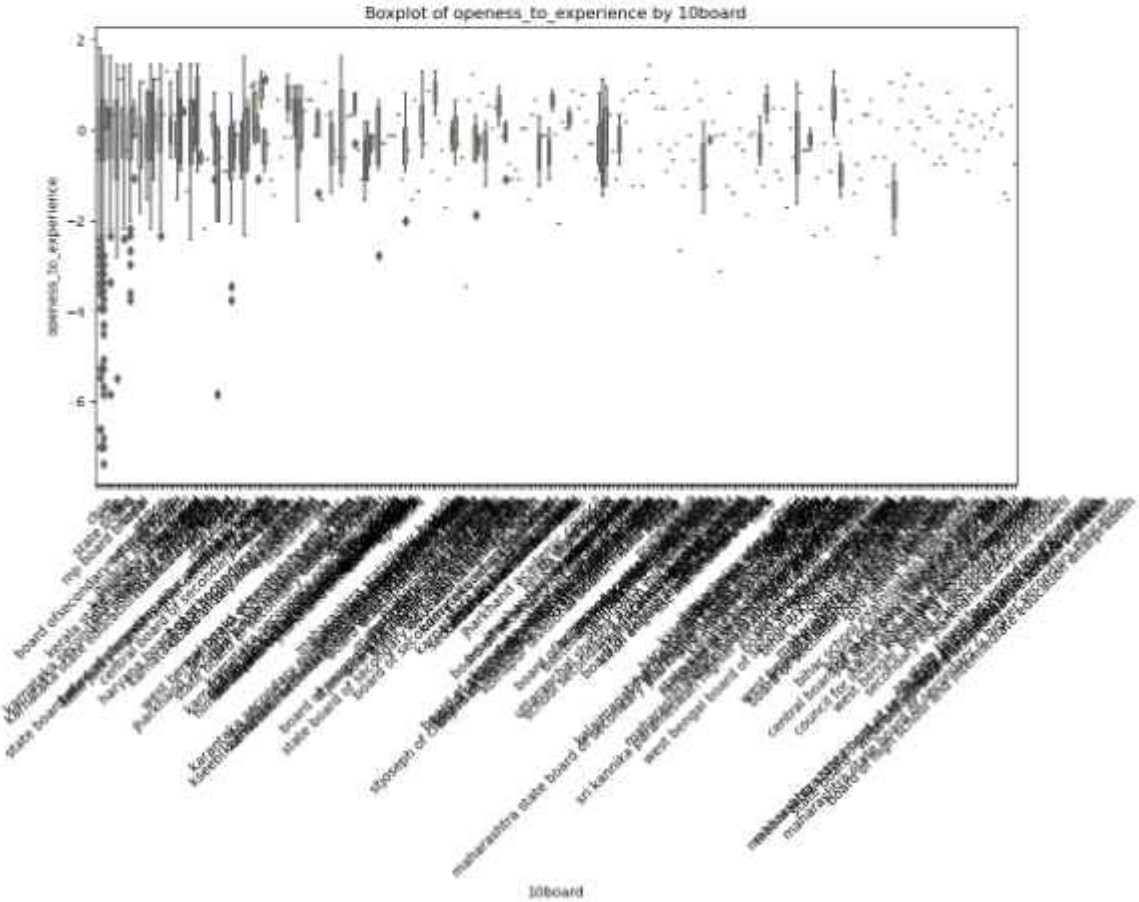

Boxplot of CivilEngg by 10board
CivilEngg
500
400
300
200
100
0
10board

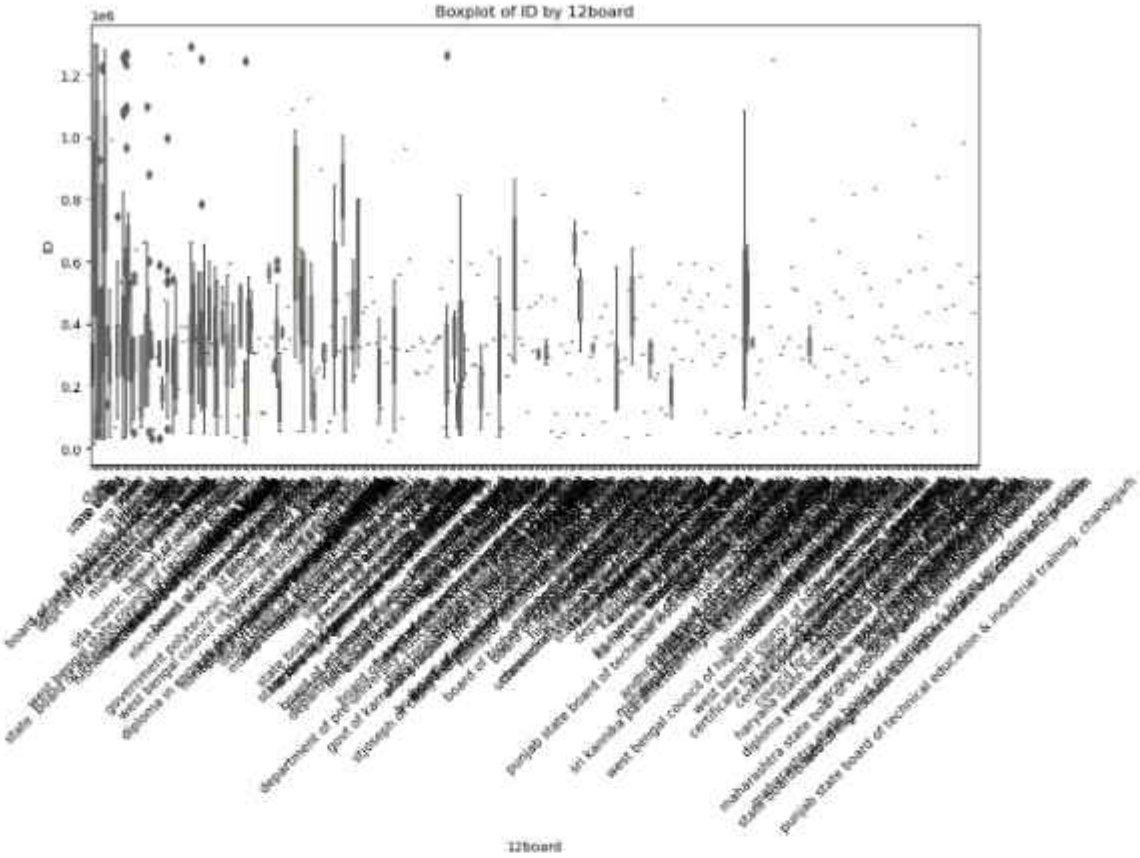

Boxplot of conscientiousness by 10board
conscientiousness
2
1
0
-1
-2
-3
-4
10board

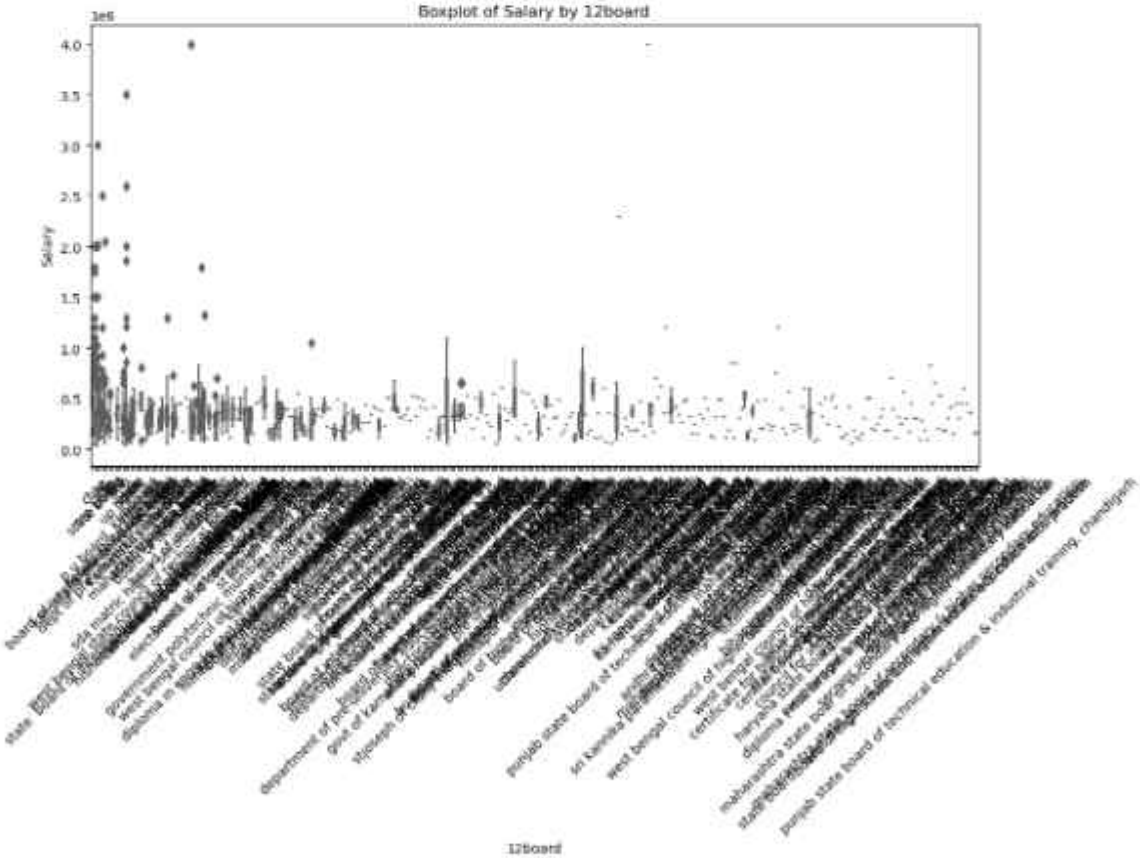

Boxplot of agreeableness by 10board
agreeableness
10board

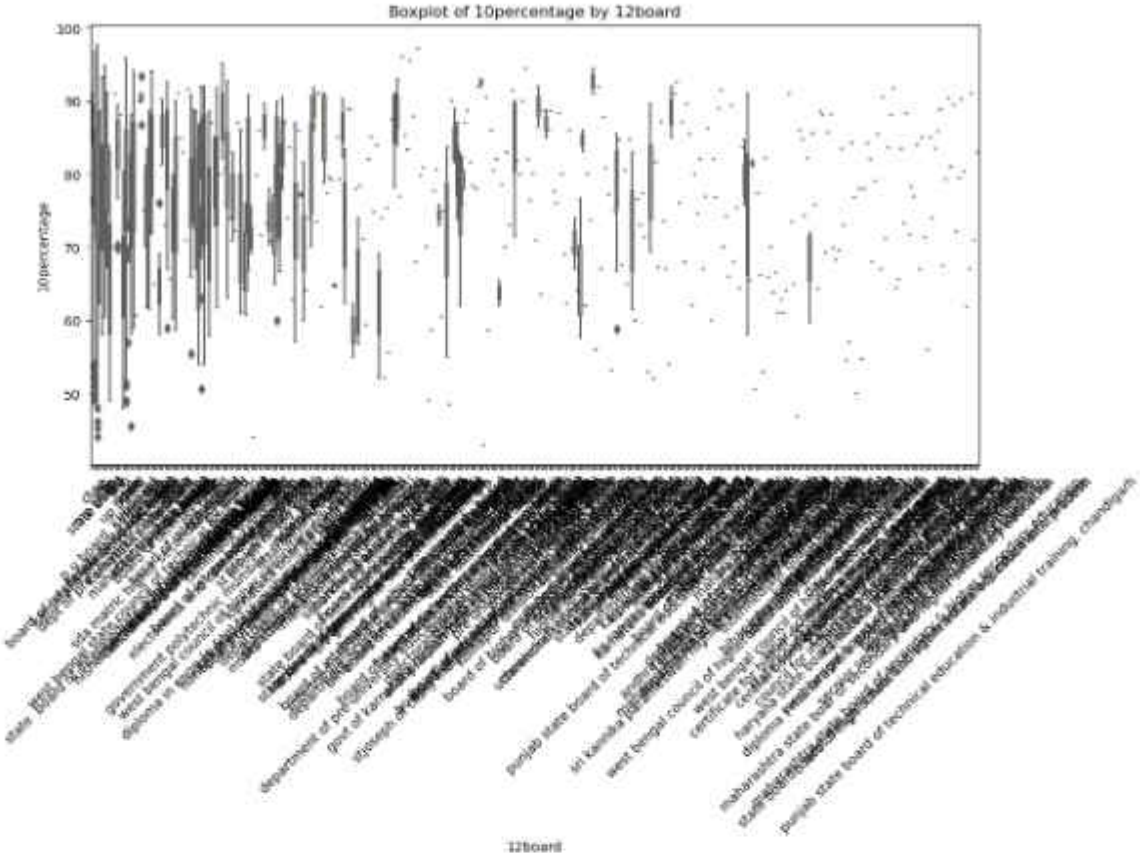

Boxplot of extraversion by 10board
extraversion
10board

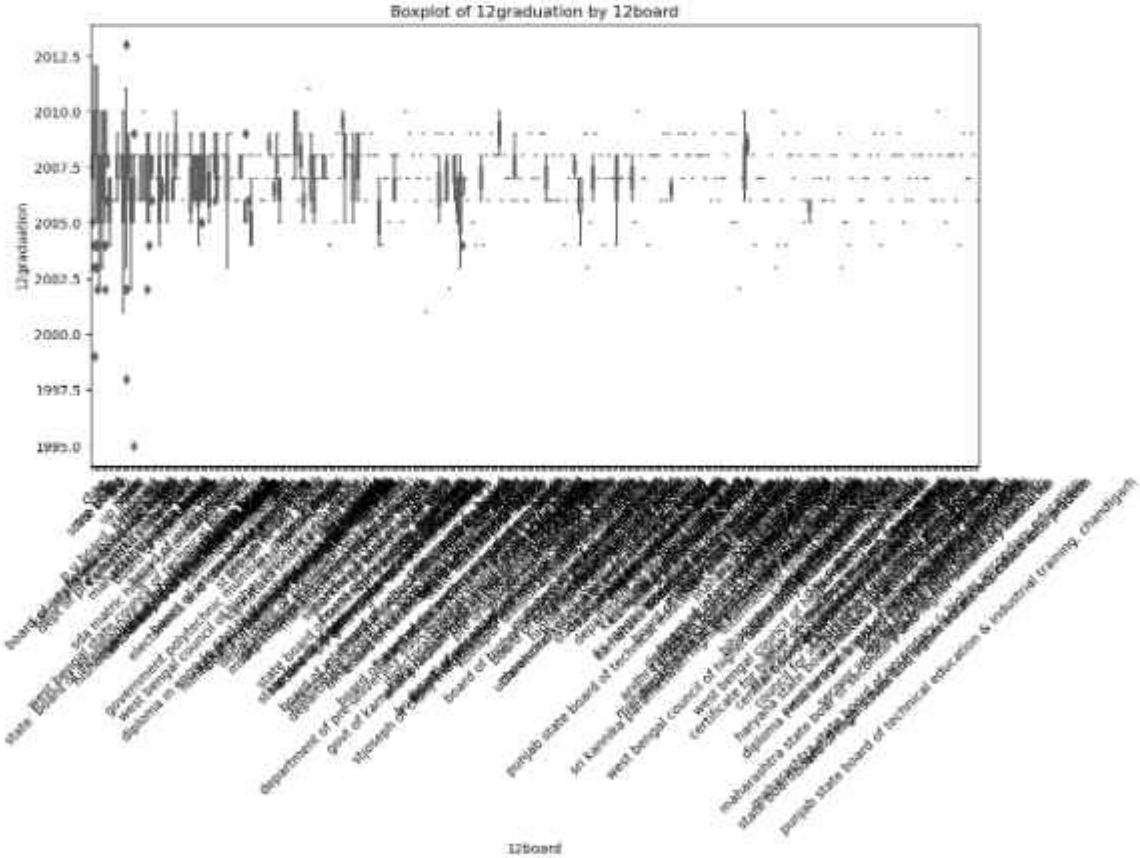

Boxplot of nueroticism by 10board
nueroticism
10board

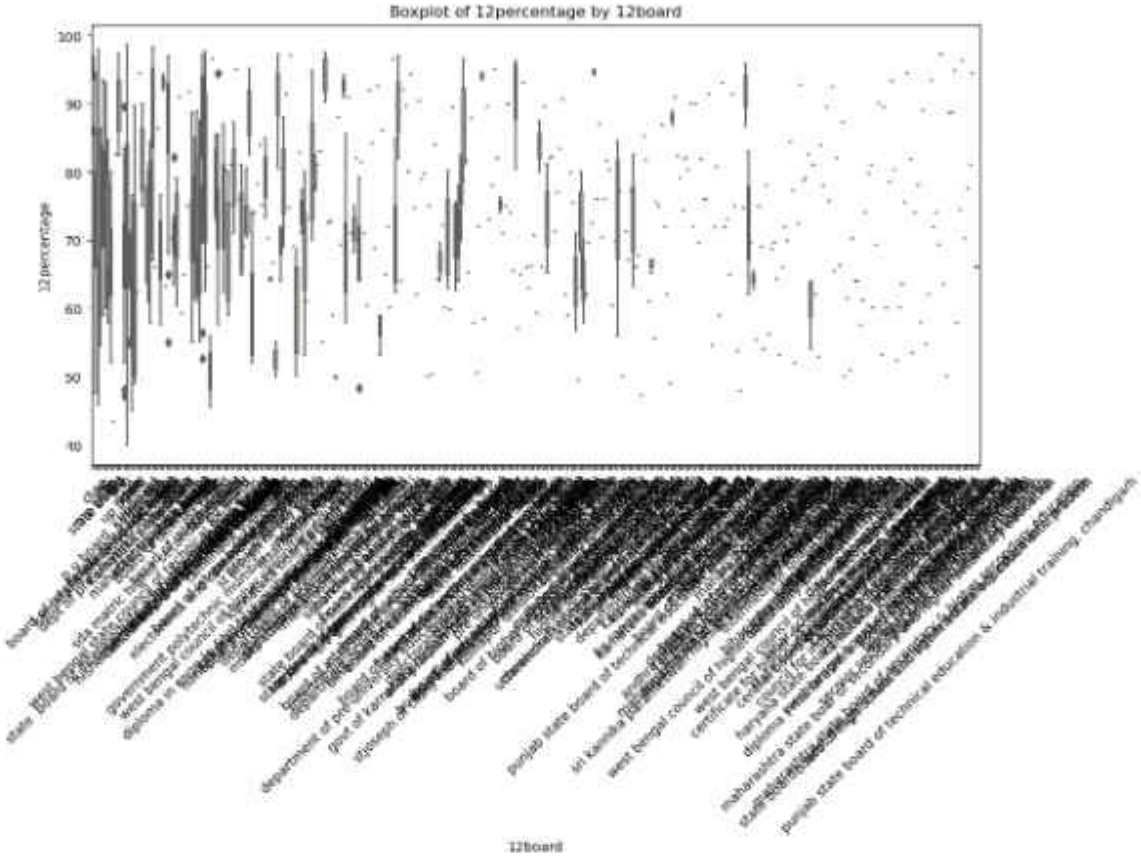

Boxplot of openess_to_experience by 10board
openess_to_experience
10board

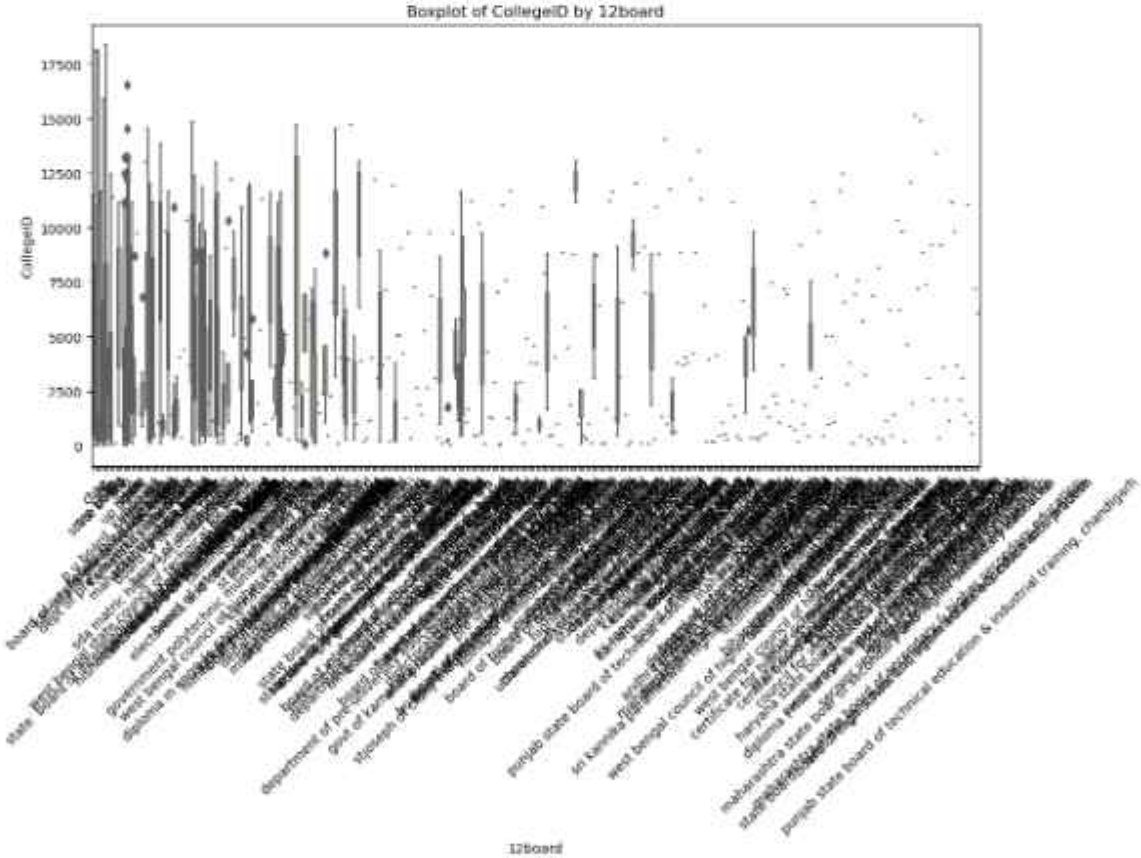

Boxplot of ID by 12board
1e6
ID
12board

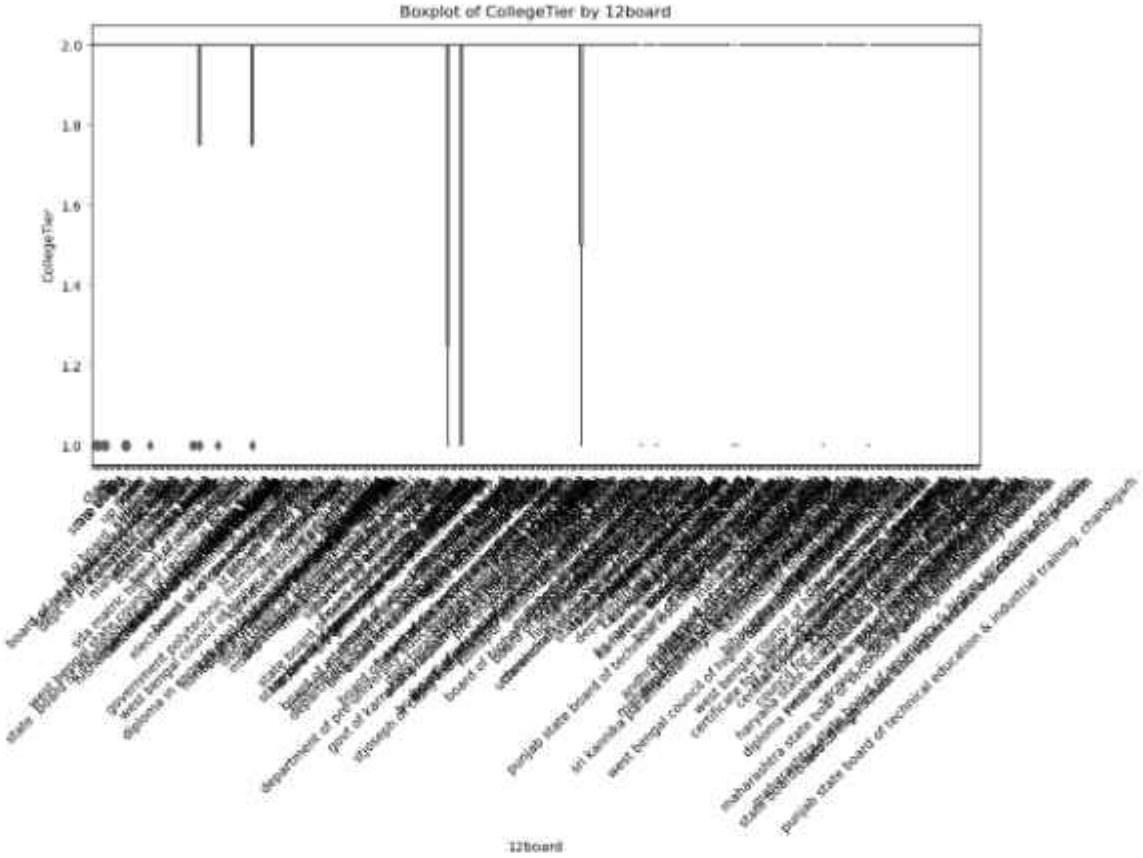

Boxplot of Salary by 12board
1e6
Salary
12board

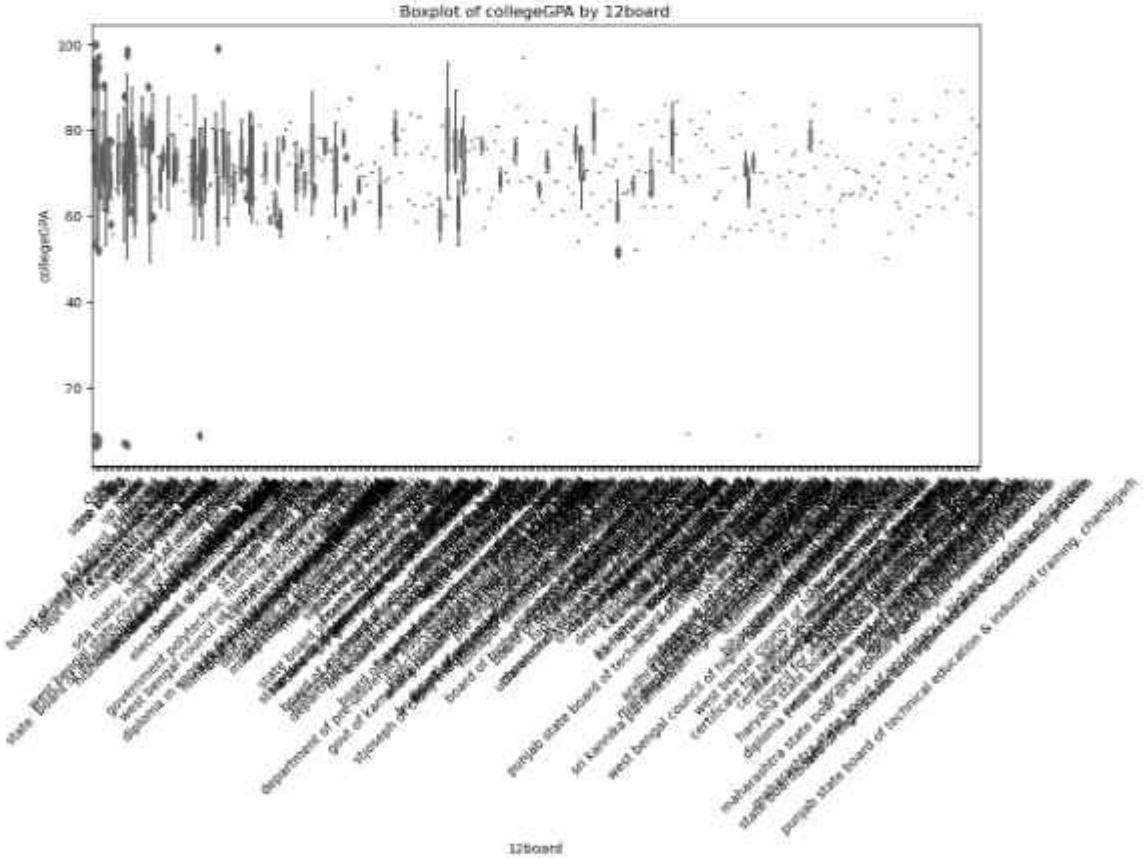

Boxplot of 10percentage by 12board
10percentage
12board

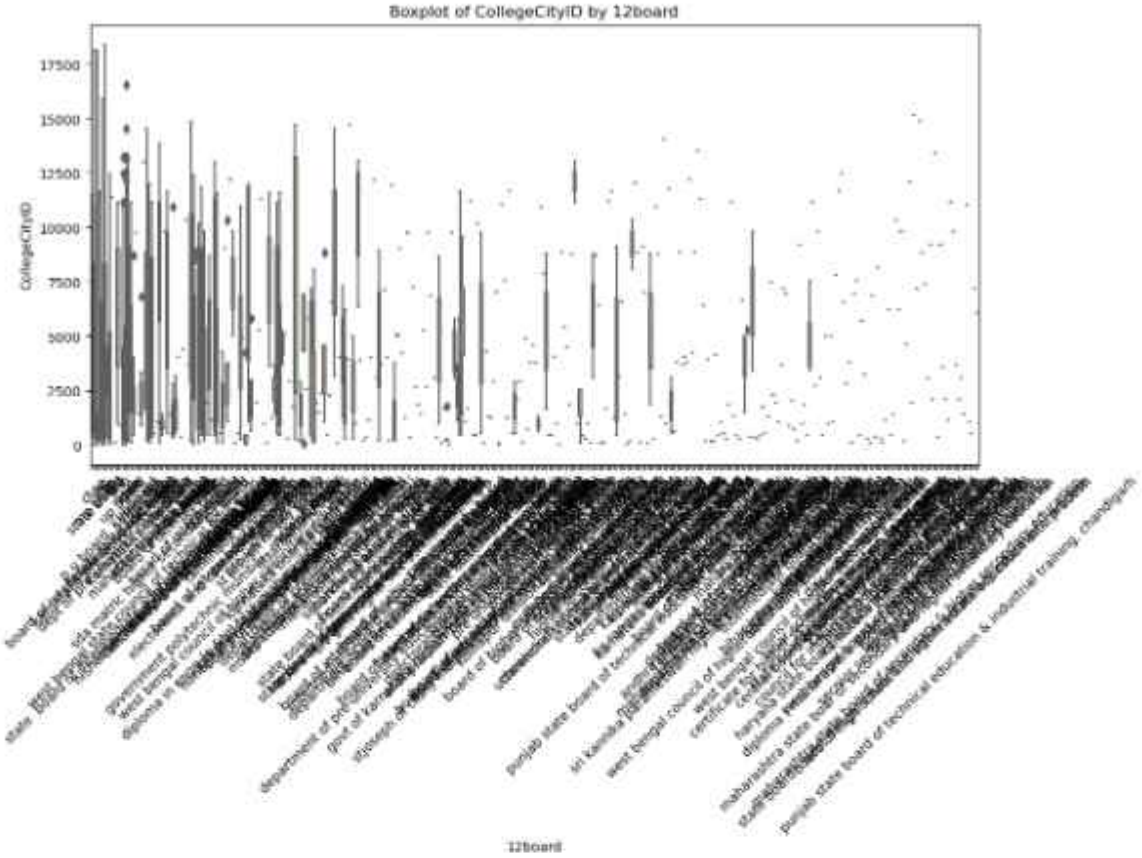

Boxplot of 12graduation by 12board
12graduation
12board

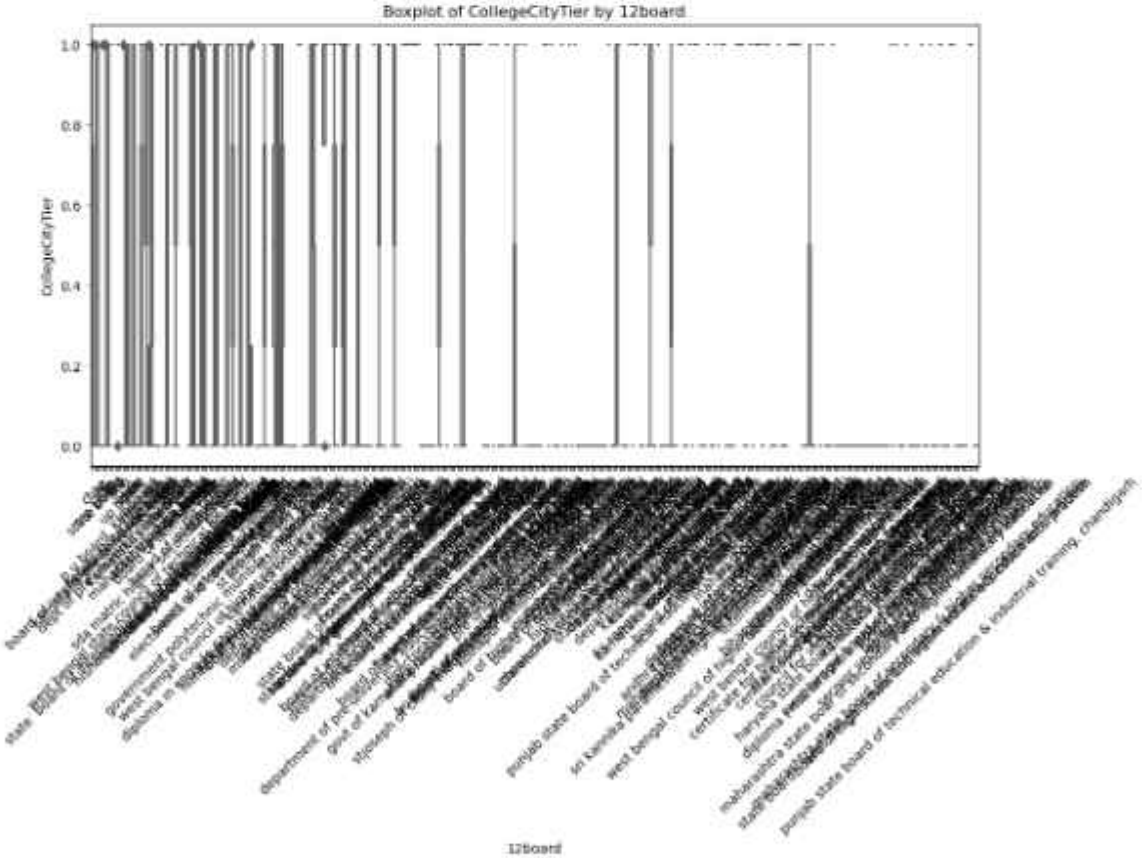

Boxplot of 12percentage by 12board
12percentage
100
90
80
70
60
50
40
12board

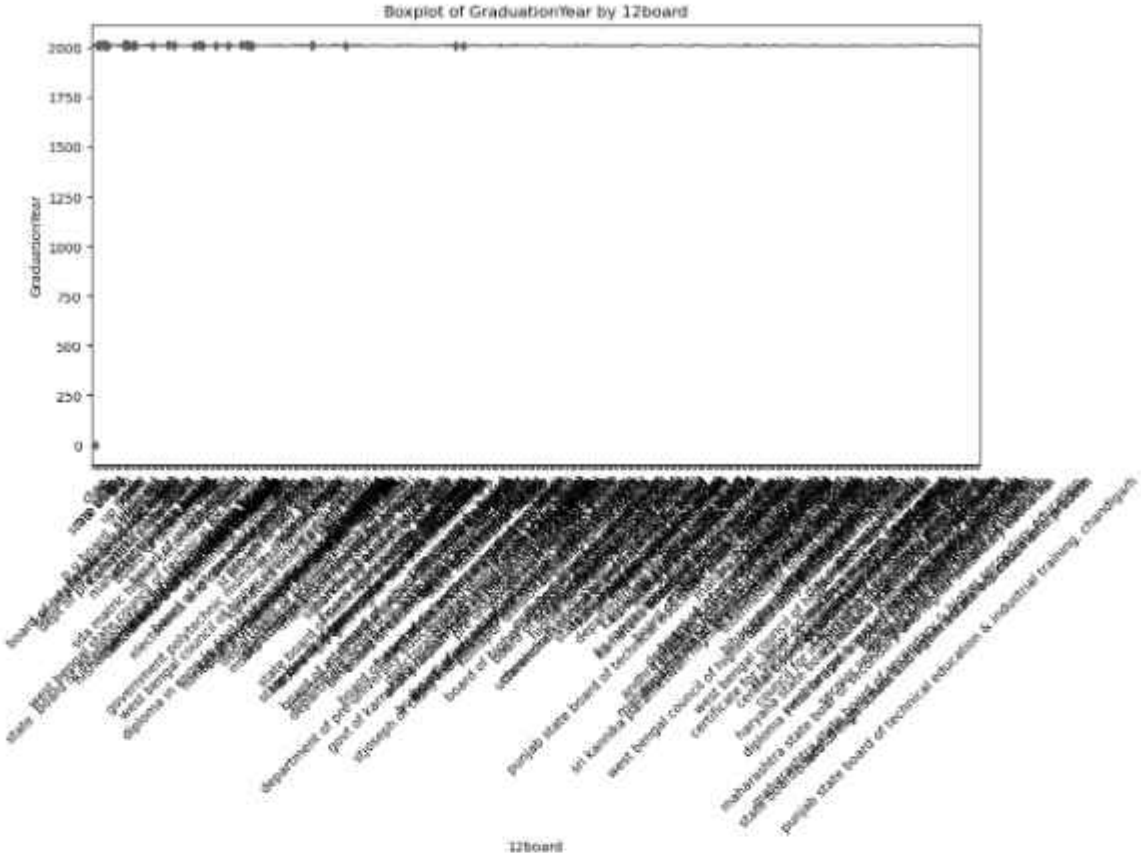

Boxplot of CollegeID by 12board
CollegeID
17500
15000
12500
10000
7500
5000
2500
0
12board

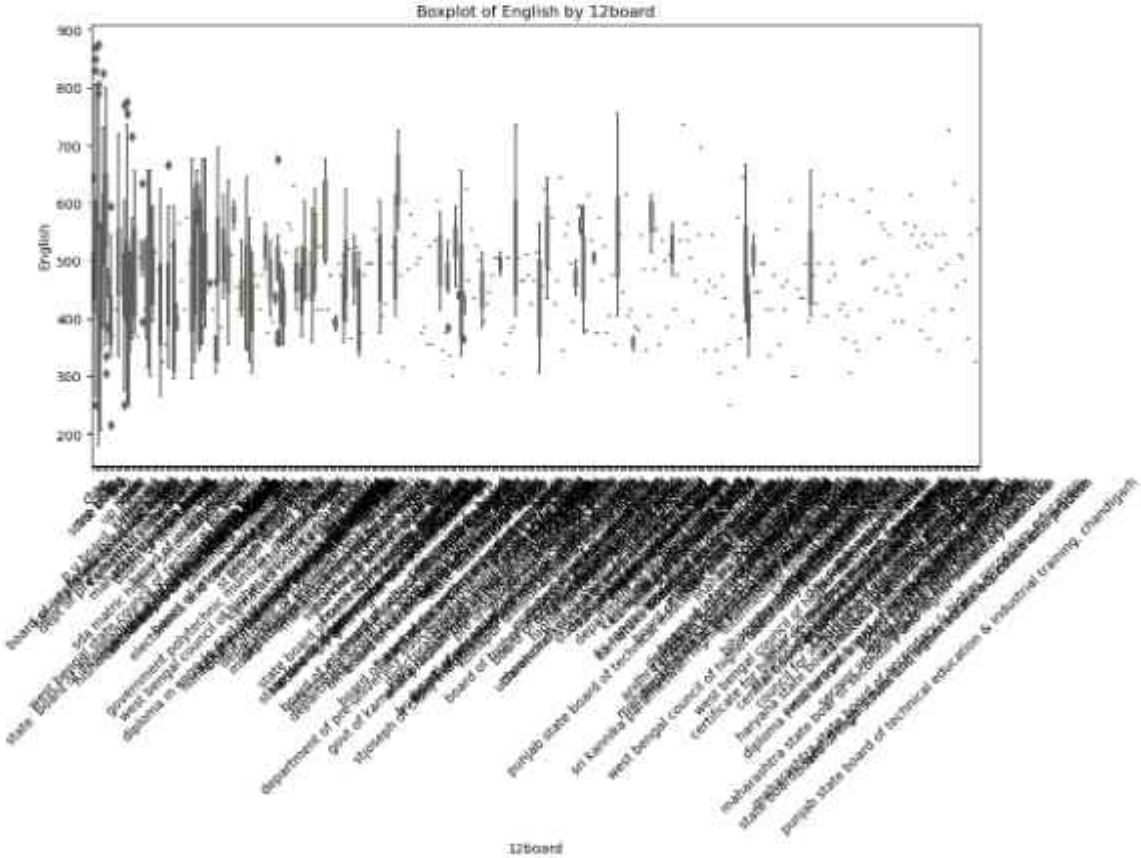

Boxplot of CollegeTier by 12board
CollegeTier
2.0
1.8
1.6
1.4
1.2
1.0
12board

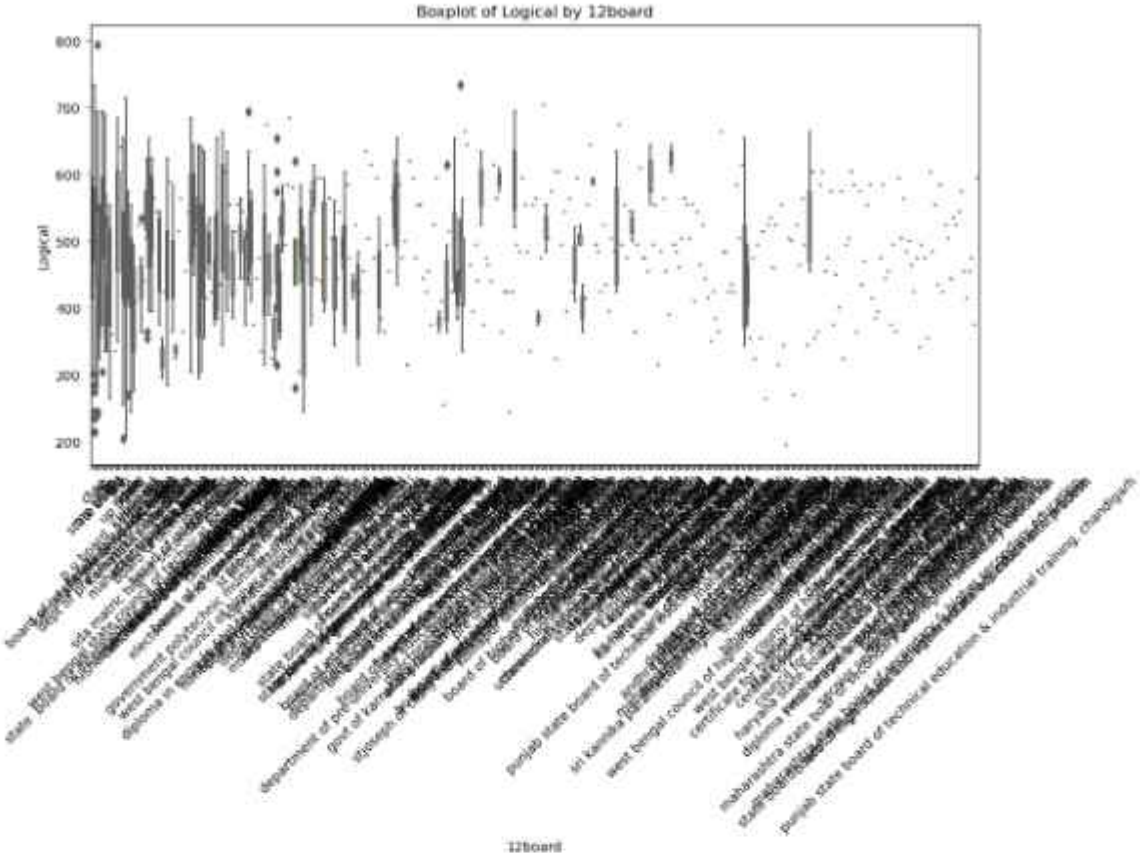

Boxplot of collegeGPA by 12board
collegeGPA
100
80
60
40
20
12board

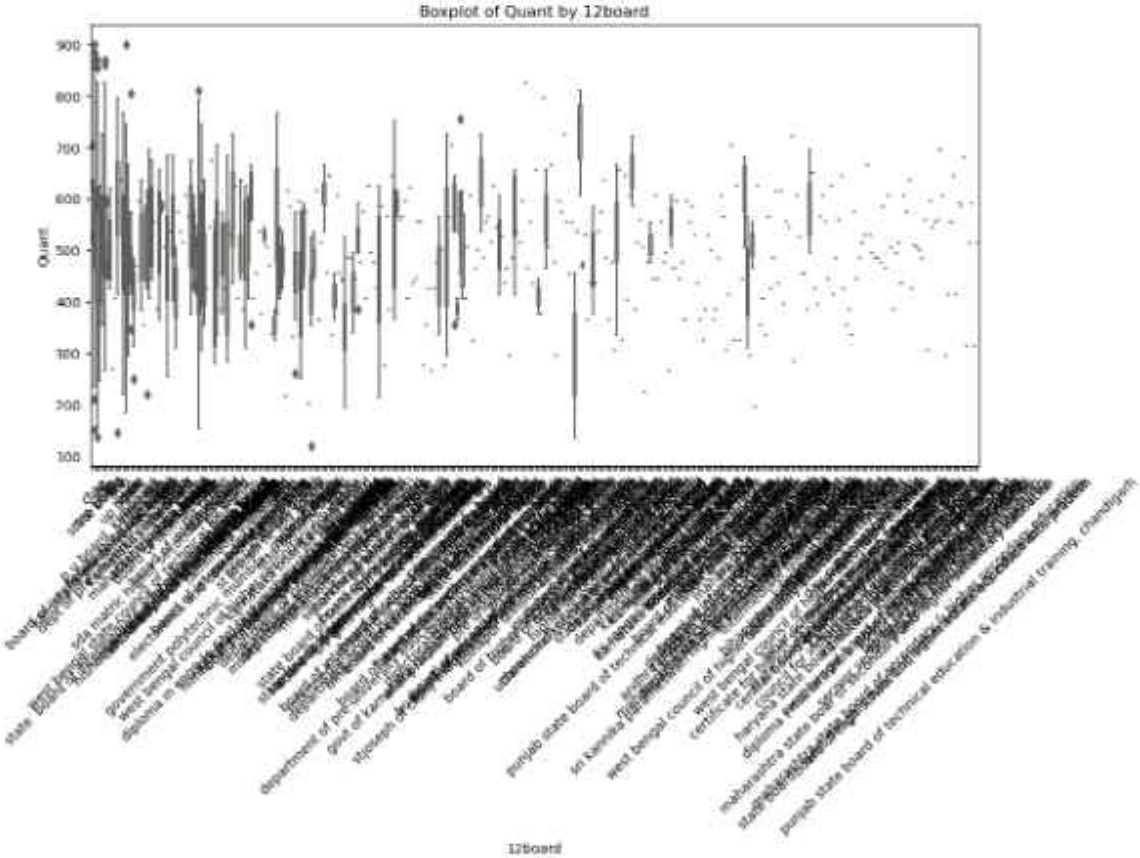

Boxplot of CollegeCityID by 12board
CollegeCityID
17500
15000
12500
10000
7500
5000
2500
0
12board

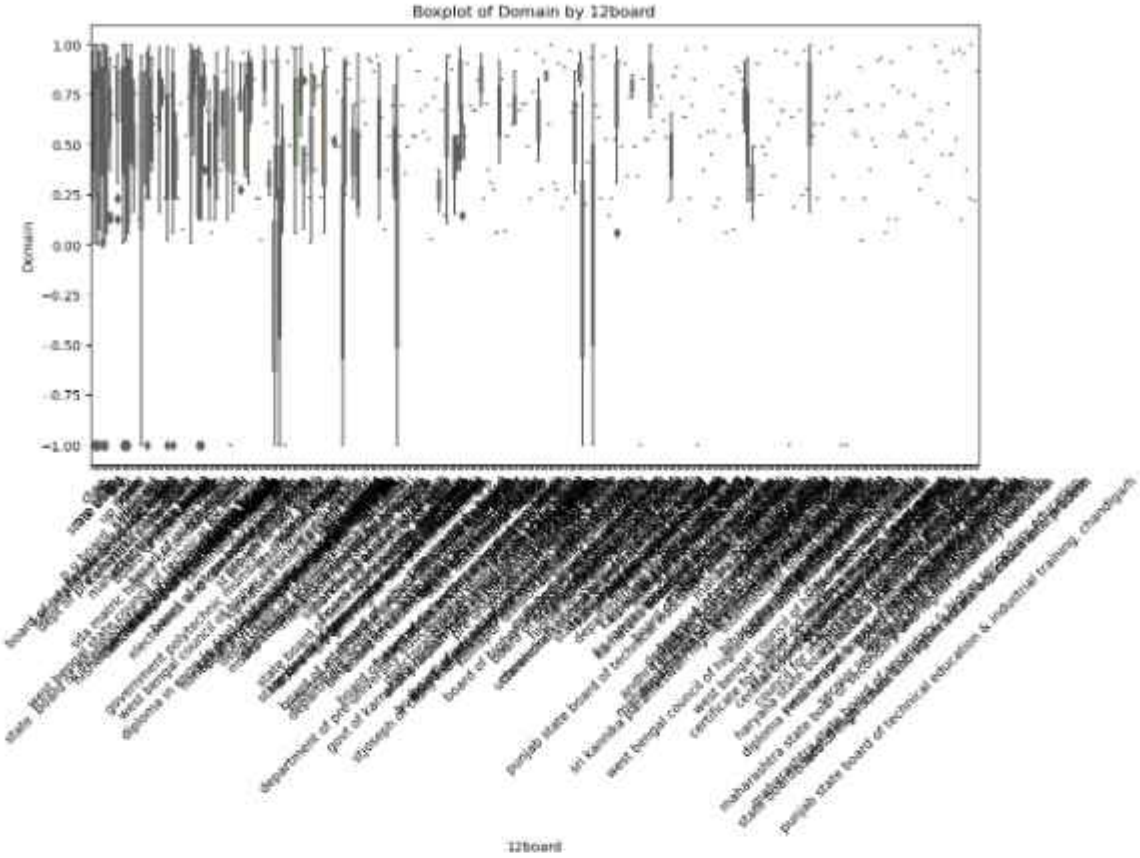

Boxplot of CollegeCityTier by 12board
CollegeCityTier
1.0
0.8
0.6
0.4
0.2
0.0
12board

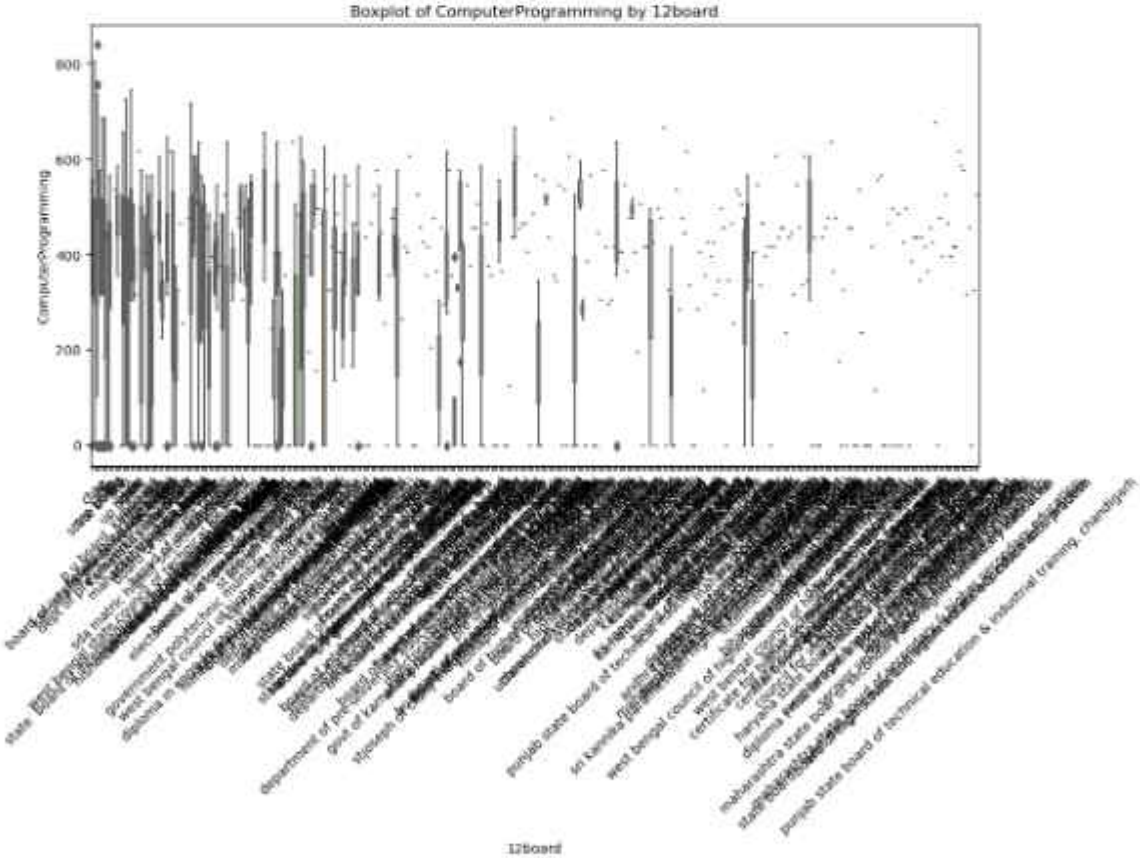

Boxplot of GraduationYear by 12board
GraduationYear
2000
1750
1500
1250
1000
750
500
250
0
12board

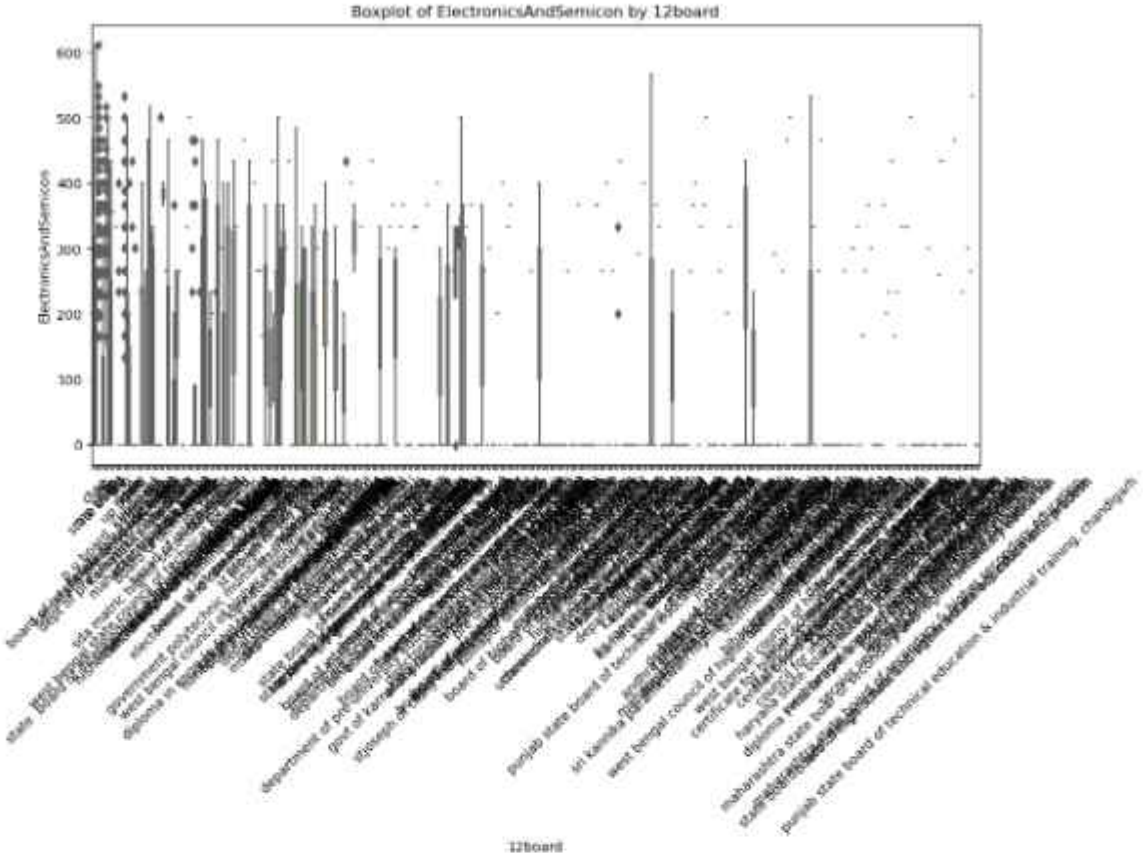

Boxplot of English by 12board
English
900
800
700
600
500
400
300
200
12board

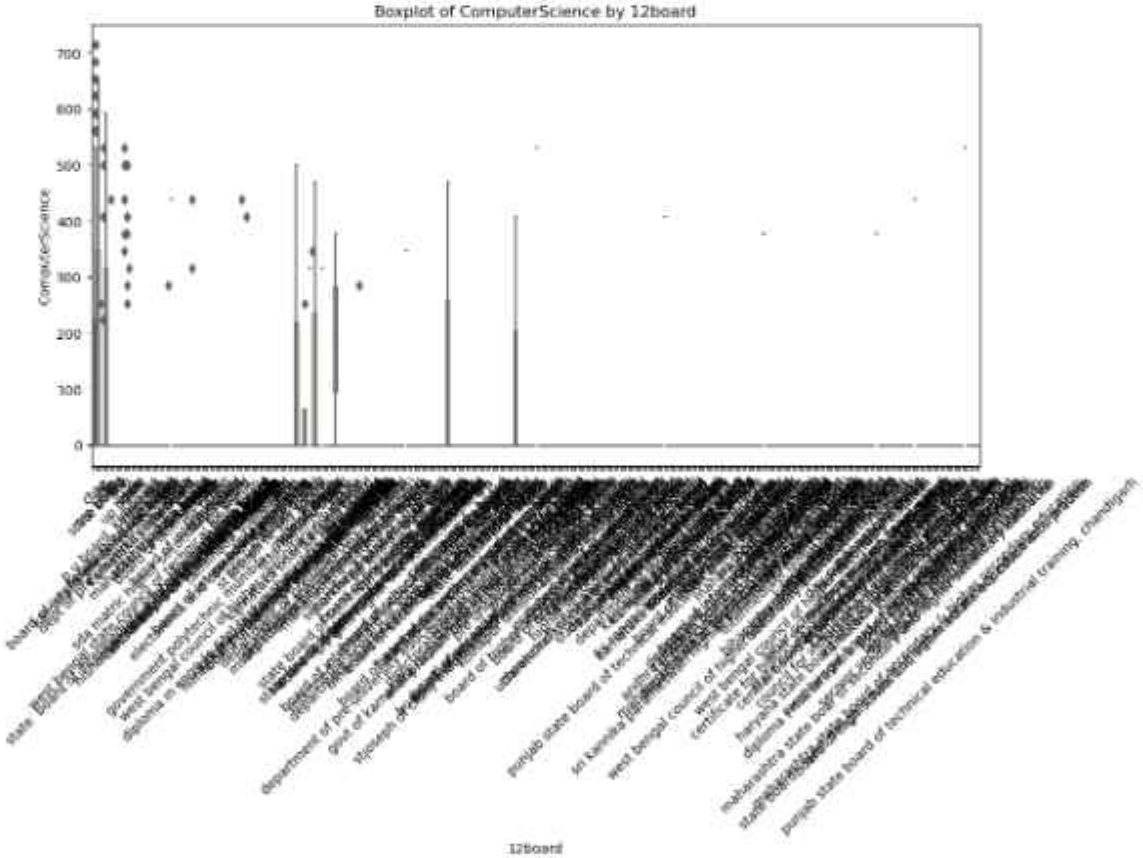

Boxplot of Logical by 12board
Logical
12board

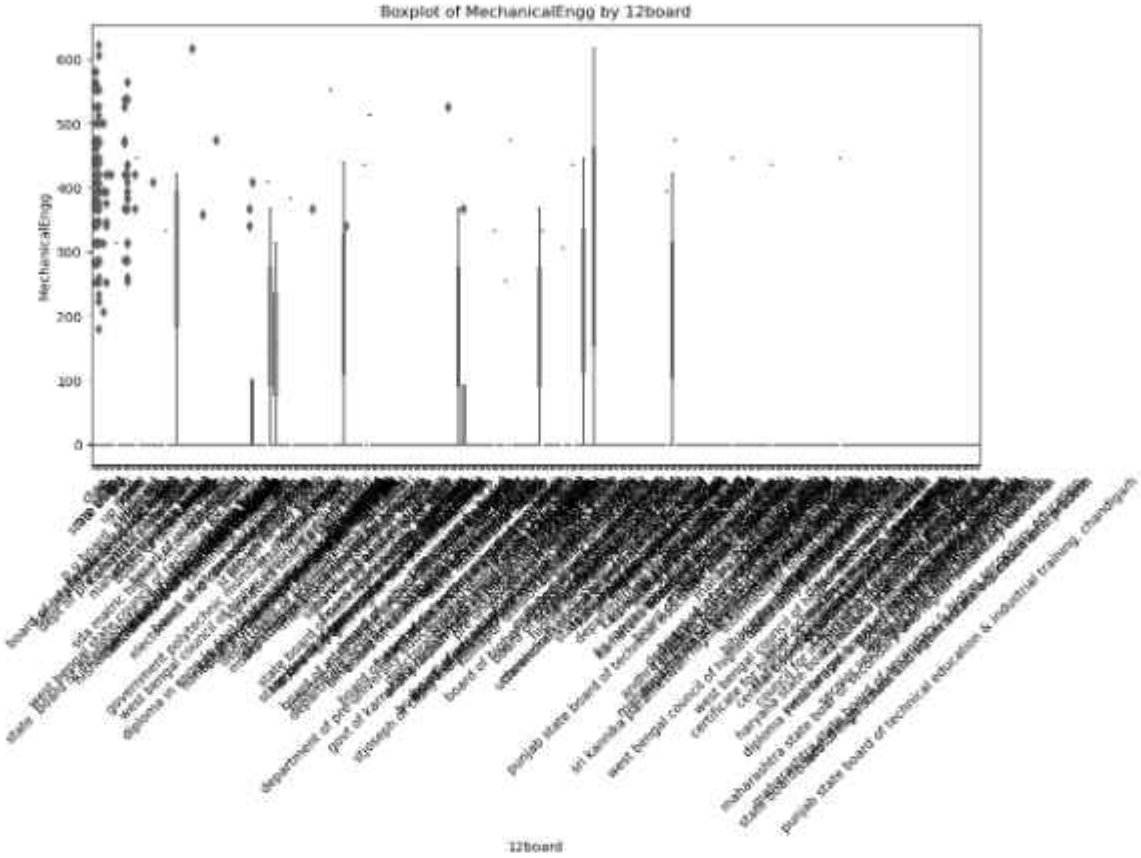

Boxplot of Quant by 12board
Quant
12board

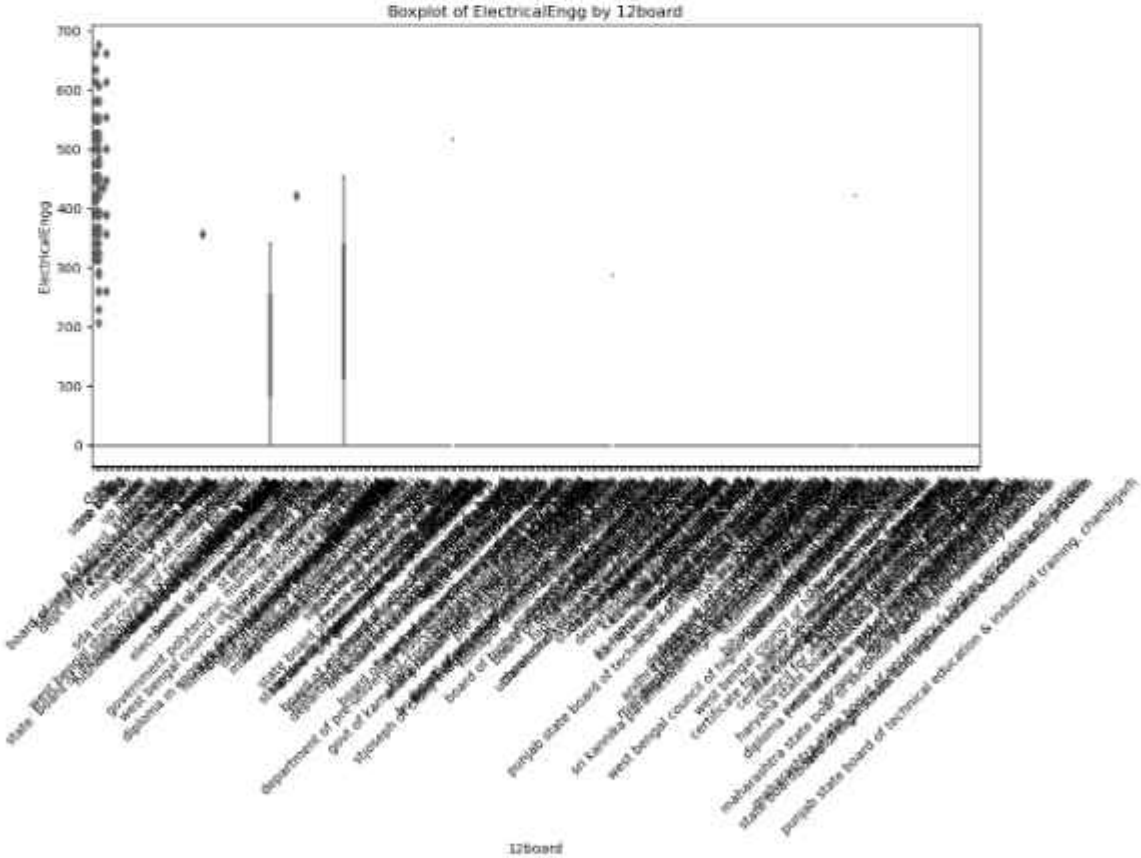

Boxplot of Domain by 12board
Domain
1.00
0.75
0.50
0.25
0.00
−0.25
−0.50
−0.75
−1.00
12board

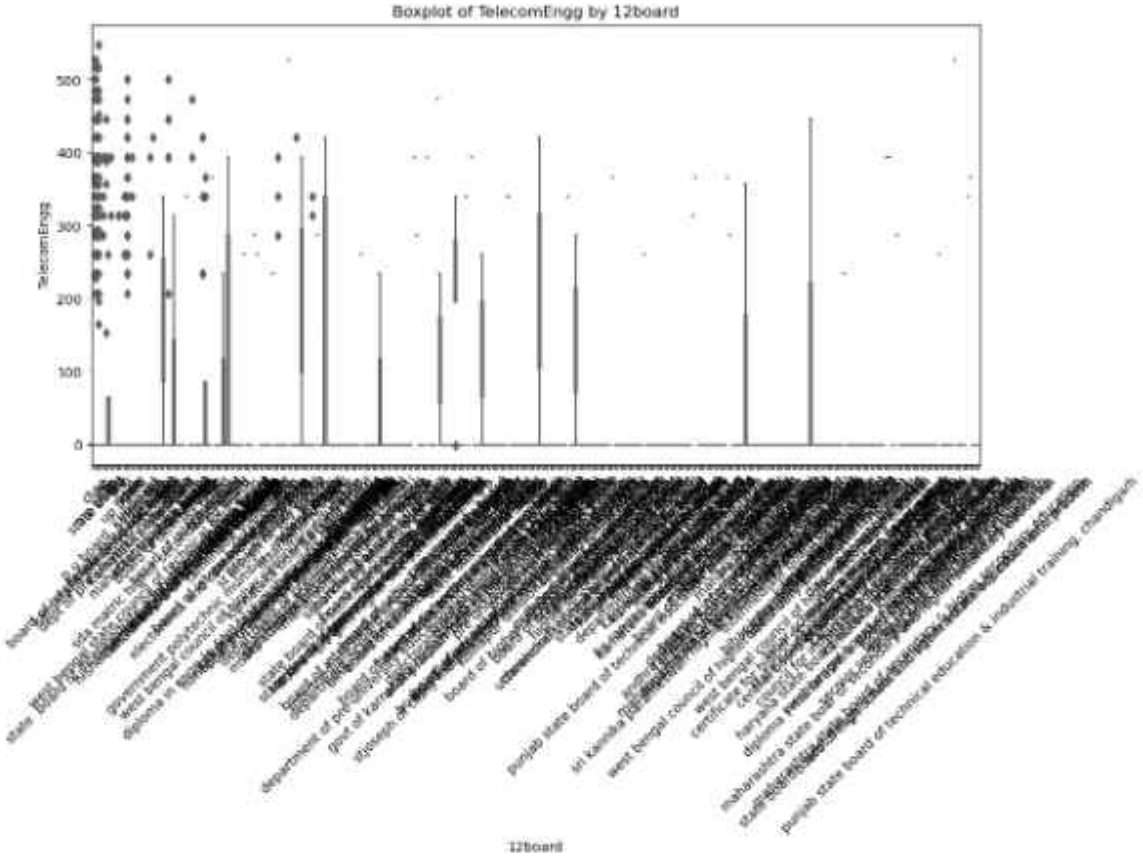

Boxplot of ComputerProgramming by 12board
ComputerProgramming
800
600
400
200
0
12board

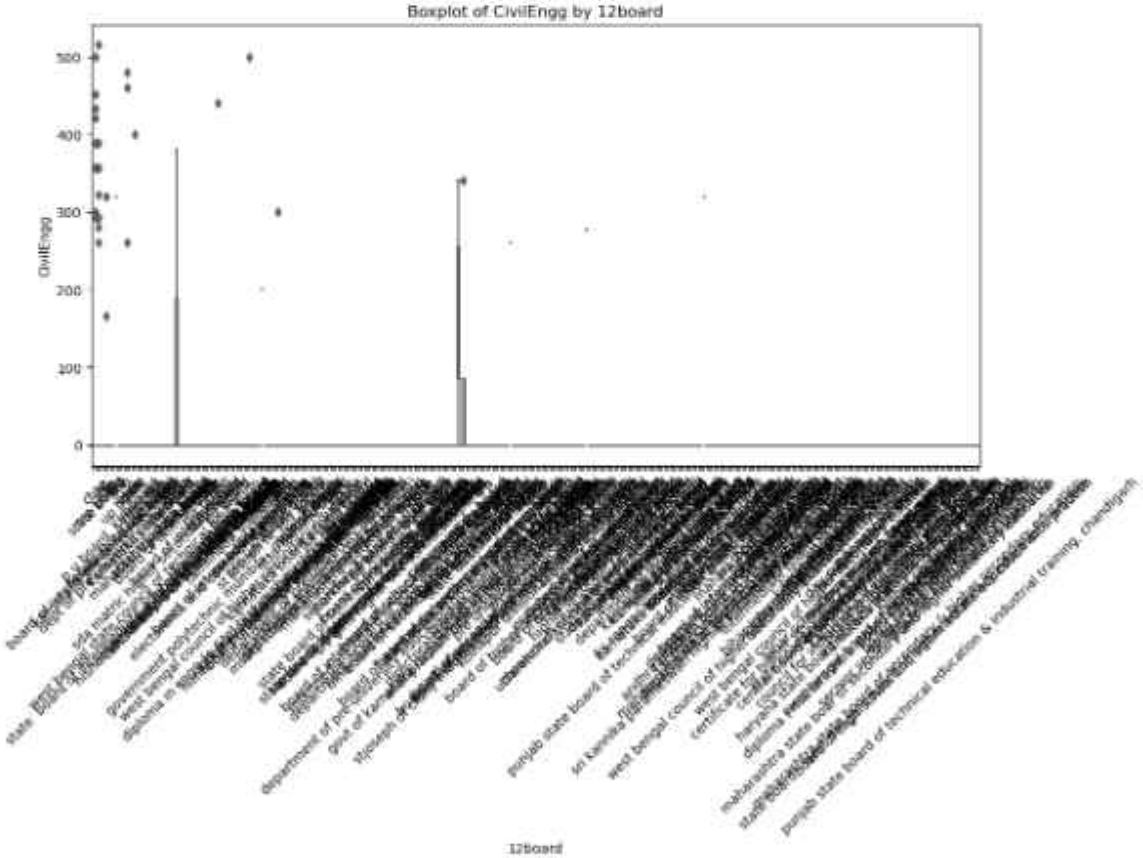

Boxplot of ElectronicsAndSemicon by 12board
ElectronicsAndSemicon
0
100
200
300
400
500
600
12board

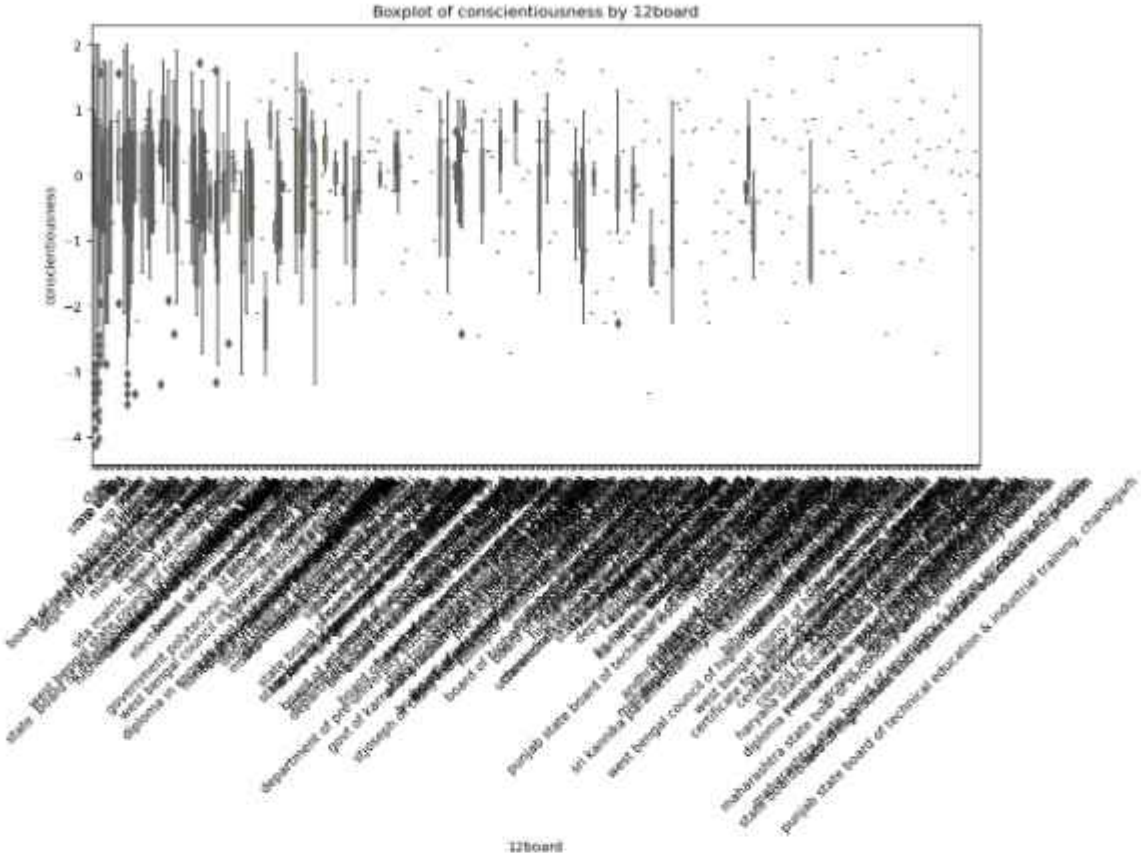

Boxplot of ComputerScience by 12board
ComputerScience
0
100
200
300
400
500
600
700
12board

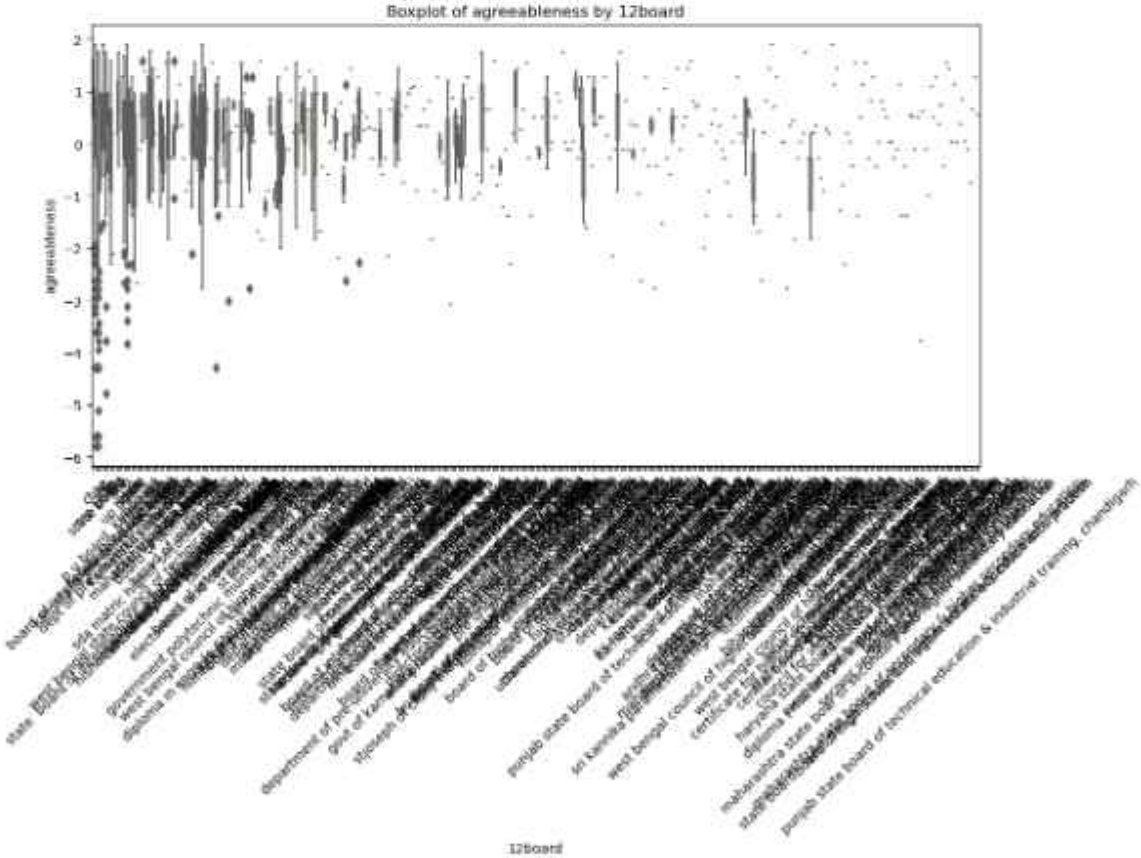

Boxplot of MechanicalEngg by 12board
MechanicalEngg
0
100
200
300
400
500
600
12board

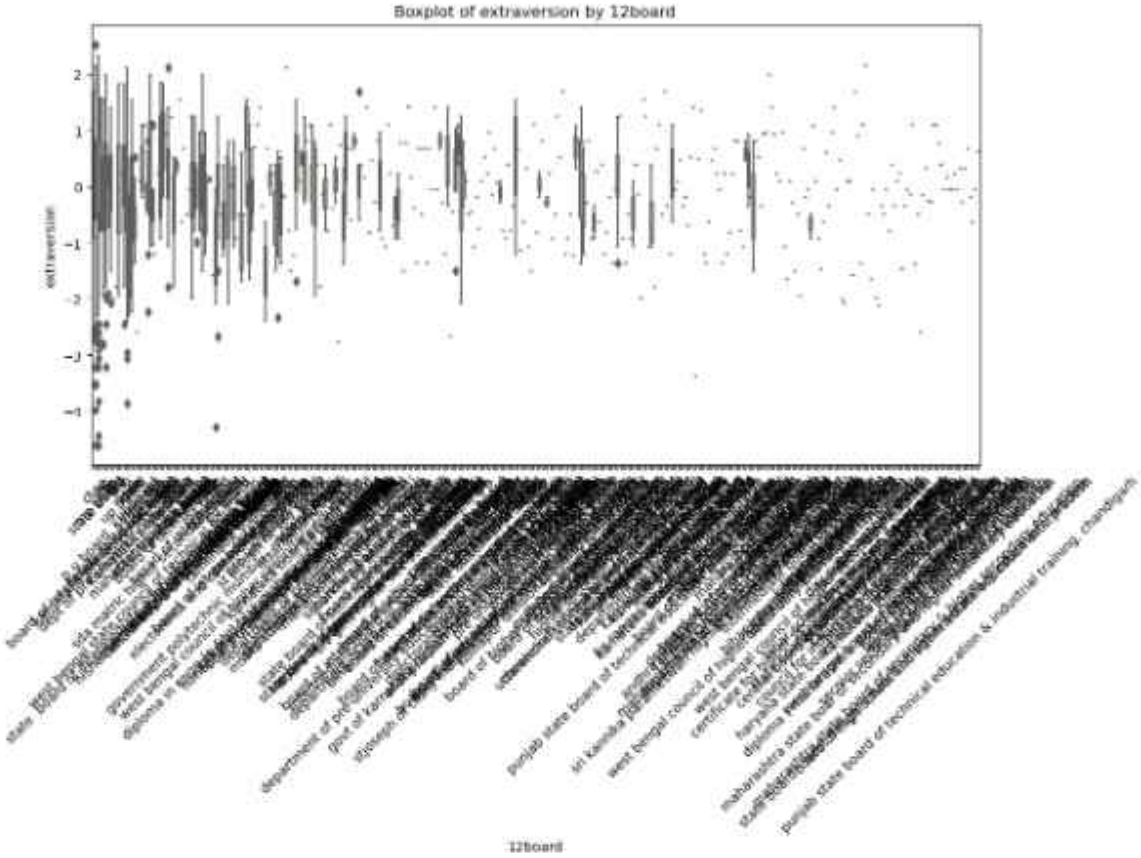

Boxplot of ElectricalEngg by 12board
ElectricalEngg
0
100
200
300
400
500
600
700
12board

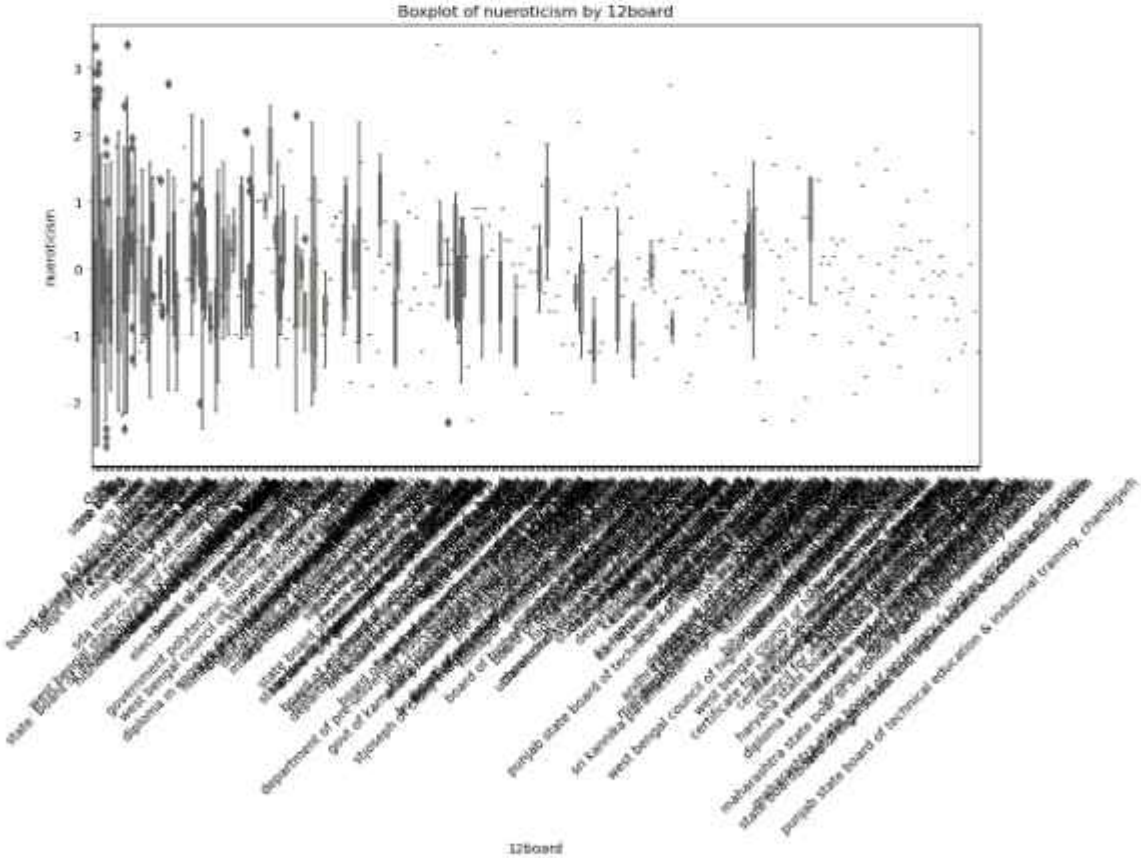

Boxplot of TelecomEngg by 12board
TelecomEngg
0
100
200
300
400
500
12board

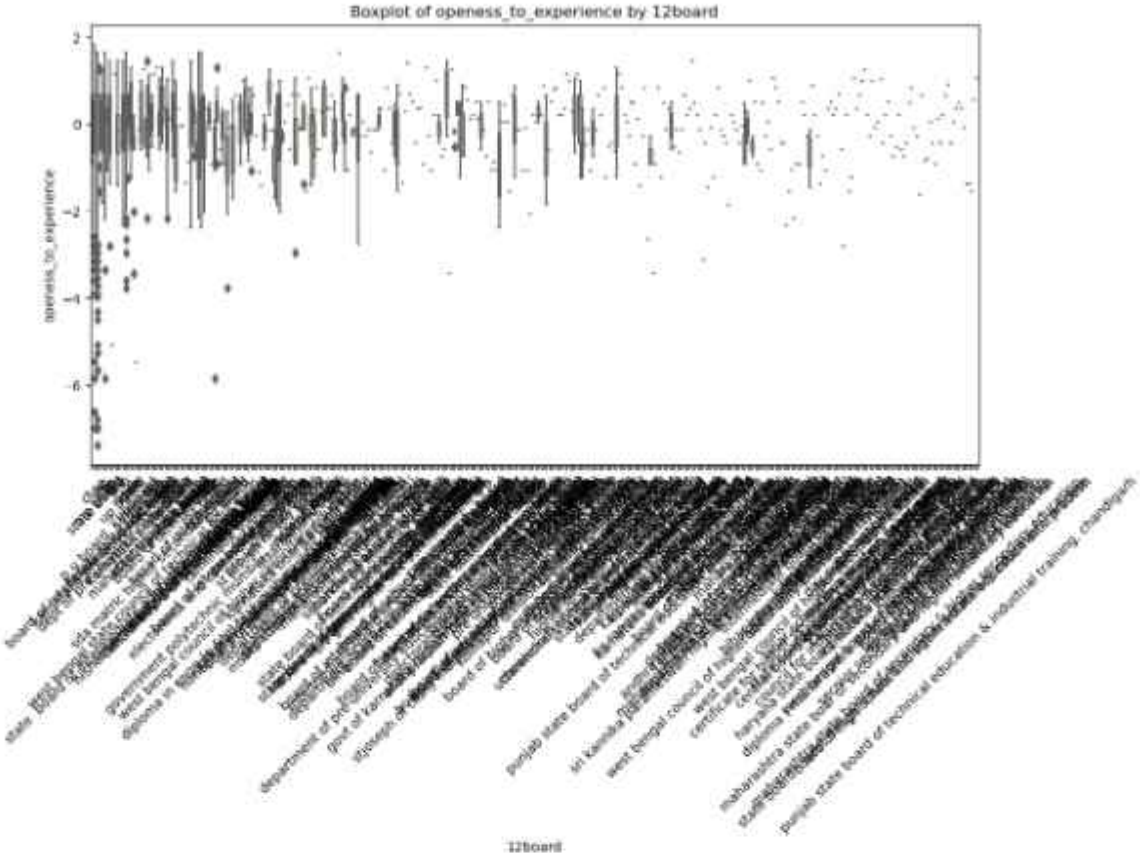

Boxplot of CivilEngg by 12board
CivilEngg
0
100
200
300
400
500
12board

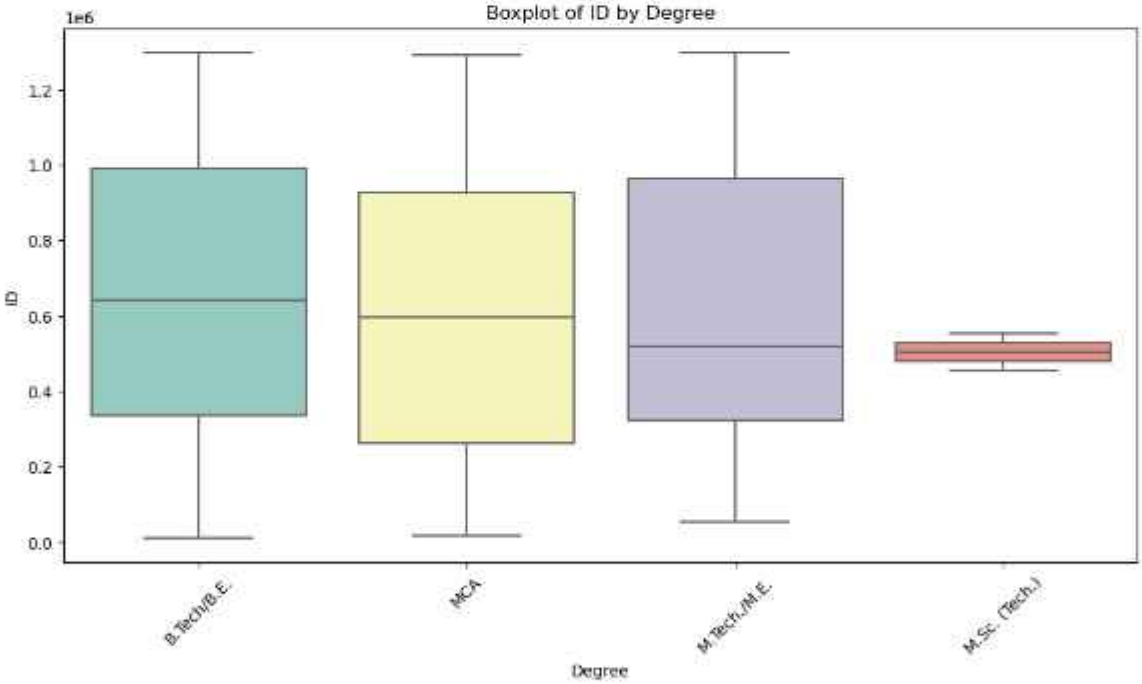

Boxplot of conscientiousness by 12board
conscientiousness
12board

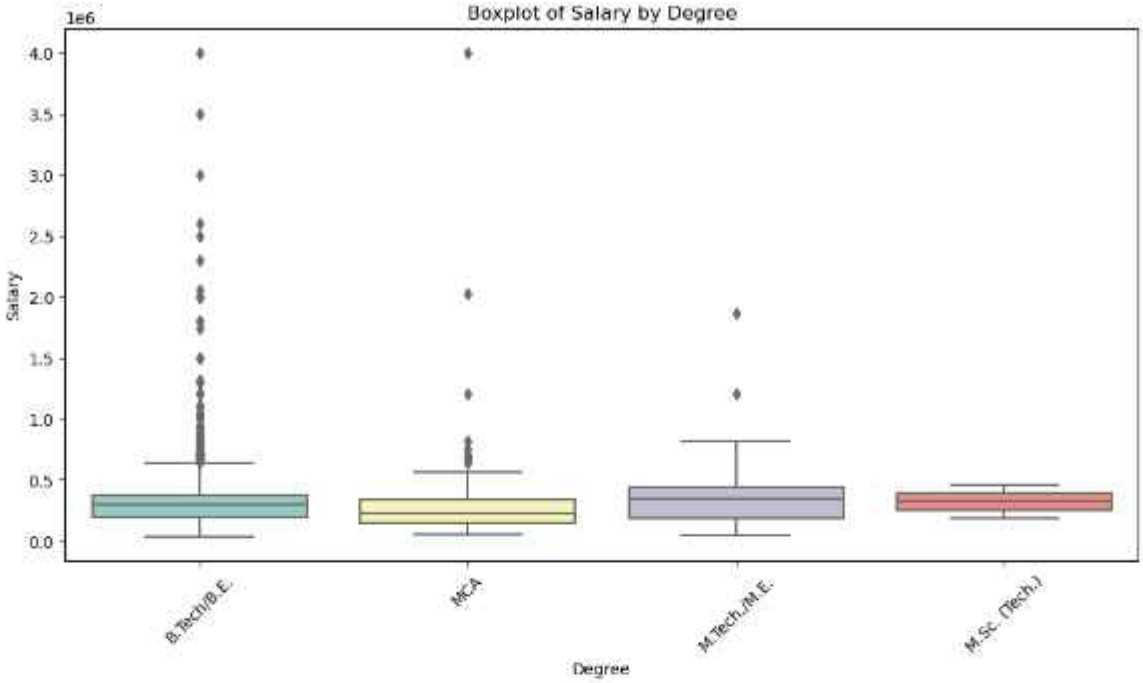

Boxplot of agreeableness by 12board
agreeableness
12board

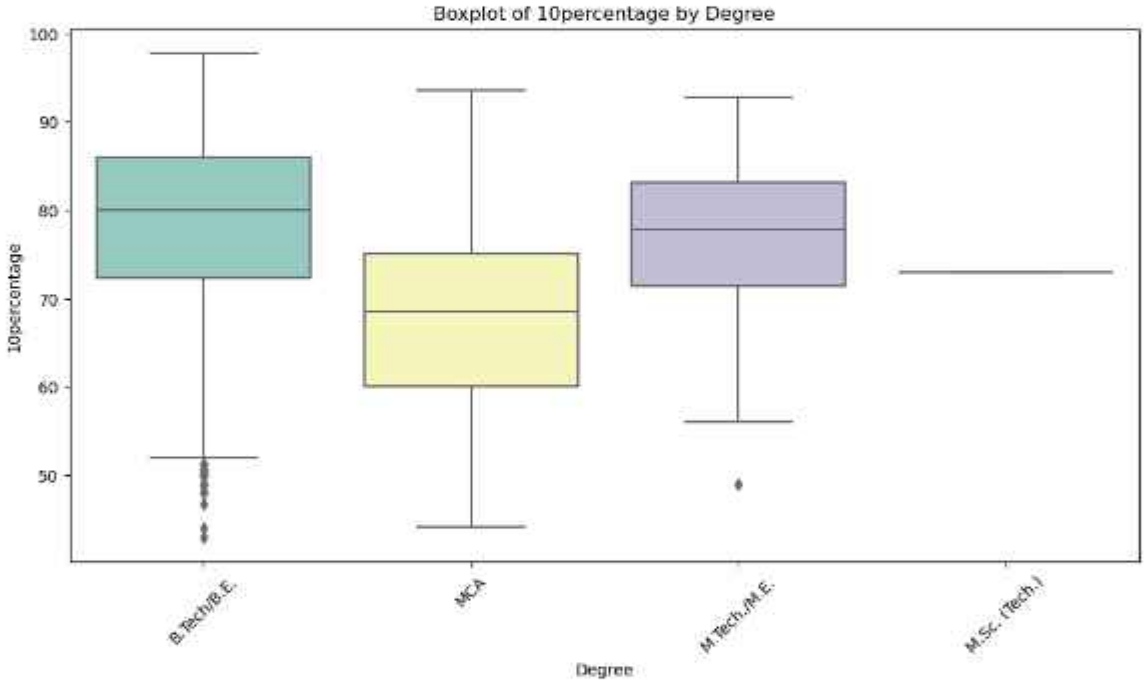

Boxplot of extraversion by 12board
extraversion
12board

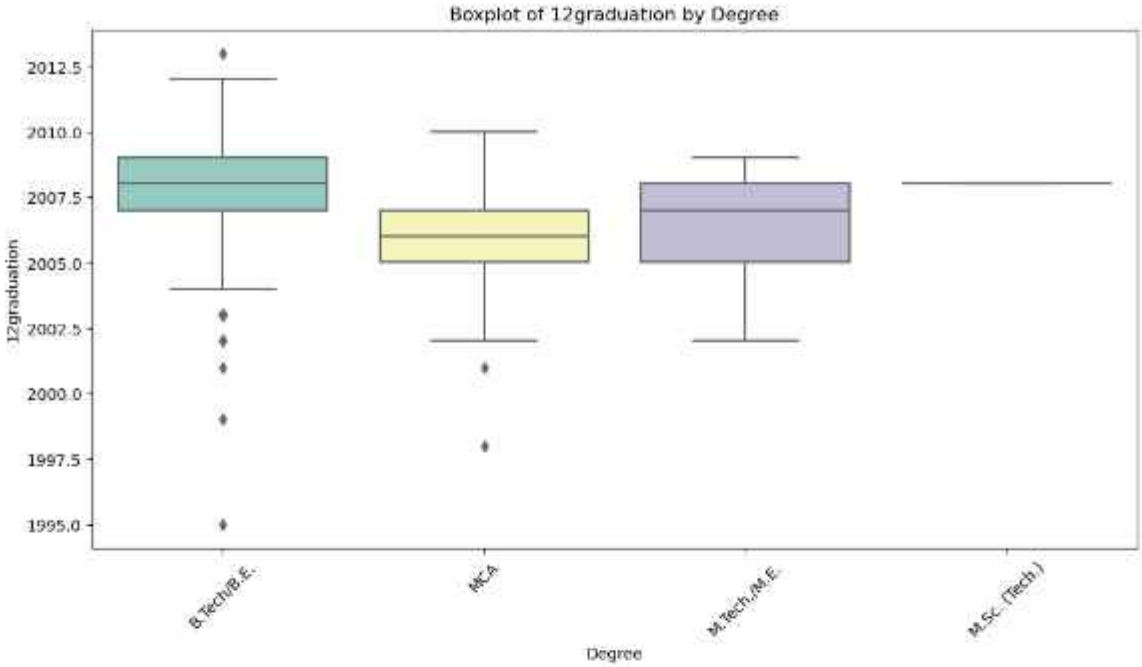

Boxplot of nueroticism by 12board
nueroticism
12board

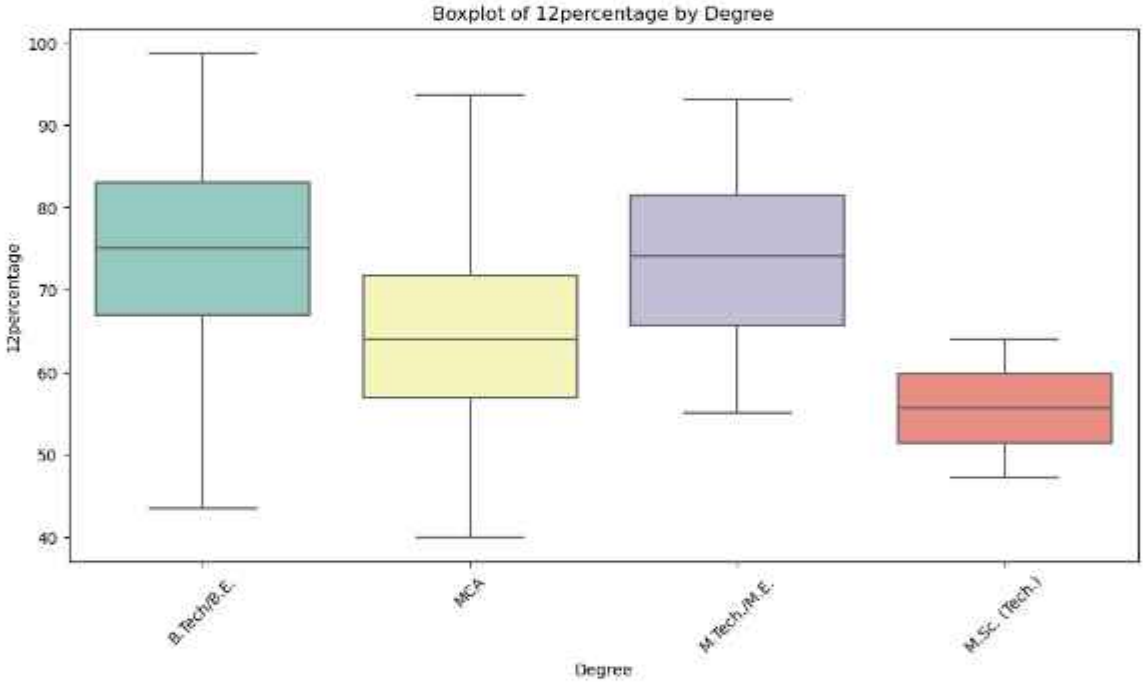

Boxplot of openess_to_experience by 12board
openess_to_experience
12board

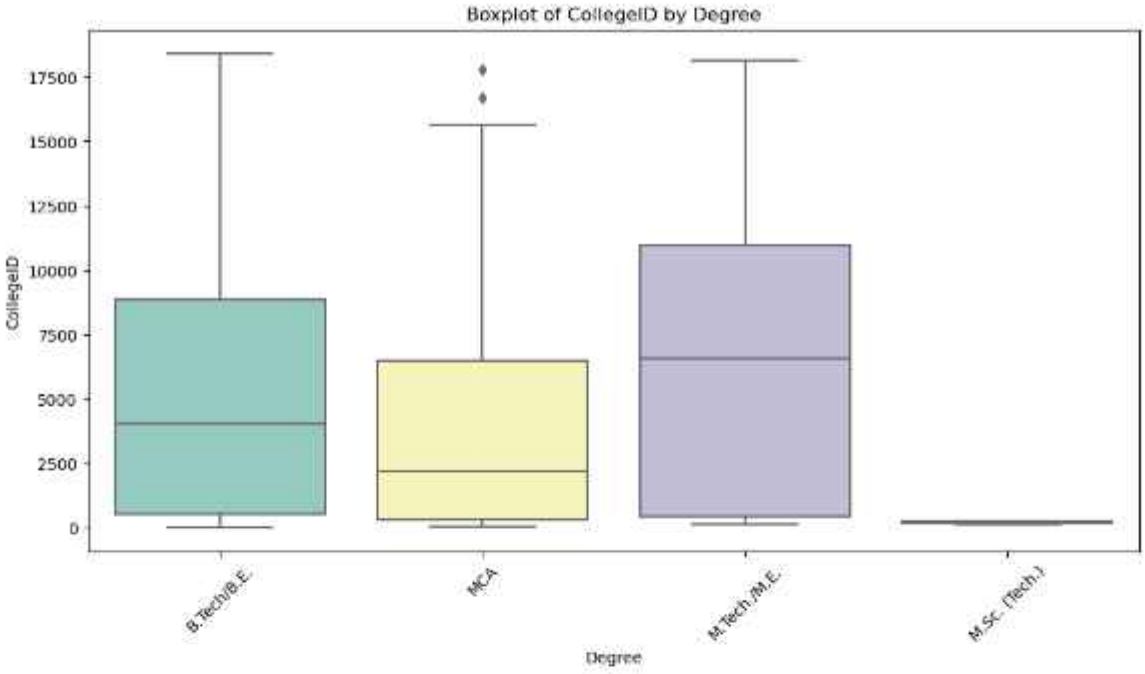

Boxplot of ID by Degree
1e6
ID
B.Tech/B.E.
MCA
M.Tech./M.E.
M.Sc. (Tech.)
Degree

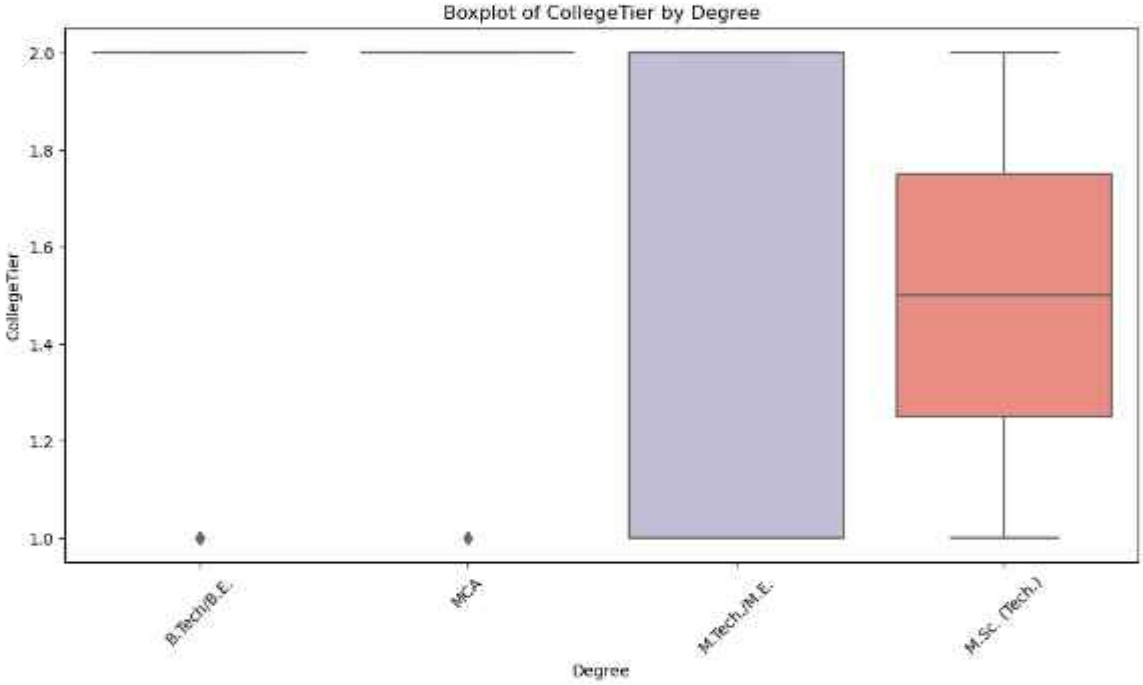

Boxplot of Salary by Degree
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
B.Tech/B.E.
MCA
M.Tech./M.E.
M.Sc. (Tech.)
Degree

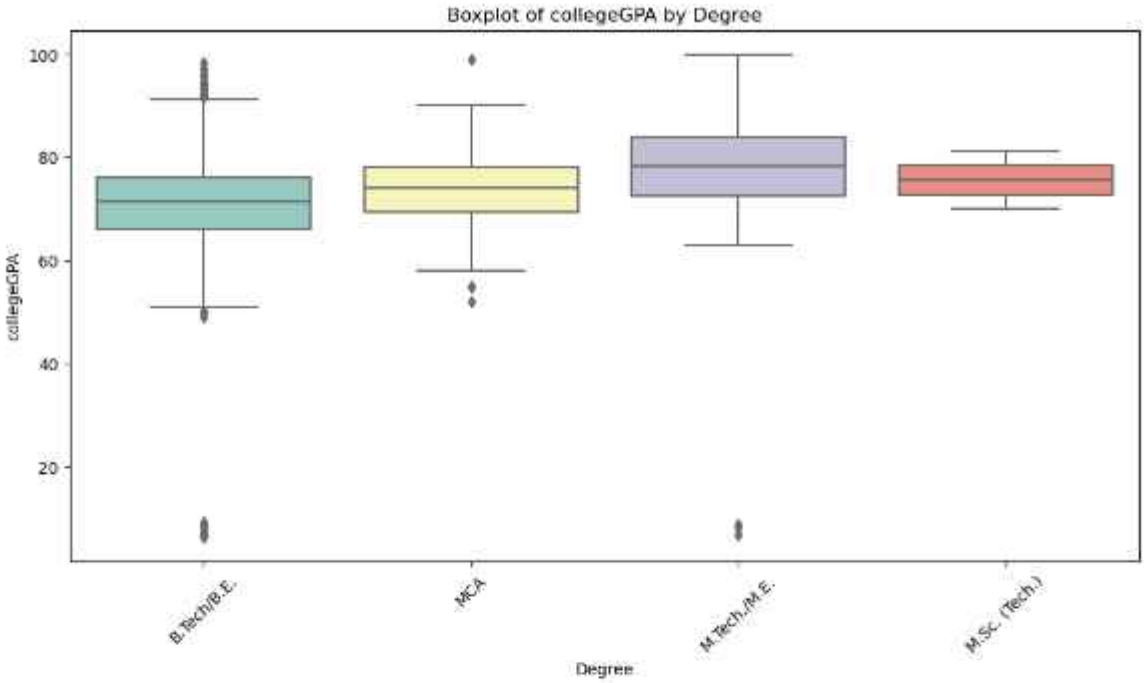

Boxplot of 10percentage by Degree
100
90
80
70
60
50
10percentage
B.Tech/B.E.
MCA
M.Tech./M.E.
M.Sc. (Tech.)
Degree

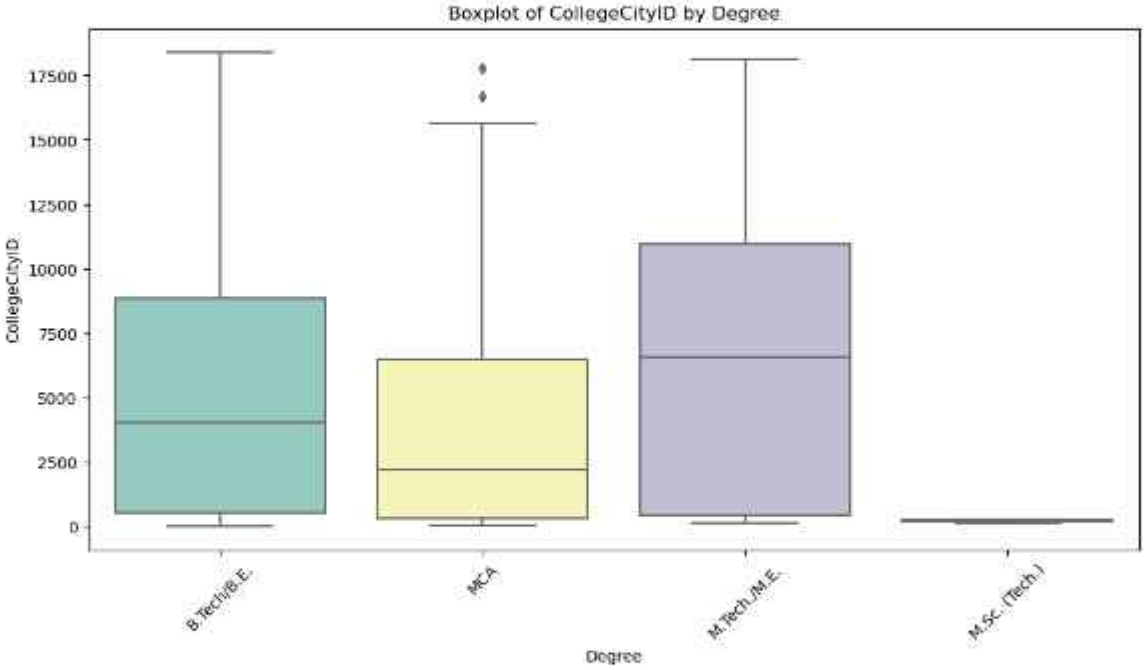

Boxplot of 12graduation by Degree
12graduation
2012.5
2010.0
2007.5
2005.0
2002.5
2000.0
1997.5
1995.0
B.Tech/B.E.
MCA
M.Tech./M.E.
M.Sc. (Tech.)
Degree

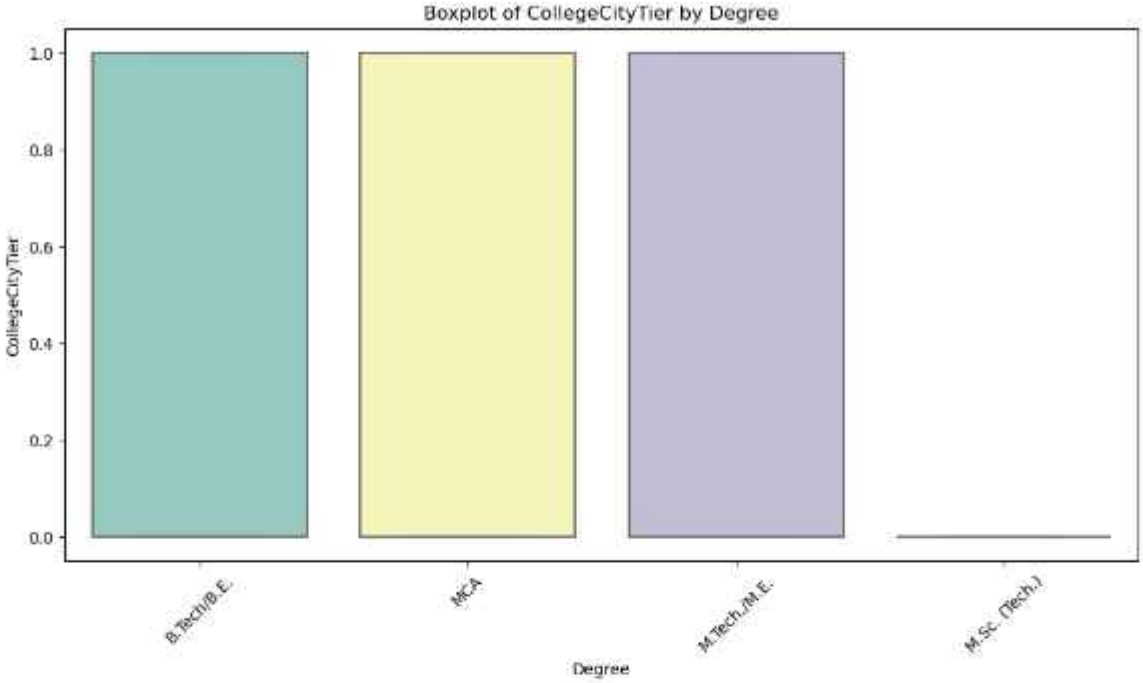

Boxplot of 12percentage by Degree
12percentage
100
90
80
70
60
50
40
B.Tech/B.E.
MCA
M.Tech./M.E.
M.Sc. (Tech.)
Degree

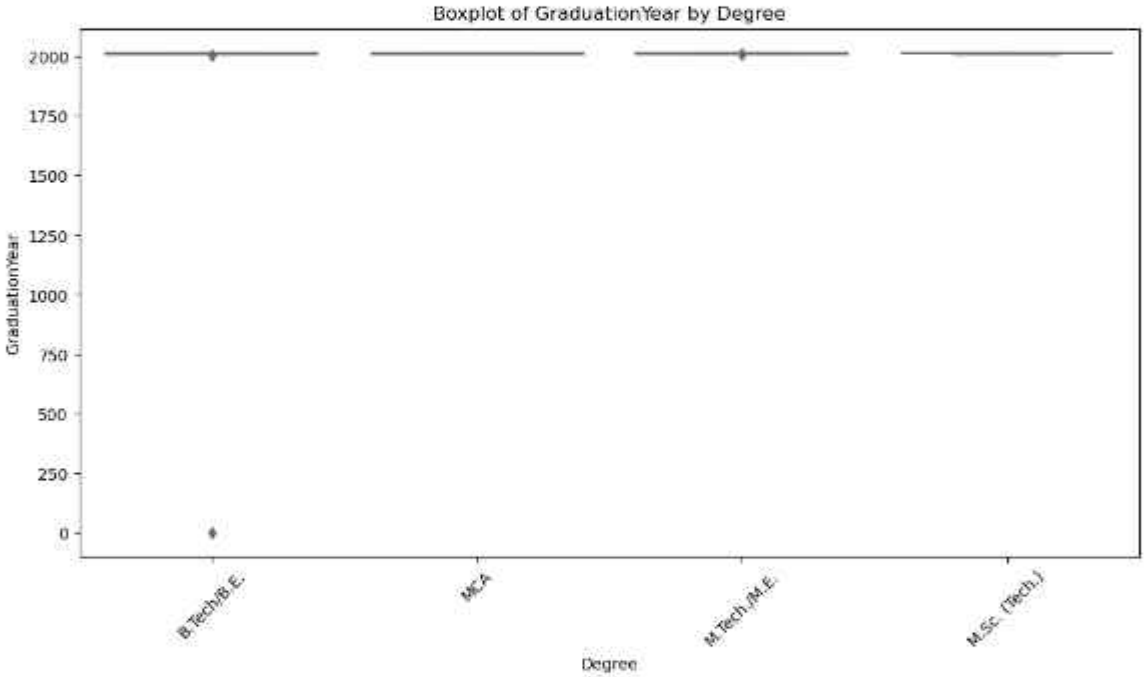

Boxplot of CollegeID by Degree
CollegeID
17500
15000
12500
10000
7500
5000
2500
0
B.Tech/B.E.
MCA
M.Tech./M.E.
M.Sc. (Tech.)
Degree

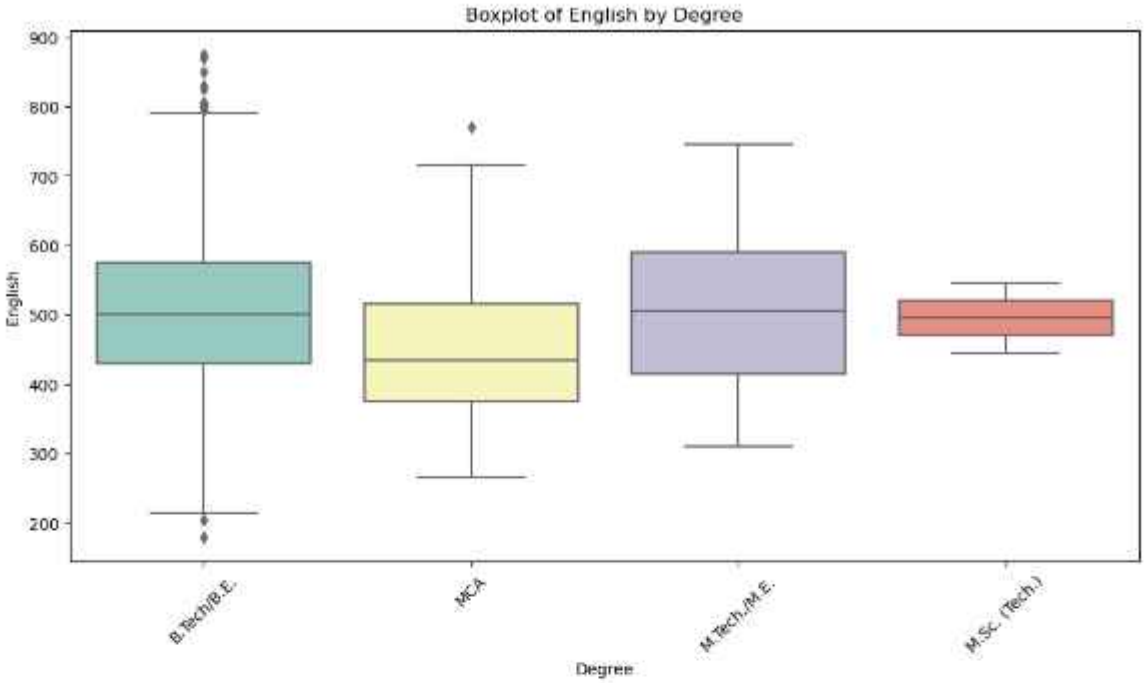

Boxplot of CollegeTier by Degree
CollegeTier
2.0
1.8
1.6
1.4
1.2
1.0
B.Tech/B.E.
MCA
M.Tech./M.E.
M.Sc. (Tech.)
Degree

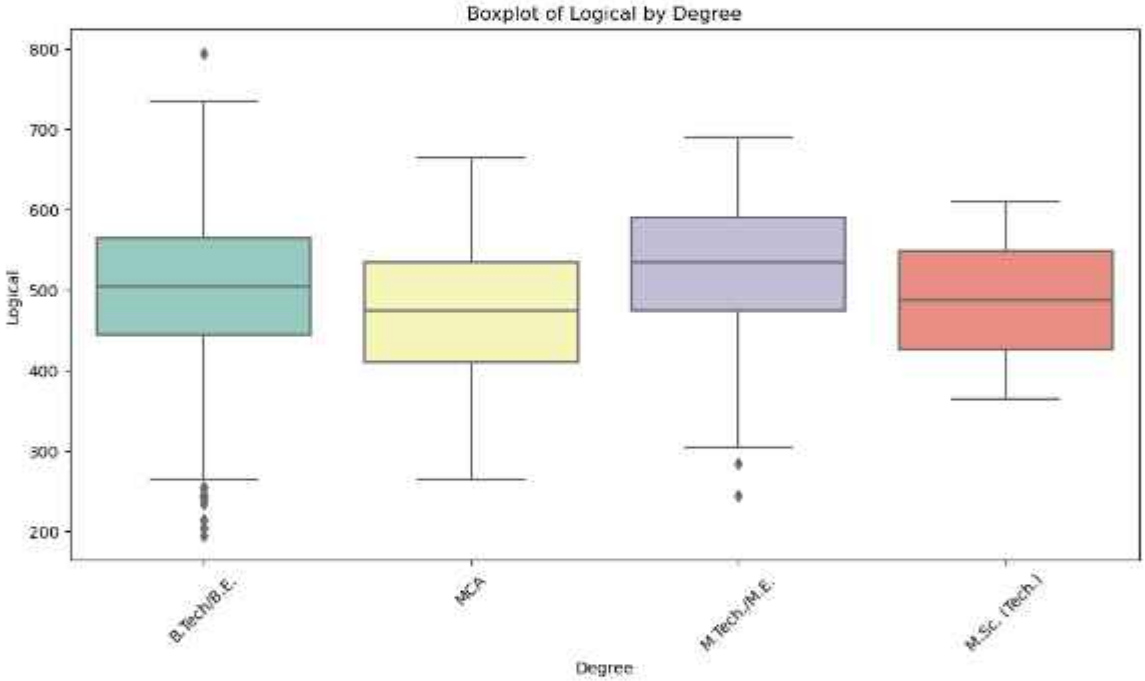

Boxplot of collegeGPA by Degree
collegeGPA
100
80
60
40
20
B.Tech/B.E.
MCA
M.Tech./M.E.
M.Sc. (Tech.)
Degree

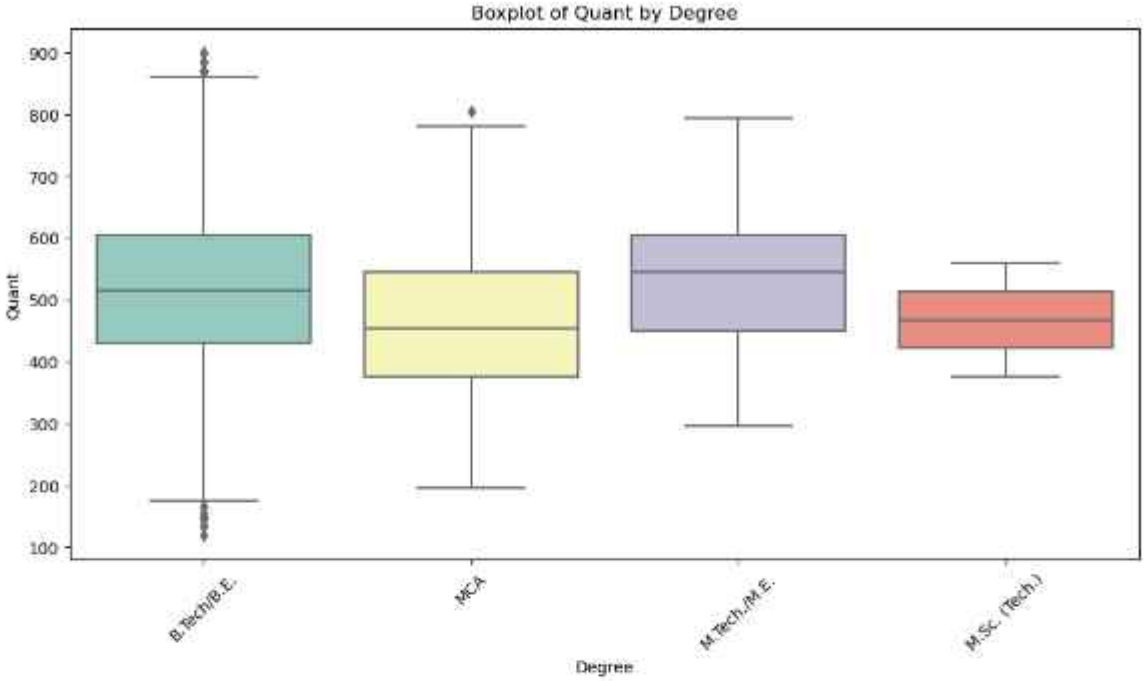

Boxplot of CollegeCityID by Degree
CollegeCityID
17500
15000
12500
10000
7500
5000
2500
0
B.Tech/B.E.
MCA
M.Tech./M.E.
M.Sc. (Tech.)
Degree

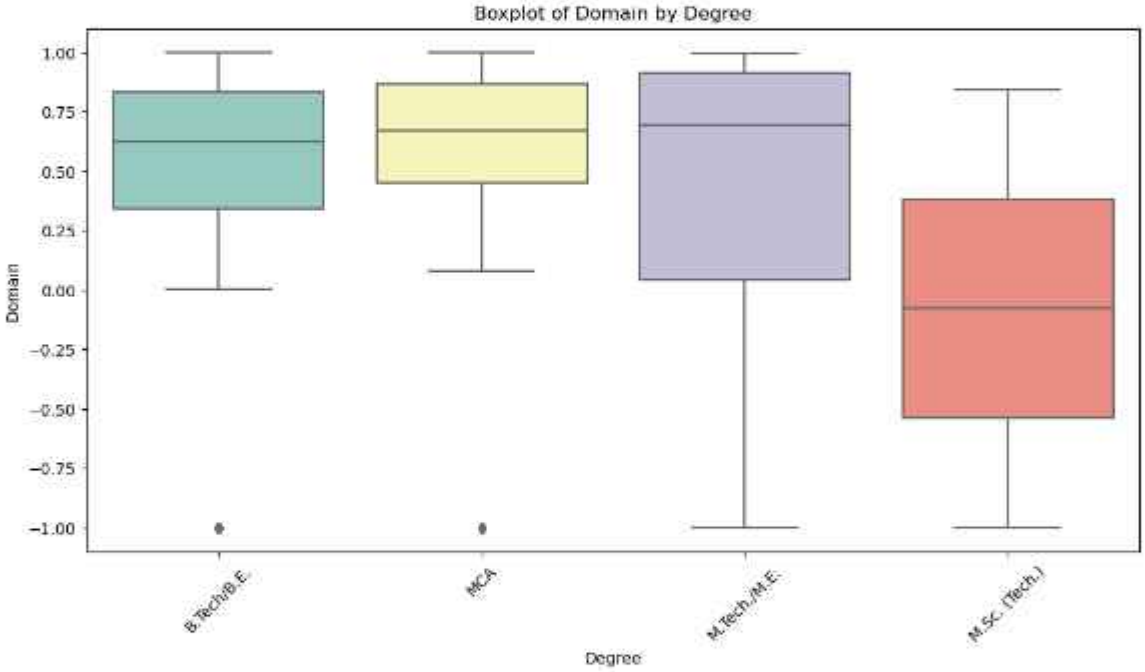

Boxplot of CollegeCityTier by Degree
CollegeCityTier
1.0
0.8
0.6
0.4
0.2
0.0
B.Tech/B.E.
MCA
M.Tech./M.E.
M.Sc. (Tech.)
Degree

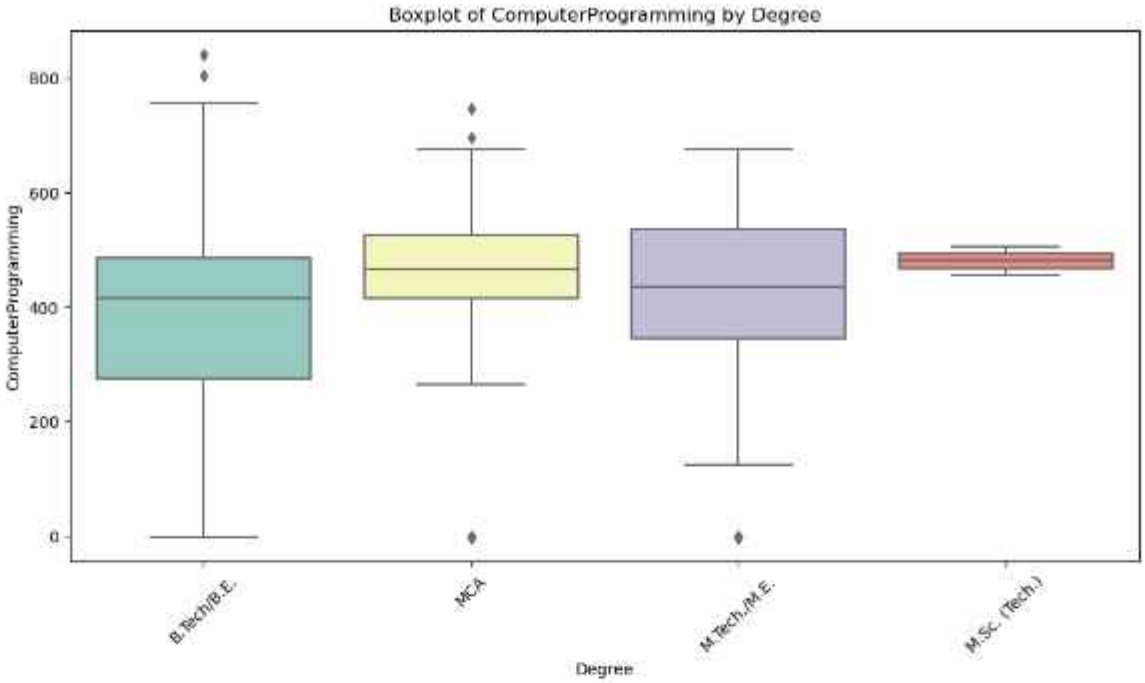

Boxplot of GraduationYear by Degree
GraduationYear
2000
1750
1500
1250
1000
750
500
250
0
B.Tech/B.E.
MCA
M.Tech./M.E.
M.Sc. (Tech.)
Degree

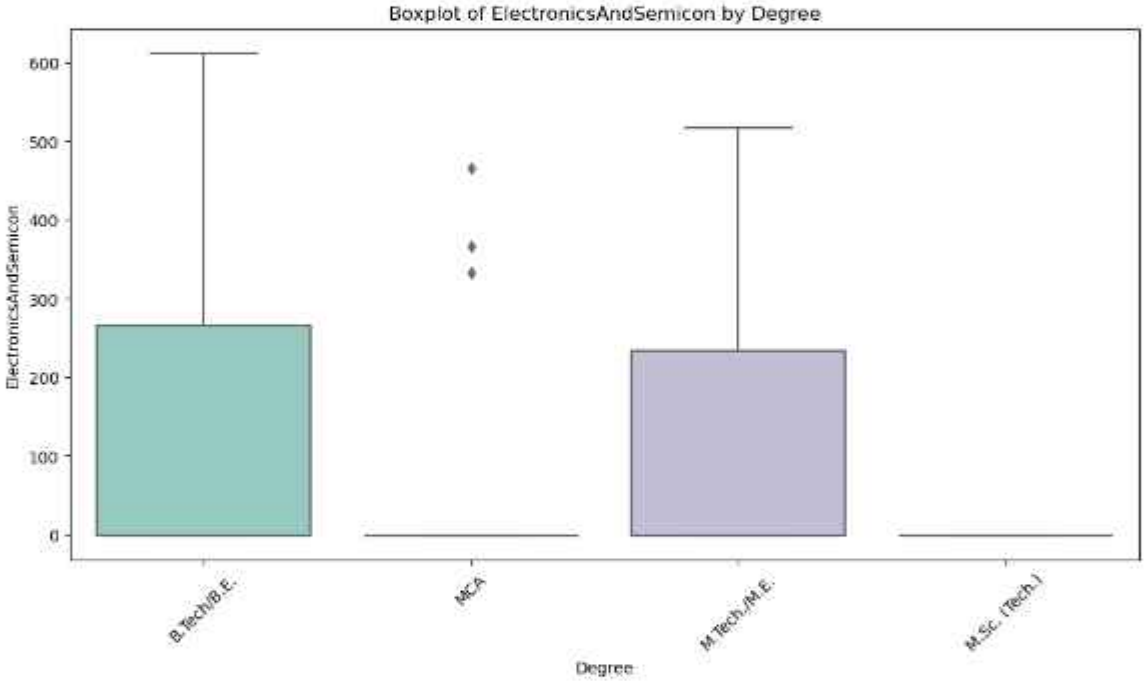

Boxplot of English by Degree
English
900
800
700
600
500
400
300
200
B.Tech/B.E.
MCA
M.Tech./M.E.
M.Sc. (Tech.)
Degree

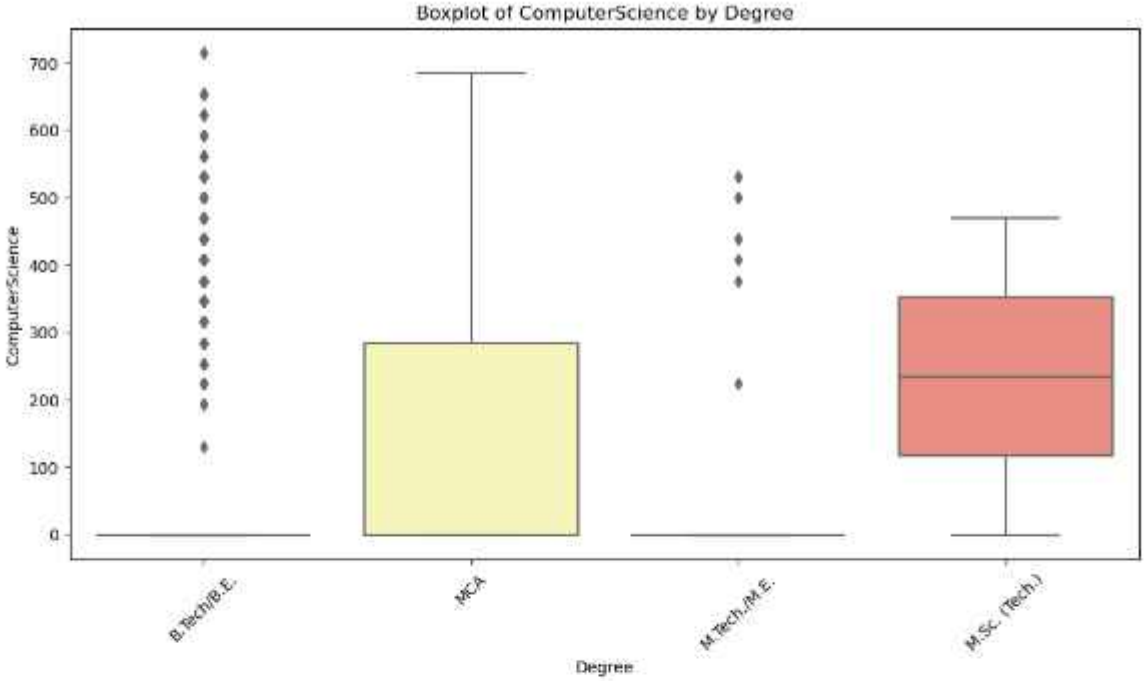

Boxplot of Logical by Degree
Logical
800
700
600
500
400
300
200
B.Tech/B.E.
MCA
M.Tech./M.E.
M.Sc. (Tech.)
Degree

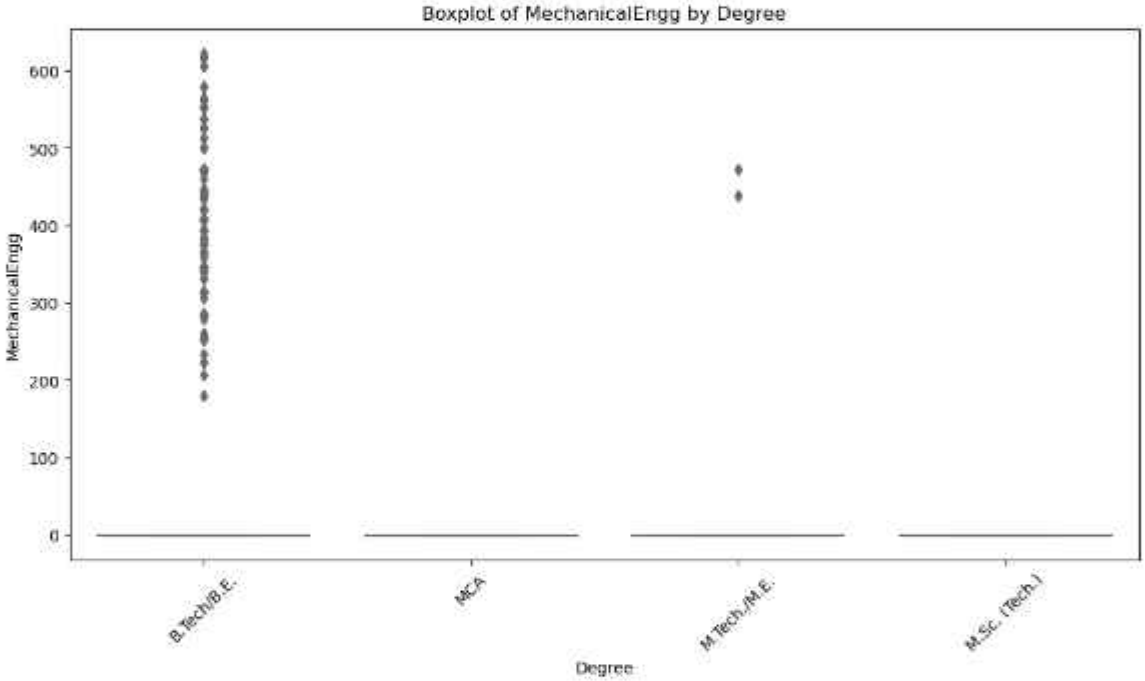

Boxplot of Quant by Degree
Quant
900
800
700
600
500
400
300
200
100
B.Tech/B.E.
MCA
M.Tech./M.E.
M.Sc. (Tech.)
Degree

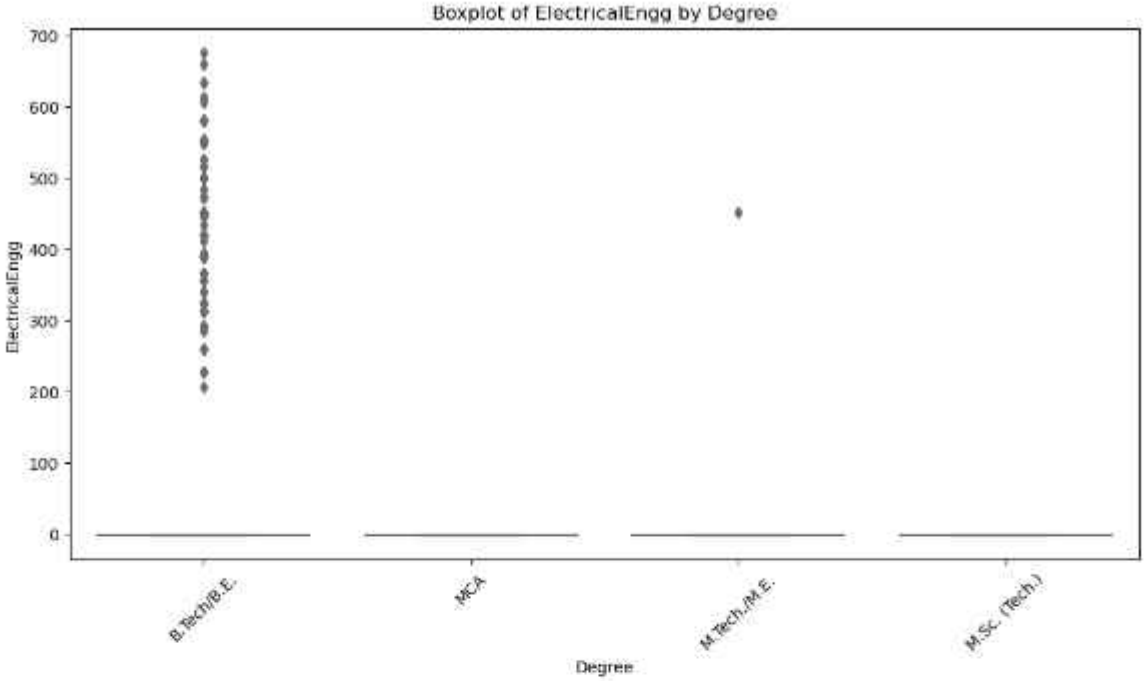

Boxplot of Domain by Degree
Domain
1.00
0.75
0.50
0.25
0.00
−0.25
−0.50
−0.75
−1.00
B.Tech/B.E.
MCA
M.Tech./M.E.
M.Sc. (Tech.)
Degree

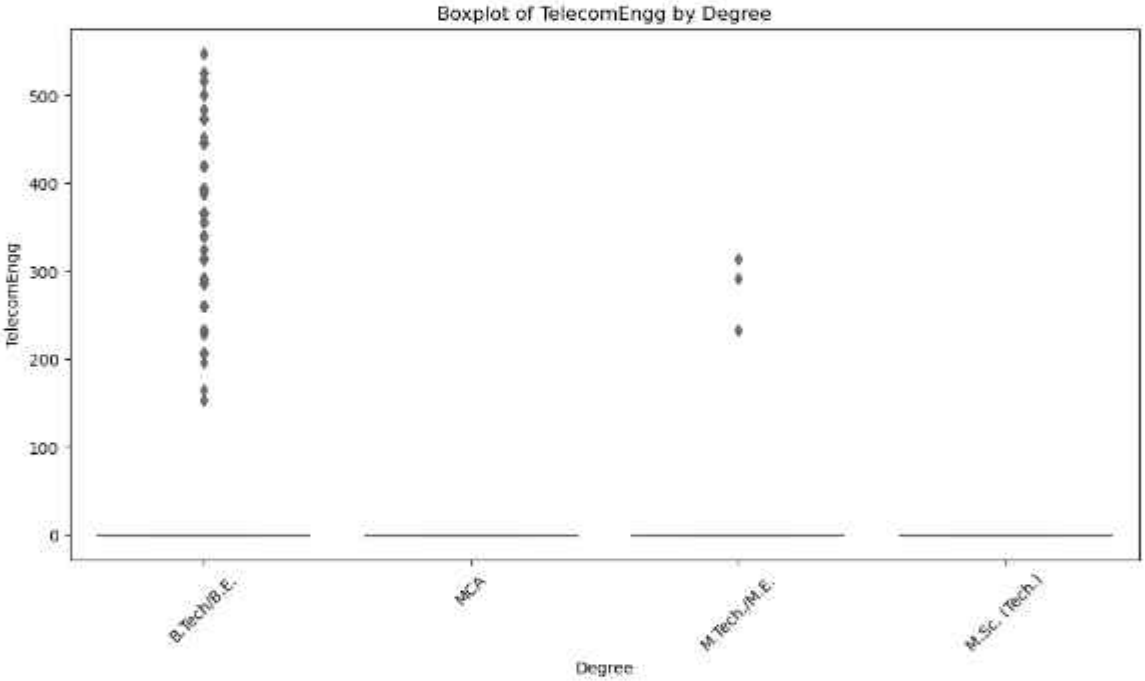

Boxplot of ComputerProgramming by Degree
ComputerProgramming
800
600
400
200
0
B.Tech/B.E.
MCA
M.Tech./M.E.
M.Sc. (Tech.)
Degree

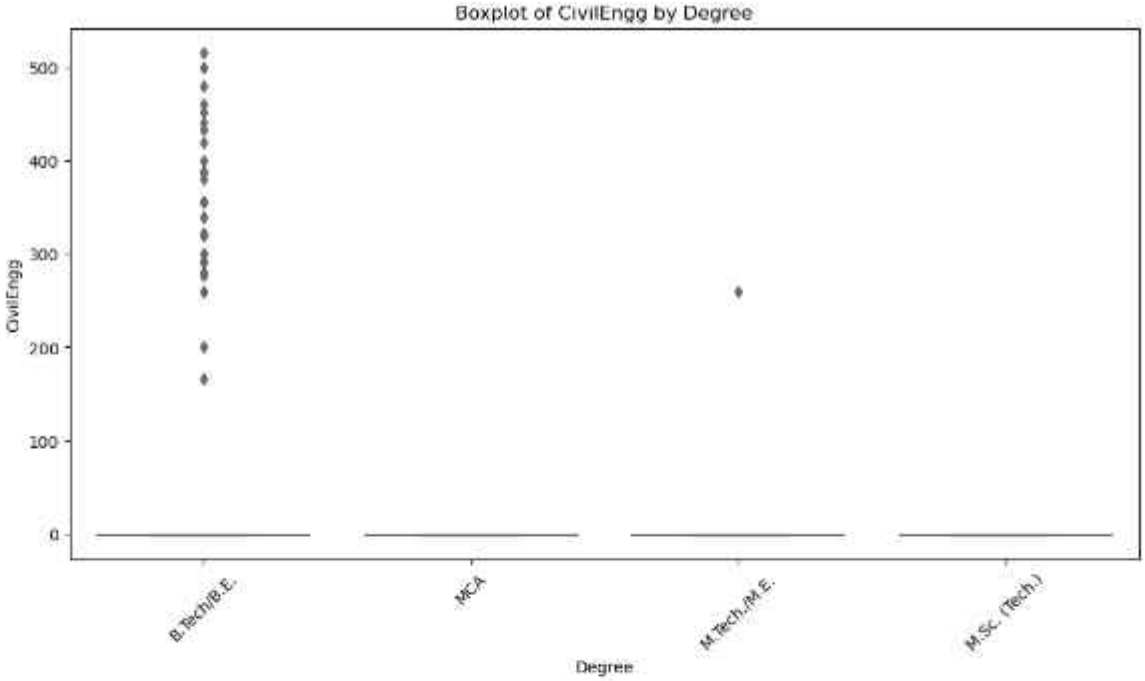

Boxplot of ElectronicsAndSemicon by Degree
ElectronicsAndSemicon
600
500
400
300
200
100
0
B.Tech/B.E.
MCA
M.Tech./M.E.
M.Sc. (Tech.)
Degree

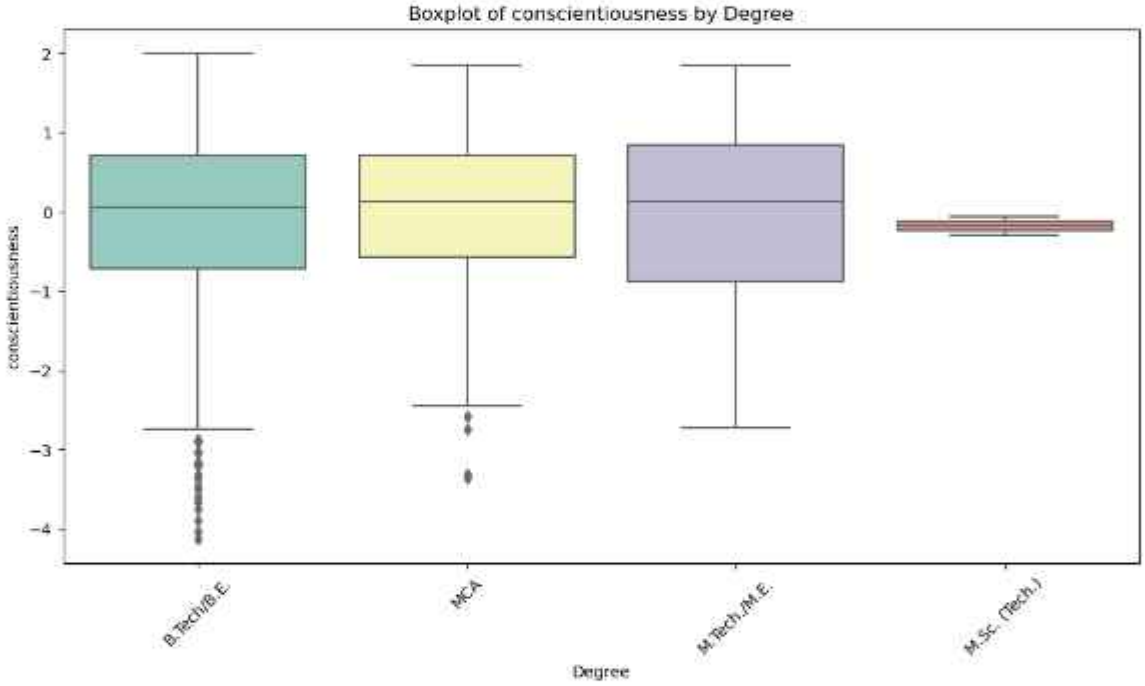

Boxplot of ComputerScience by Degree
ComputerScience
700
600
500
400
300
200
100
0
B.Tech/B.E.
MCA
M.Tech./M.E.
M.Sc. (Tech.)
Degree

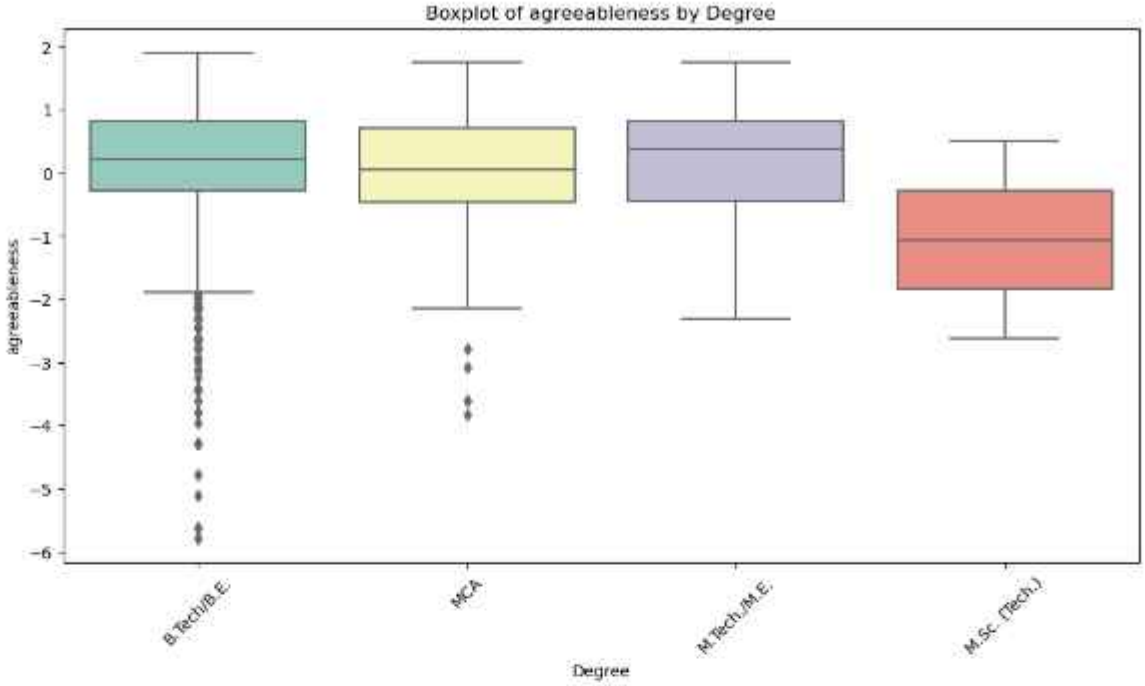

Boxplot of MechanicalEngg by Degree
MechanicalEngg
600
500
400
300
200
100
0
B.Tech/B.E.
MCA
M.Tech./M.E.
M.Sc. (Tech.)
Degree

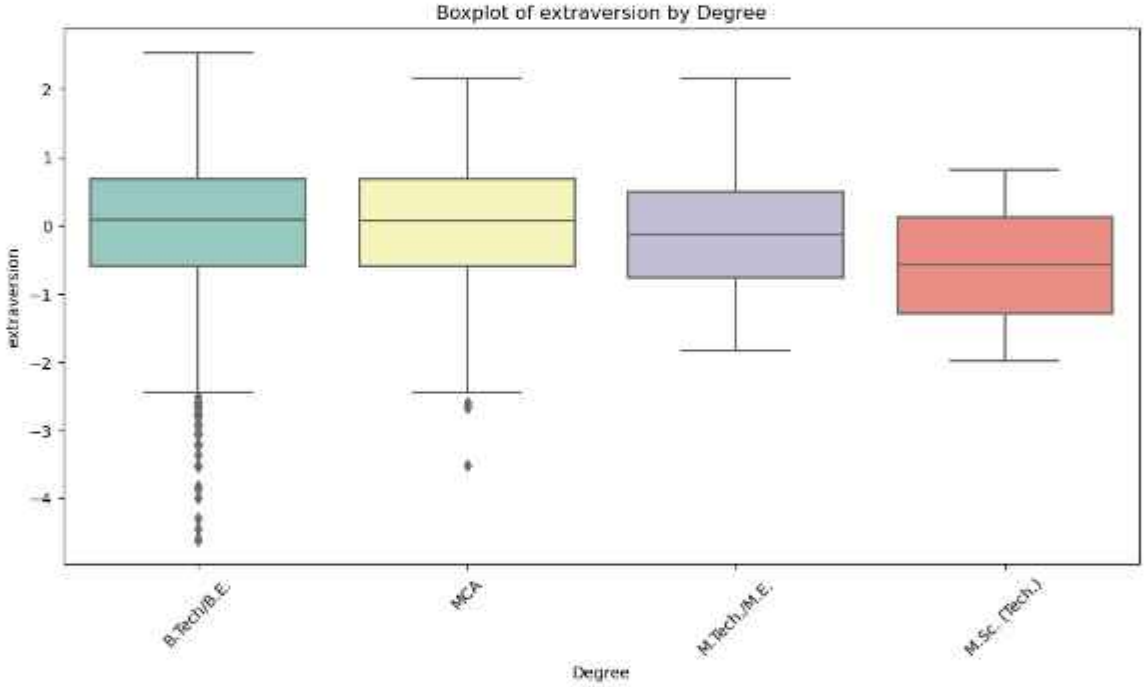

Boxplot of ElectricalEngg by Degree
ElectricalEngg
700
600
500
400
300
200
100
0
B.Tech/B.E.
MCA
M.Tech./M.E.
M.Sc. (Tech.)
Degree

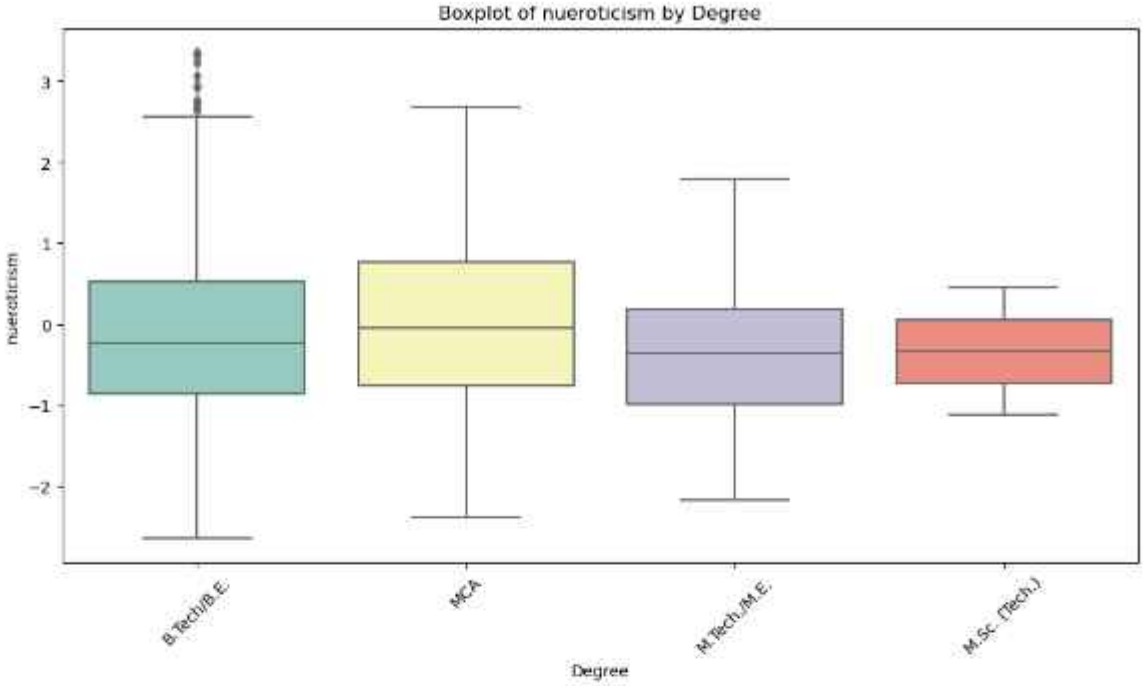

Boxplot of TelecomEngg by Degree
TelecomEngg
500
400
300
200
100
0
B.Tech/B.E.
MCA
M.Tech./M.E.
M.Sc. (Tech.)
Degree

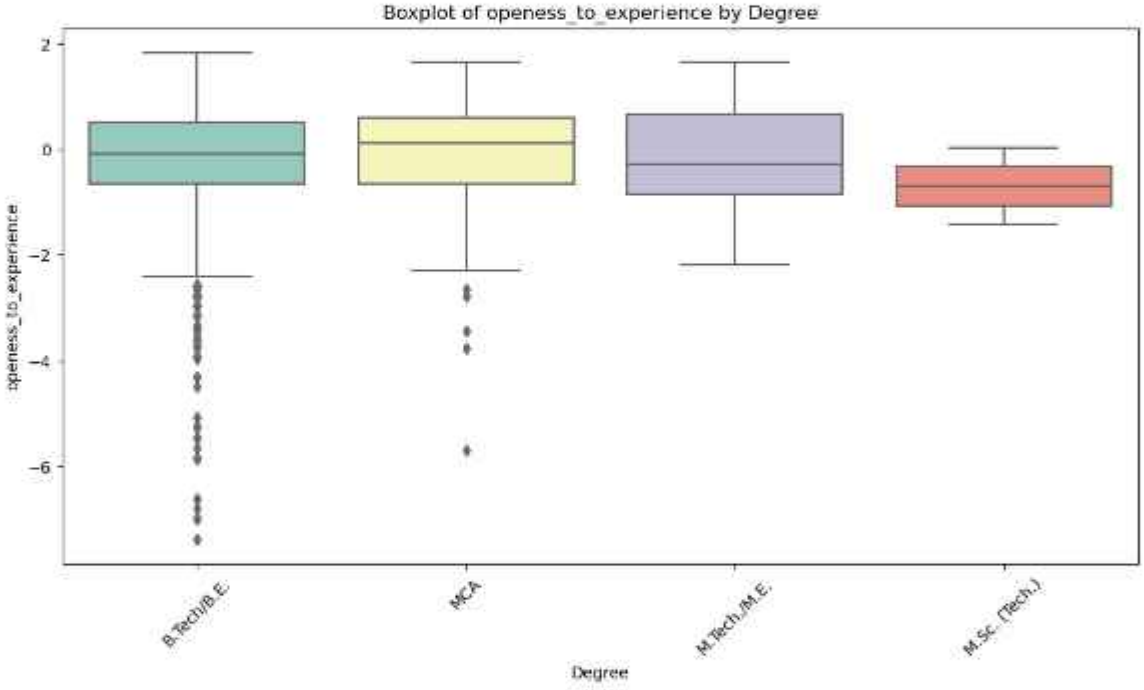

Boxplot of CivilEngg by Degree
CivilEngg
500
400
300
200
100
0
B.Tech/B.E.
MCA
M.Tech./M.E.
M.Sc. (Tech.)
Degree

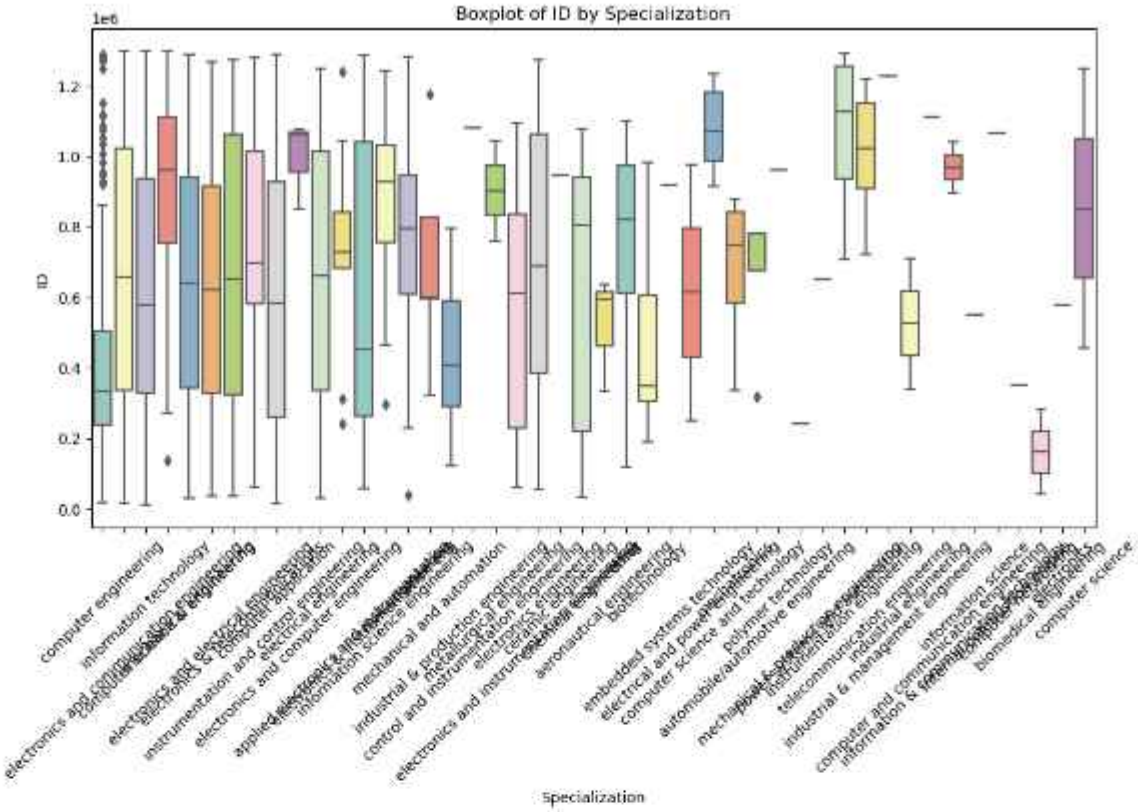

Boxplot of conscientiousness by Degree
conscientiousness
2
1
0
−1
−2
−3
−4
B.Tech/B.E.
MCA
M.Tech./M.E.
M.Sc. (Tech.)
Degree

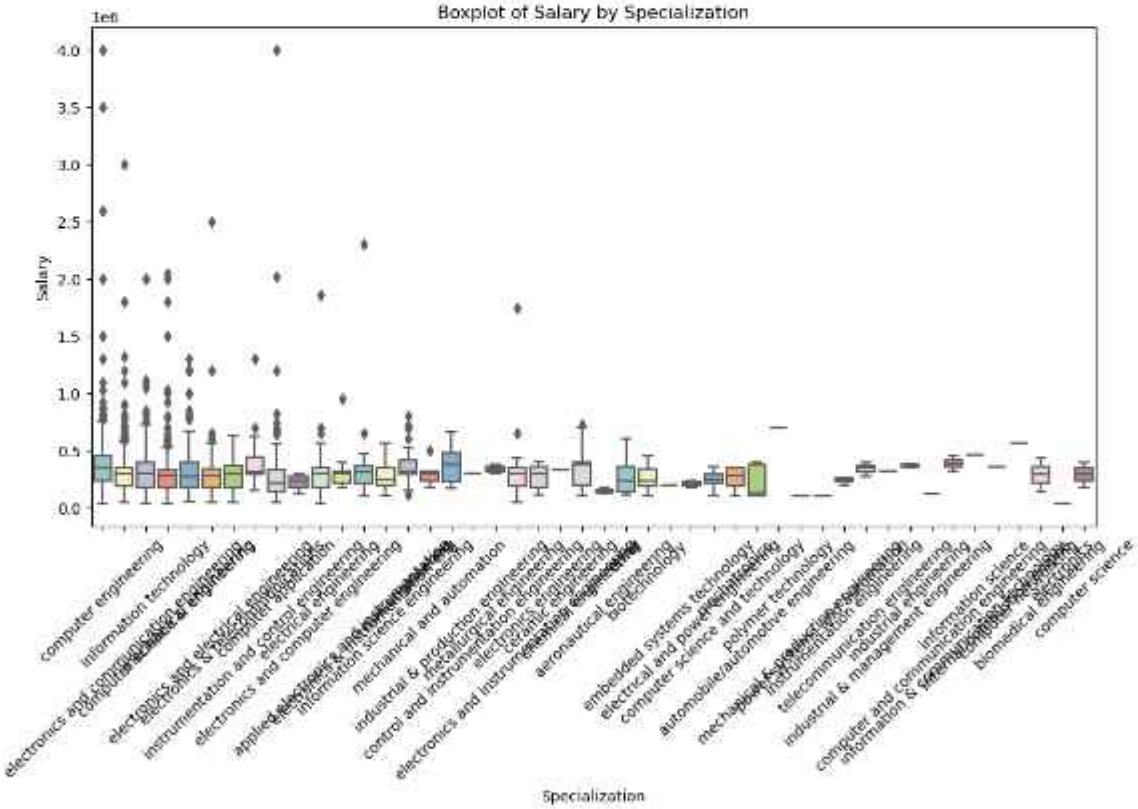

Boxplot of agreeableness by Degree
agreeableness
2
1
0
−1
−2
−3
−4
−5
−6
B.Tech/B.E.
MCA
M.Tech./M.E.
M.Sc. (Tech.)
Degree

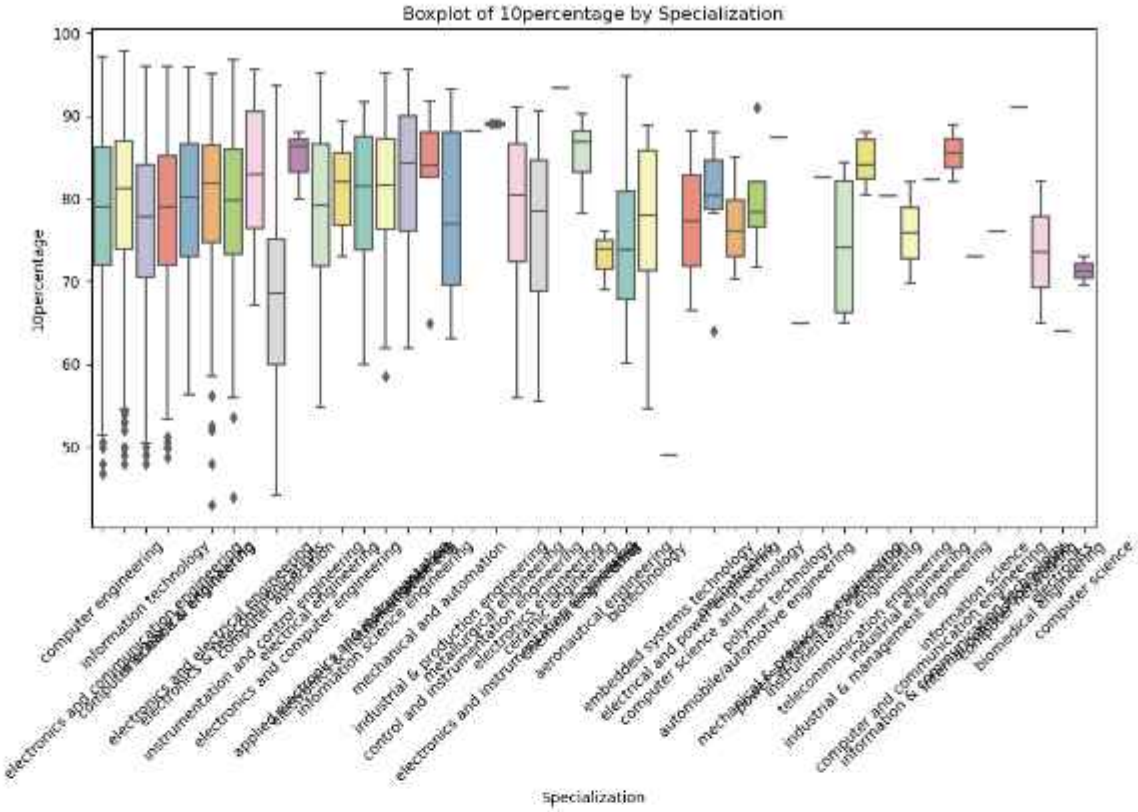

Boxplot of extraversion by Degree
extraversion
2
1
0
−1
−2
−3
−4
B.Tech/B.E.
MCA
M.Tech./M.E.
M.Sc. (Tech.)
Degree

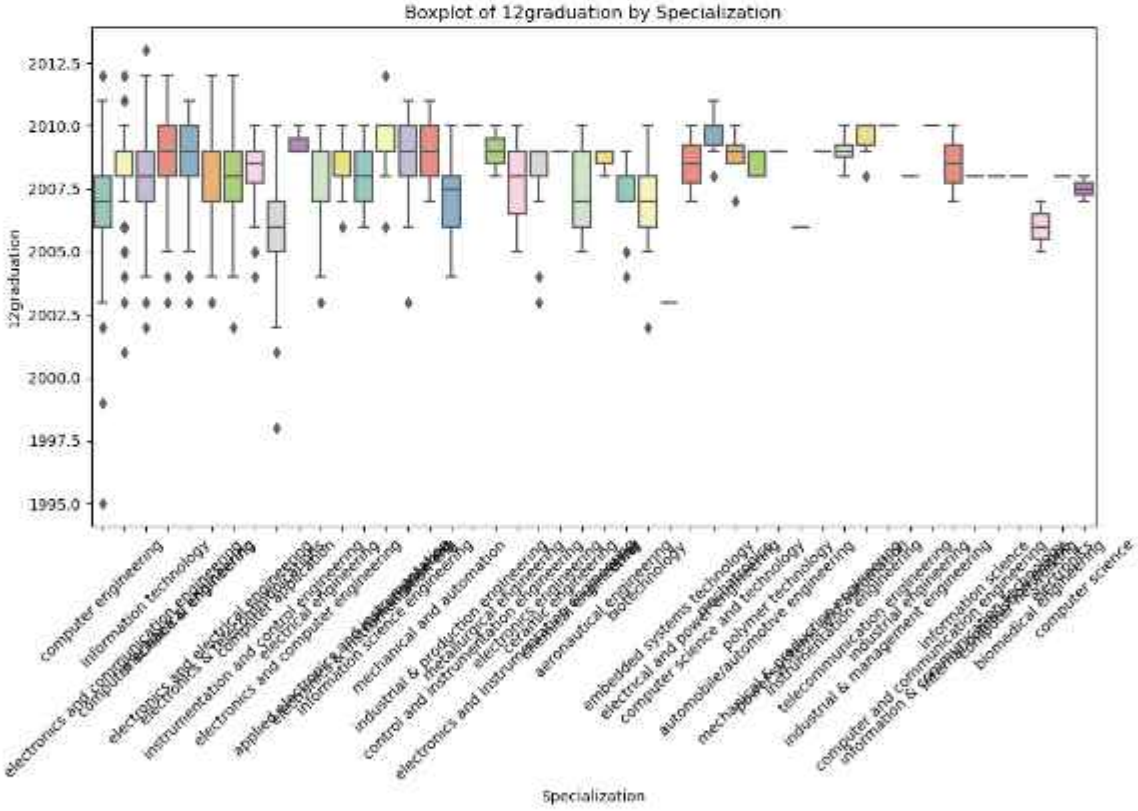

Boxplot of nueroticism by Degree
nueroticism
3
2
1
0
−1
−2
B.Tech/B.E.
MCA
M.Tech./M.E.
M.Sc. (Tech.)
Degree

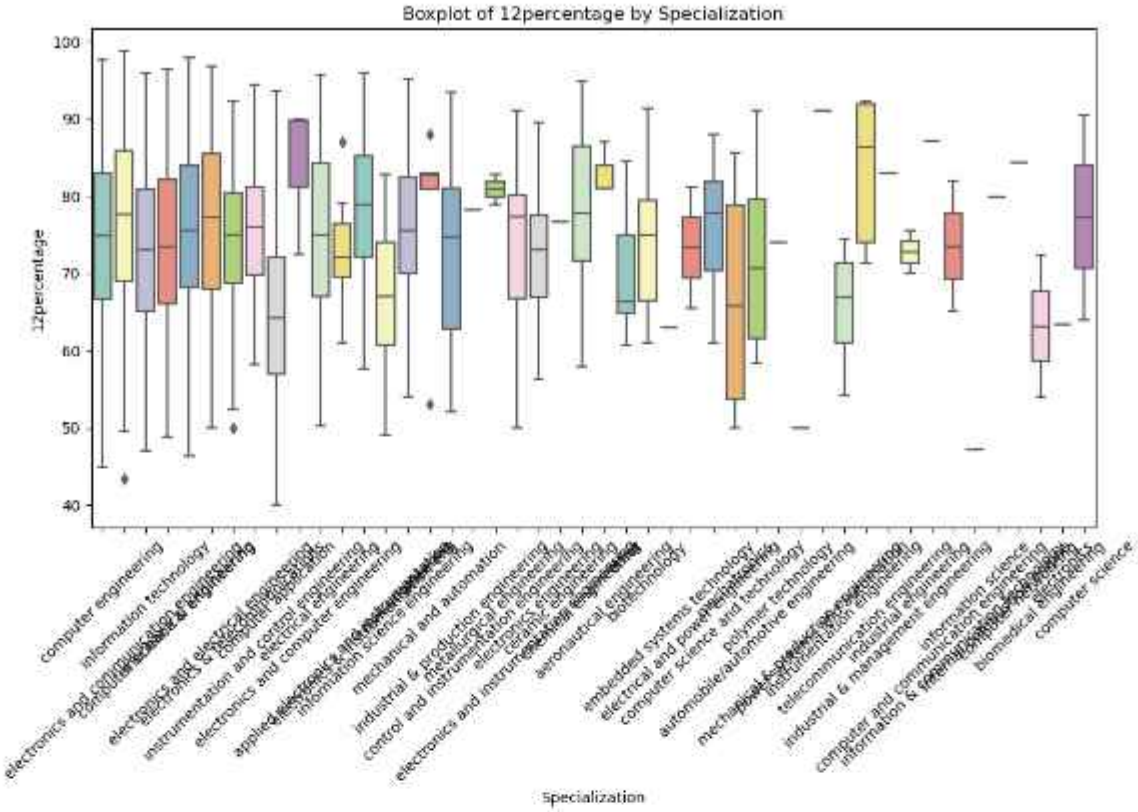

Boxplot of openess_to_experience by Degree
openess_to_experience
2
0
−2
−4
−6
B.Tech/B.E.
MCA
M.Tech./M.E.
M.Sc. (Tech.)
Degree

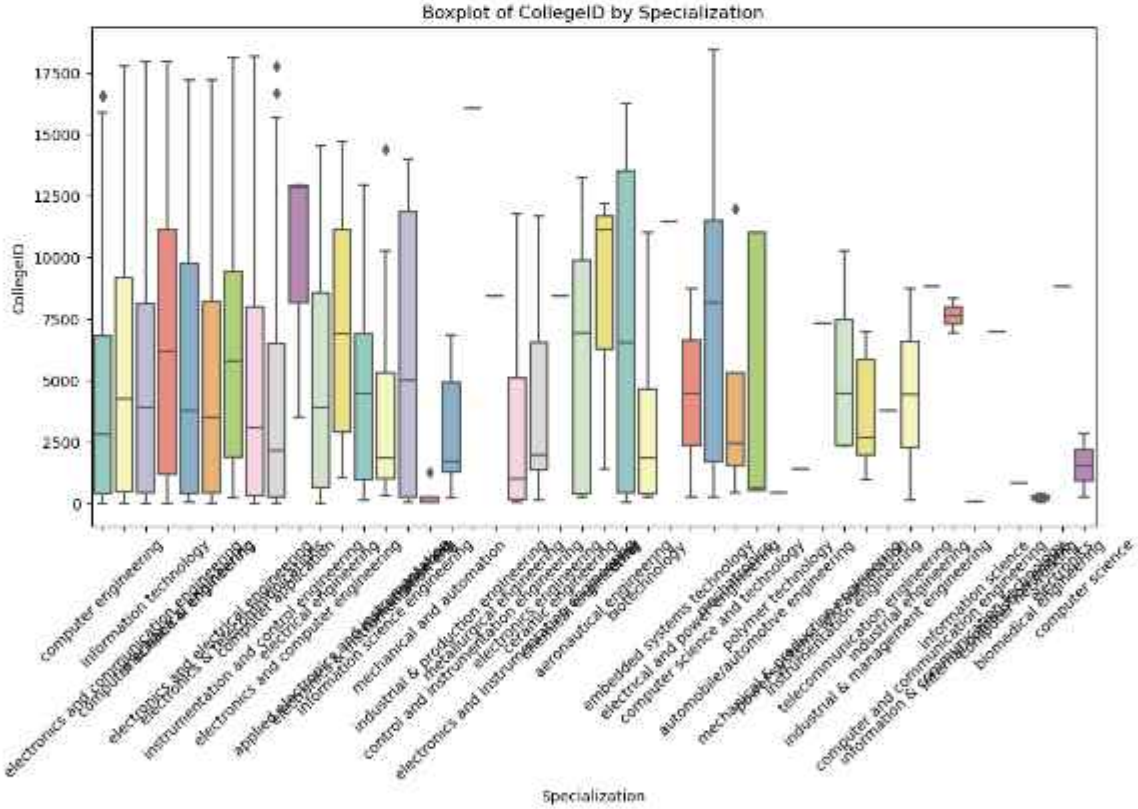

Boxplot of ID by Specialization
1e6
ID
Specialization
computer engineering
information technology
electronics and communication engineering
electronics and electrical engineering
instrumentation and control engineering
electronics and computer engineering
mechanical and automation
industrial & production engineering
control and instrumentation engineering
electronics and instrumentation engineering
aeronautical engineering
biotechnology
embedded systems technology
electrical and power engineering
computer science and technology
polymer technology
automobile/automotive engineering
telecommunication engineering
industrial & management engineering
information science
computer and communication engineering
biomedical engineering
computer science

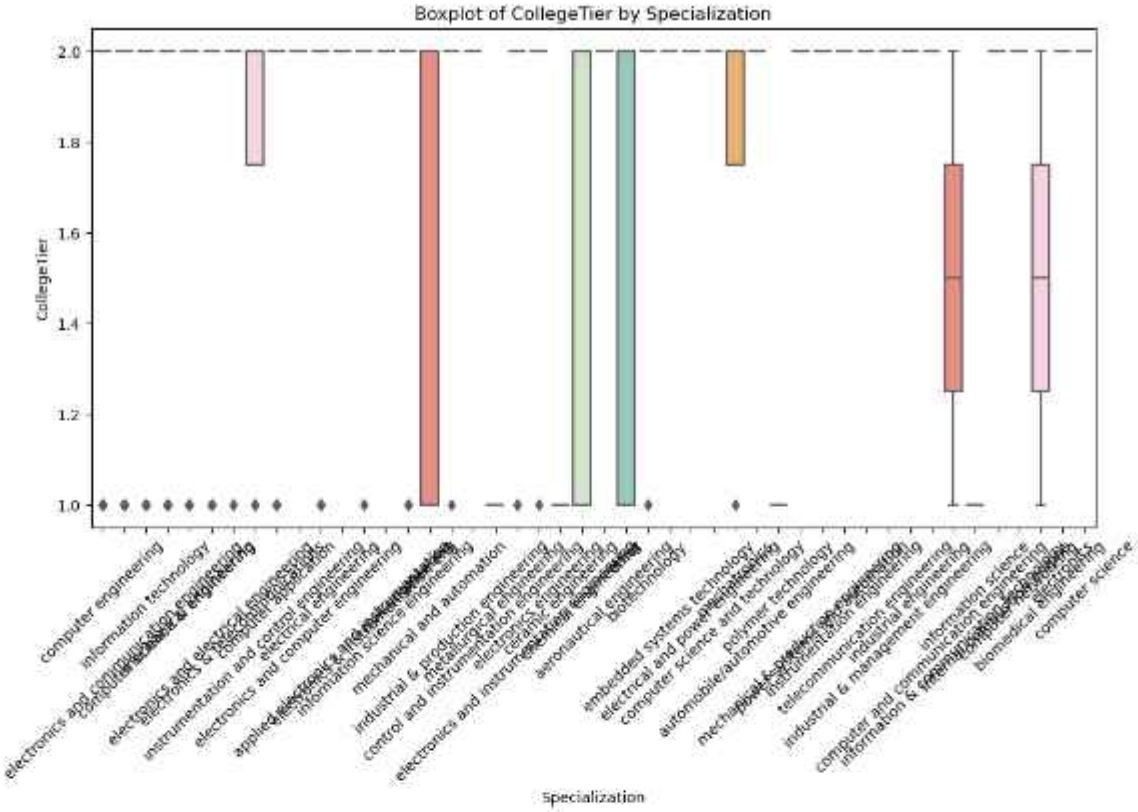

Boxplot of Salary by Specialization
1e6
Salary
Specialization
computer engineering
information technology
electronics and communication engineering
electronics and electrical engineering
instrumentation and control engineering
electronics and computer engineering
mechanical and automation
industrial & production engineering
control and instrumentation engineering
electronics and instrumentation engineering
aeronautical engineering
biotechnology
embedded systems technology
electrical and power engineering
computer science and technology
polymer technology
automobile/automotive engineering
telecommunication engineering
industrial & management engineering
information science
computer and communication engineering
biomedical engineering
computer science


Boxplot of 10percentage by Specialization
10percentage
100
90
80
70
60
50
computer engineering
information technology
electronics and communication engineering
electronics and electrical engineering
instrumentation and control engineering
electronics and computer engineering
mechanical and automation
industrial & production engineering
metallurgical engineering
control and instrumentation engineering
electronics engineering
ceramic engineering
aeronautical engineering
biotechnology
embedded systems technology
electrical and power engineering
computer science and technology
polymer technology
automobile/automotive engineering
instrumentation engineering
telecommunication engineering
industrial engineering
industrial & management engineering
information science
computer and communication engineering
biomedical engineering
electronics
computer science
Specialization


Boxplot of 12graduation by Specialization
12graduation
2012.5
2010.0
2007.5
2005.0
2002.5
2000.0
1997.5
1995.0
computer engineering
information technology
electronics and communication engineering
electronics and electrical engineering
instrumentation and control engineering
electronics and computer engineering
mechanical and automation
industrial & production engineering
metallurgical engineering
control and instrumentation engineering
electronics engineering
ceramic engineering
aeronautical engineering
biotechnology
embedded systems technology
electrical and power engineering
computer science and technology
polymer technology
automobile/automotive engineering
instrumentation engineering
telecommunication engineering
industrial engineering
industrial & management engineering
information science
computer and communication engineering
biomedical engineering
electronics
computer science
Specialization


Boxplot of 12percentage by Specialization
12percentage
100
90
80
70
60
50
40
computer engineering
information technology
electronics and communication engineering
electronics and electrical engineering
instrumentation and control engineering
electronics and computer engineering
electrical engineering
mechanical and automation
industrial & production engineering
control and instrumentation engineering
electronics and instrumentation engineering
aeronautical engineering
biotechnology
embedded systems technology
electrical and power engineering
computer science and technology
polymer technology
automobile/automotive engineering
telecommunication engineering
industrial & management engineering
information science
computer and communication engineering
biomedical engineering
electronics
computer science
Specialization


Boxplot of CollegeID by Specialization
CollegeID
17500
15000
12500
10000
7500
5000
2500
0
computer engineering
information technology
electronics and communication engineering
electronics and electrical engineering
instrumentation and control engineering
electronics and computer engineering
electrical engineering
mechanical and automation
industrial & production engineering
control and instrumentation engineering
electronics and instrumentation engineering
aeronautical engineering
biotechnology
embedded systems technology
electrical and power engineering
computer science and technology
polymer technology
automobile/automotive engineering
telecommunication engineering
industrial & management engineering
information science
computer and communication engineering
biomedical engineering
electronics
computer science
Specialization


Boxplot of CollegeTier by Specialization
CollegeTier
2.0
1.8
1.6
1.4
1.2
1.0
computer engineering
information technology
electronics and communication engineering
electronics and electrical engineering
instrumentation and control engineering
electronics and computer engineering
electrical engineering
mechanical and automation
industrial & production engineering
metallurgical engineering
control and instrumentation engineering
electronics engineering
ceramic engineering
aeronautical engineering
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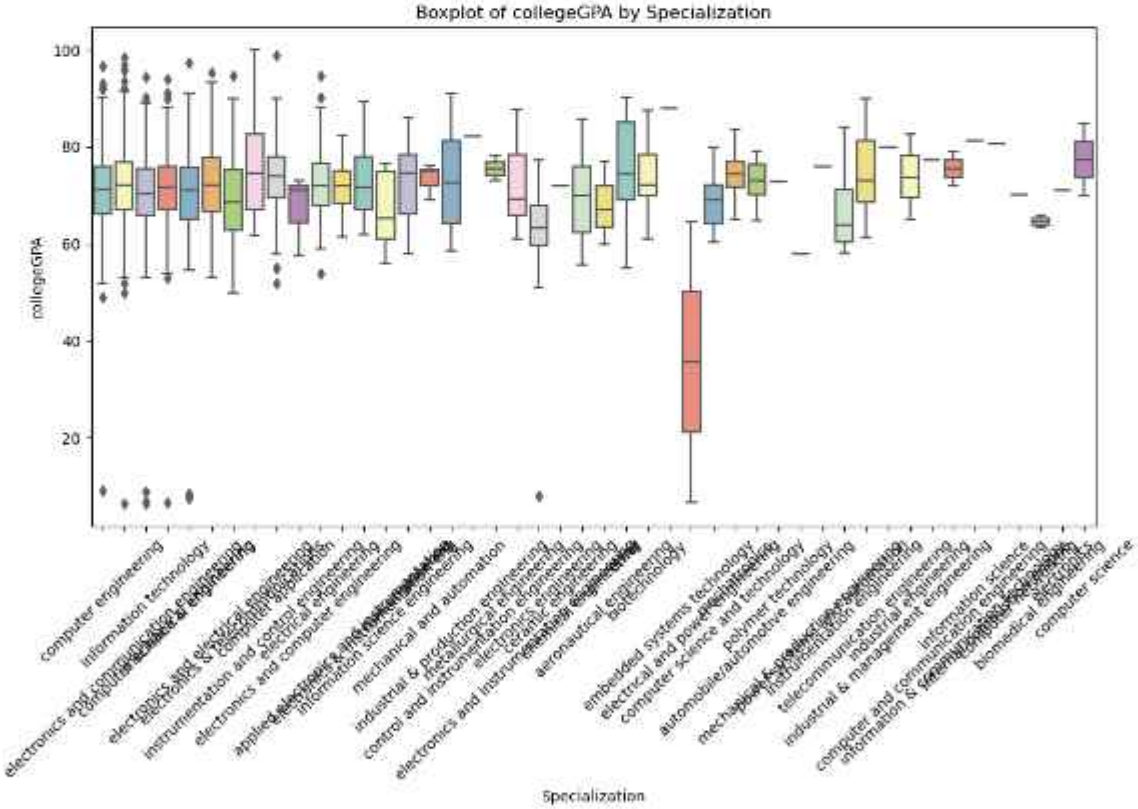
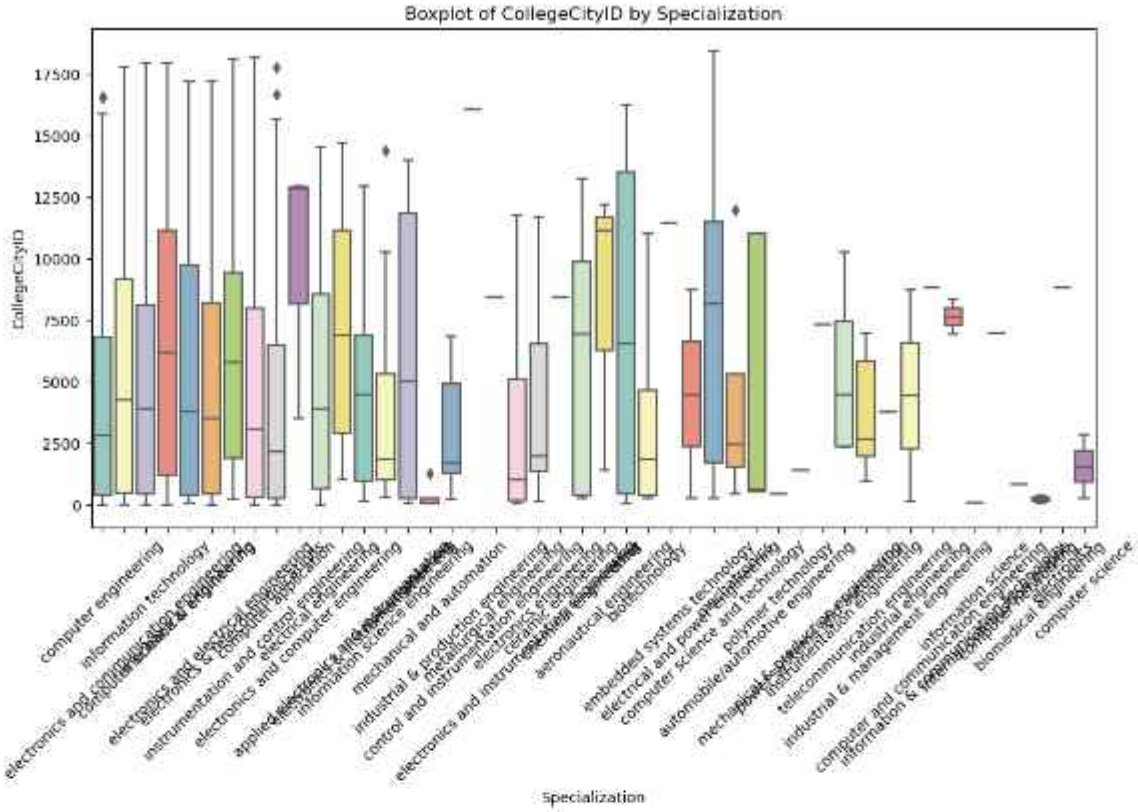
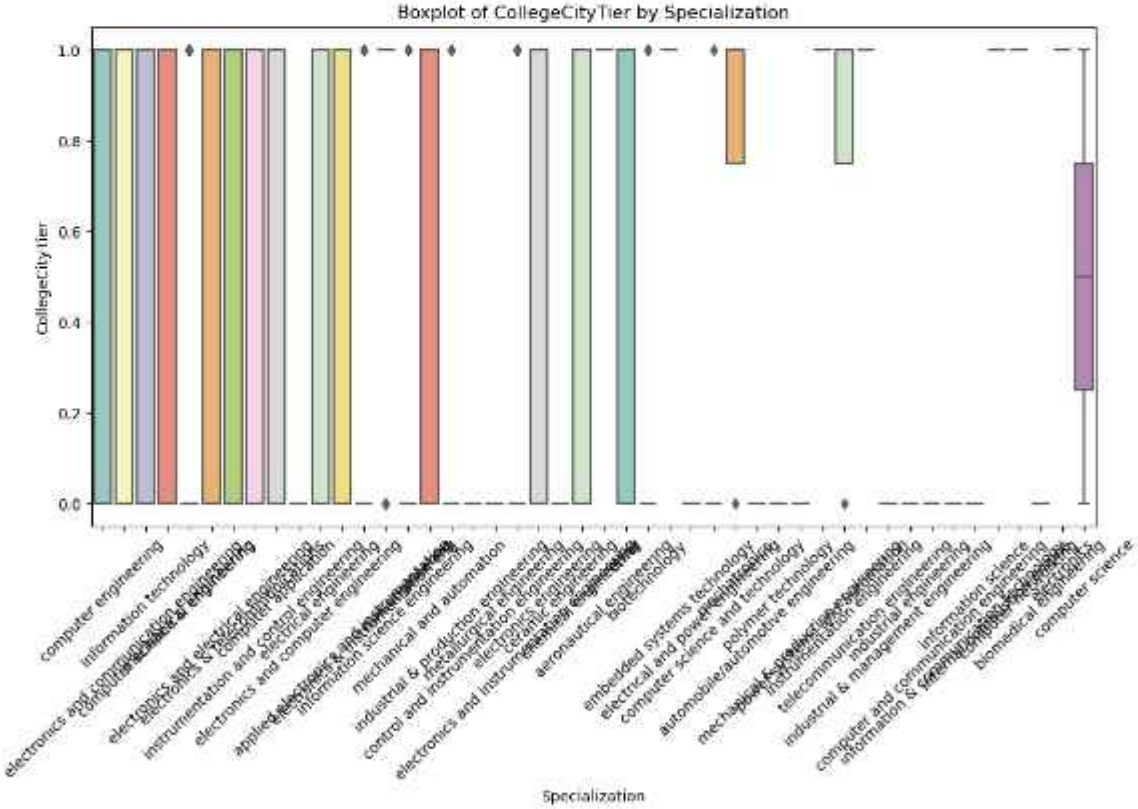
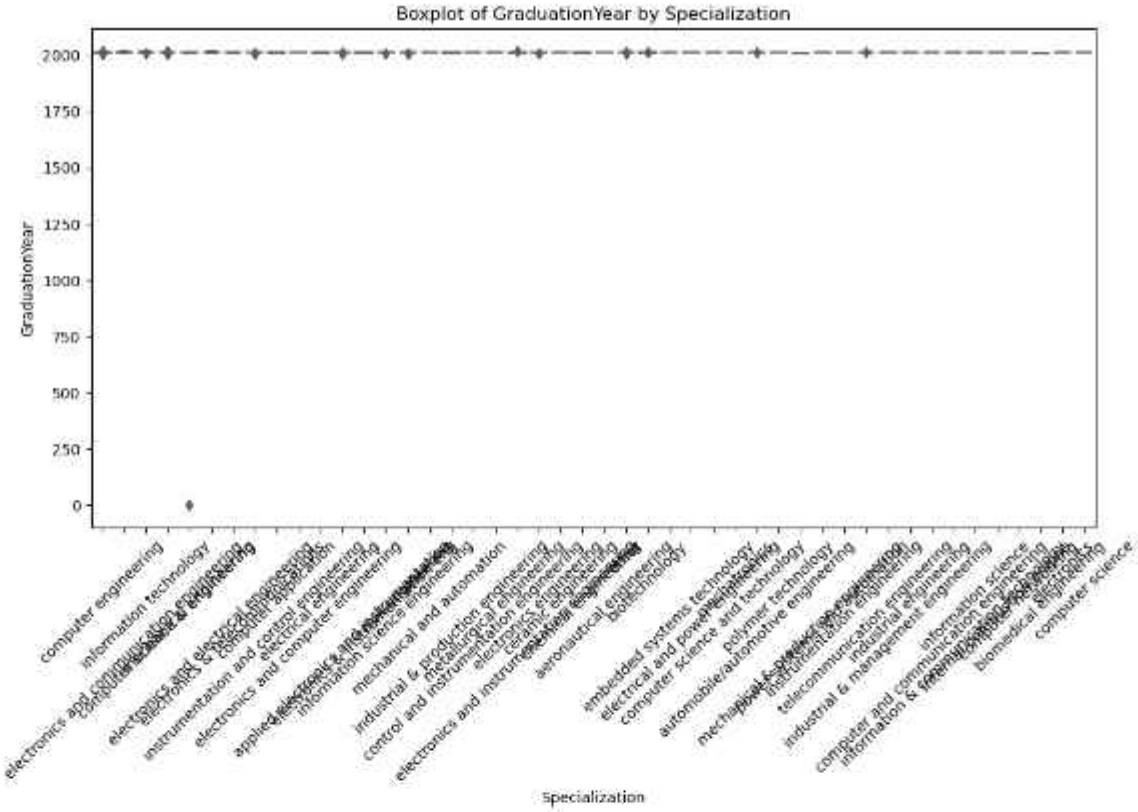
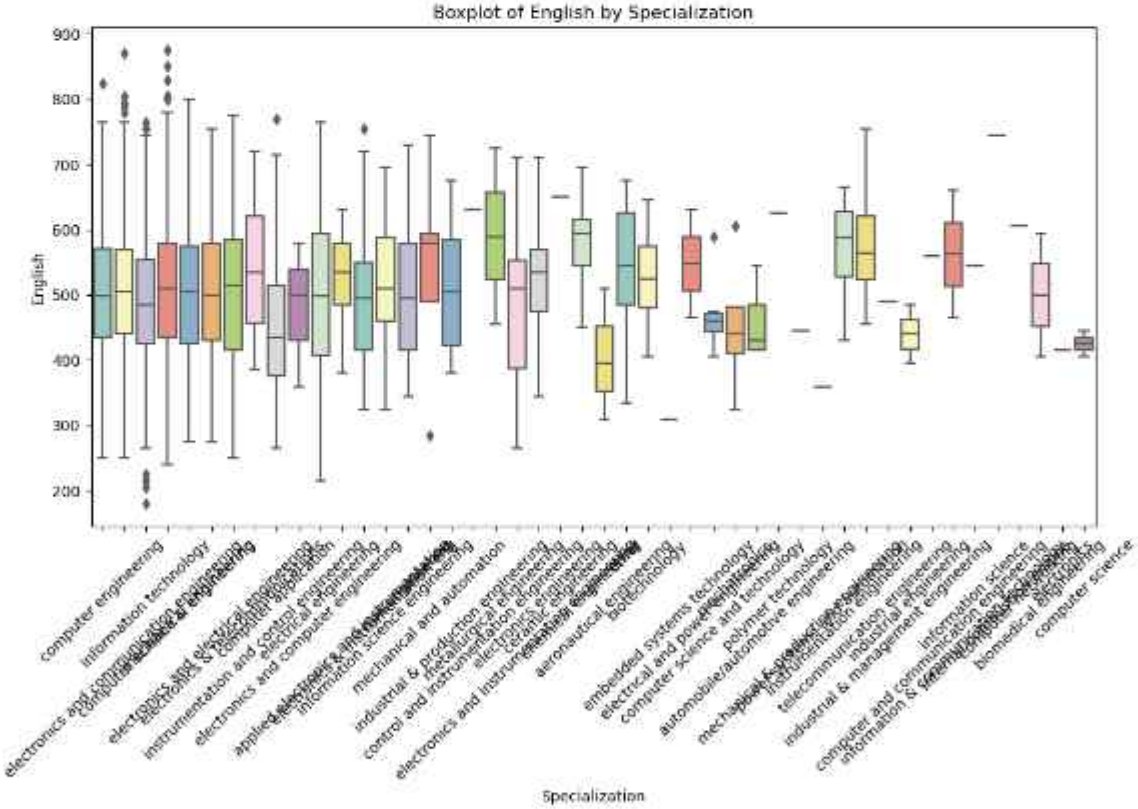
electrical and power engineering
computer science and technology
polymer technology
automobile/automotive engineering
instrumentation engineering
telecommunication engineering
industrial & management engineering
information science
computer and communication engineering
biomedical engineering
computer science
Specialization

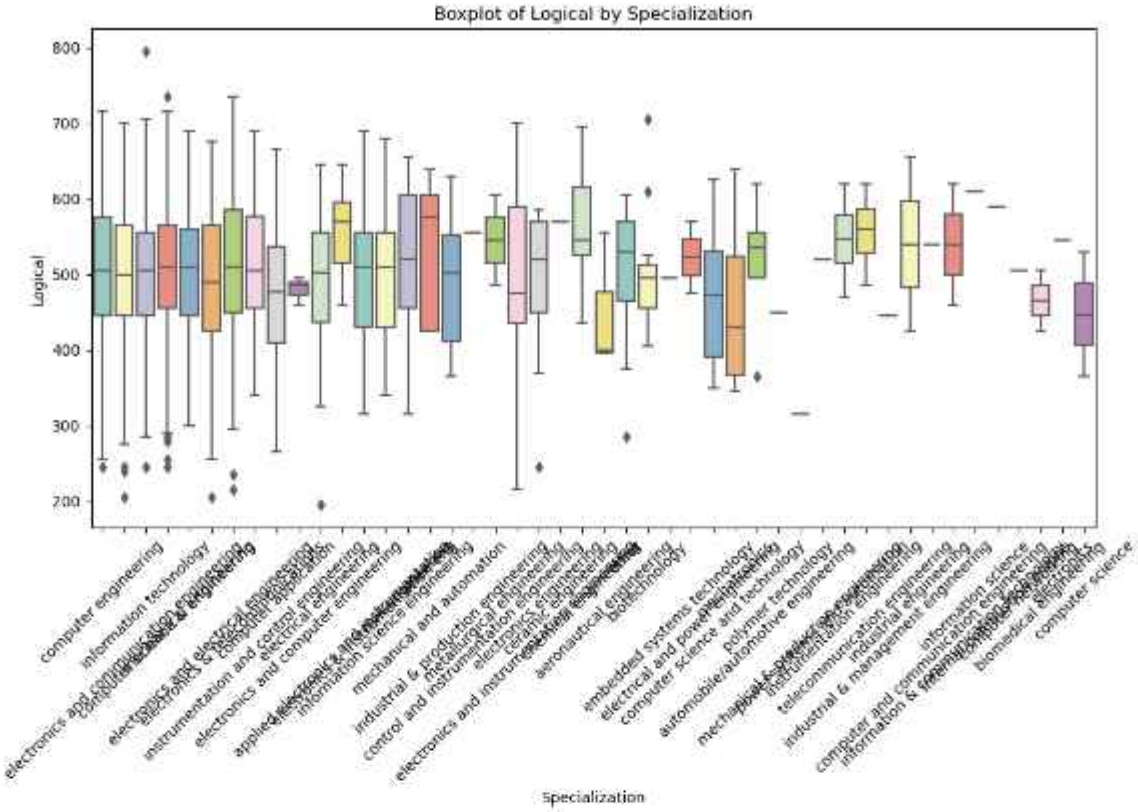

Boxplot of collegeGPA by Specialization
collegeGPA
100
80
60
40
20
computer engineering
information technology
electronics and communication engineering
electronics and electrical engineering
instrumentation and control engineering
electronics and computer engineering
electrical engineering
mechanical and automation
industrial & production engineering
metallurgical engineering
control and instrumentation engineering
electronics engineering
ceramic engineering
aeronautical engineering
biotechnology
embedded systems technology
electrical and power engineering
computer science and technology
polymer technology
automobile/automotive engineering
instrumentation engineering
telecommunication engineering
industrial & management engineering
information science
computer and communication engineering
biomedical engineering
computer science
Specialization

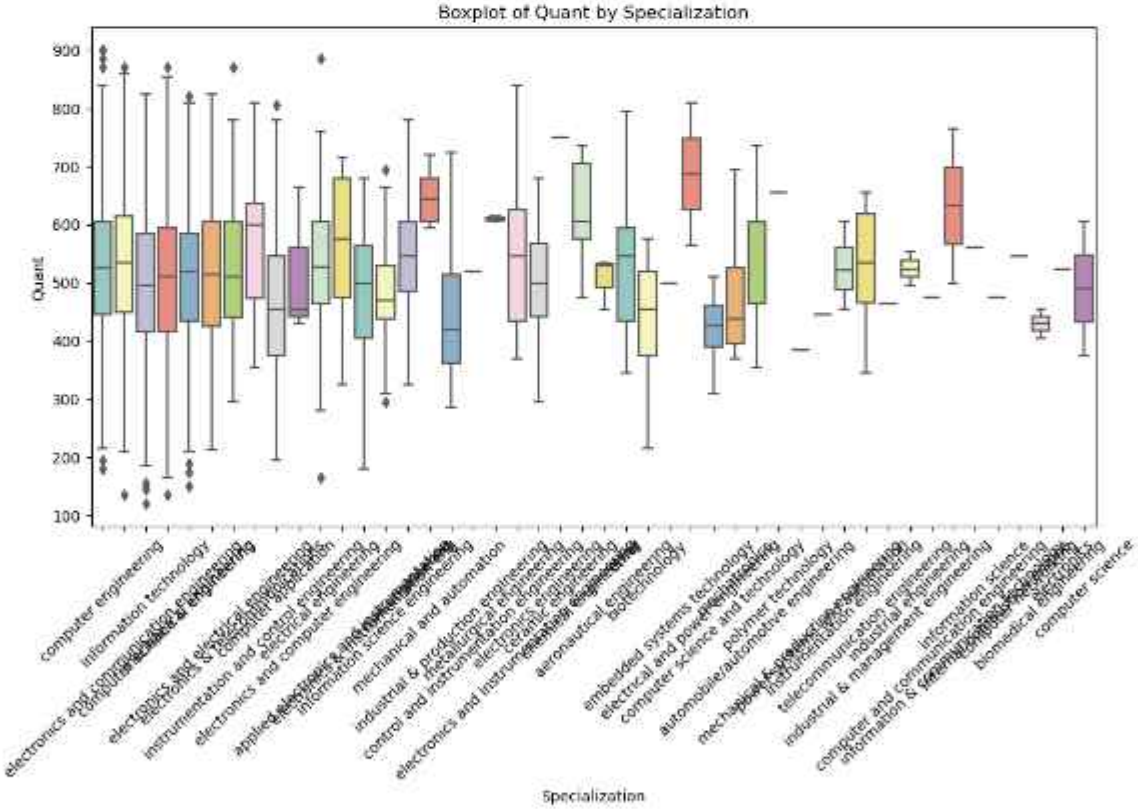

Boxplot of CollegeCityID by Specialization
CollegeCityID
17500
15000
12500
10000
7500
5000
2500
0
computer engineering
information technology
electronics and communication engineering
electronics and electrical engineering
instrumentation and control engineering
electronics and computer engineering
electrical engineering
mechanical and automation
industrial & production engineering
metallurgical engineering
control and instrumentation engineering
electronics engineering
ceramic engineering
aeronautical engineering
biotechnology
embedded systems technology
electrical and power engineering
computer science and technology
polymer technology
automobile/automotive engineering
instrumentation engineering
telecommunication engineering
industrial engineering
industrial & management engineering
information science
computer and communication engineering
biomedical engineering
computer science
Specialization

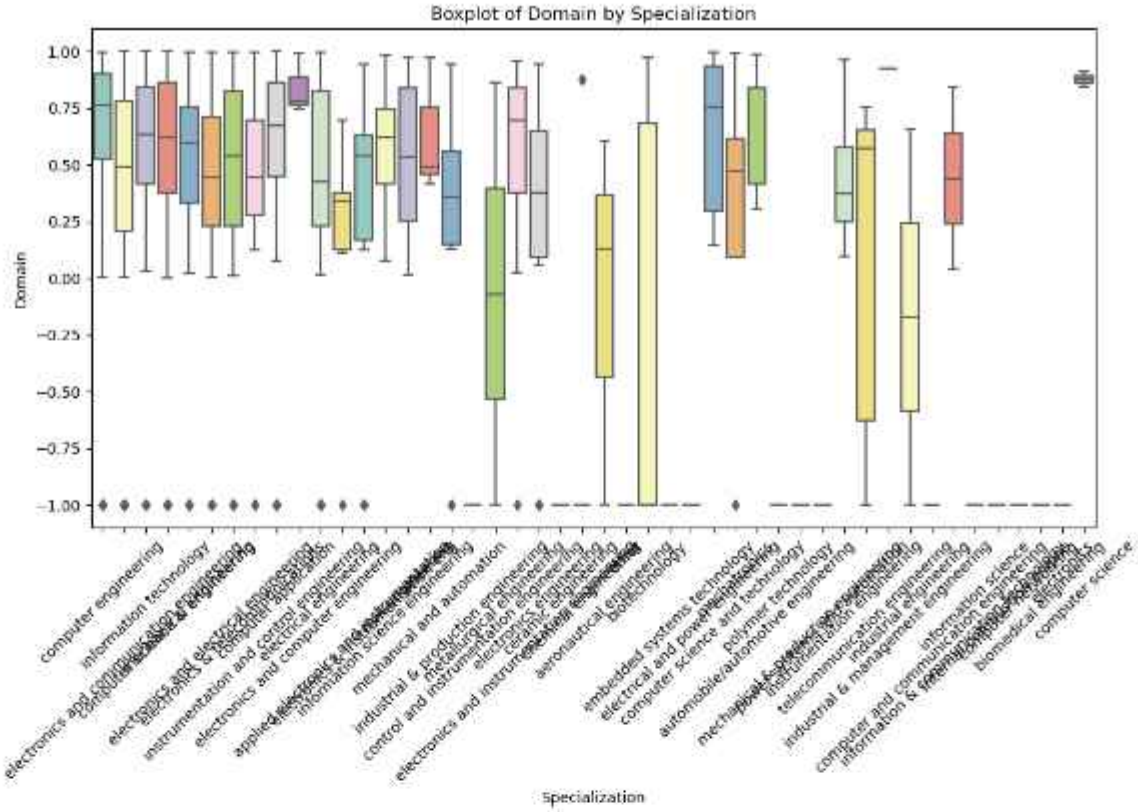

Boxplot of CollegeCityTier by Specialization
CollegeCityTier
1.0
0.8
0.6
0.4
0.2
0.0
computer engineering
information technology
electronics and communication engineering
electronics and electrical engineering
instrumentation and control engineering
electronics and computer engineering
electrical engineering
mechanical and automation
industrial & production engineering
metallurgical engineering
control and instrumentation engineering
electronics engineering
ceramic engineering
aeronautical engineering
biotechnology
embedded systems technology
electrical and power engineering
computer science and technology
polymer technology
automobile/automotive engineering
instrumentation engineering
telecommunication engineering
industrial engineering
industrial & management engineering
information science
computer and communication engineering
biomedical engineering
computer science
Specialization

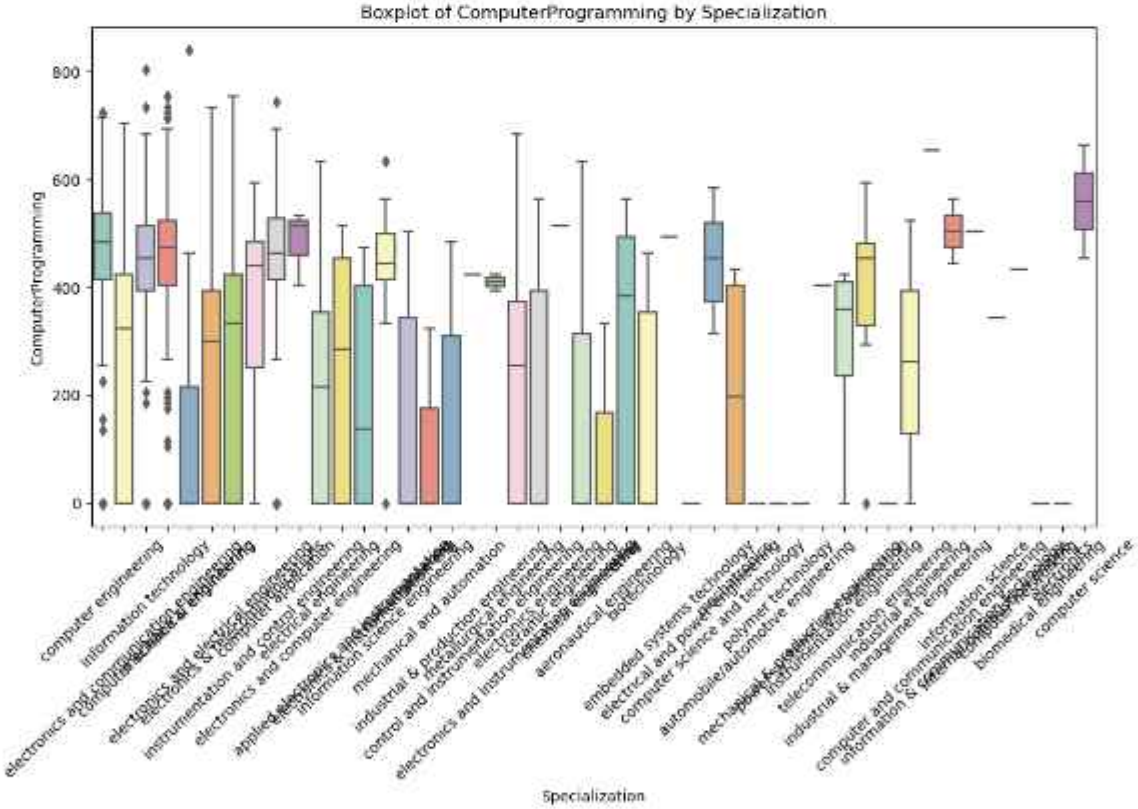

Boxplot of GraduationYear by Specialization
GraduationYear
2000
1750
1500
1250
1000
750
500
250
0
computer engineering
information technology
electronics and communication engineering
electronics and electrical engineering
instrumentation and control engineering
electronics and computer engineering
mechanical and automation
industrial & production engineering
metallurgical engineering
control and instrumentation engineering
electronics engineering
ceramic engineering
aeronautical engineering
biotechnology
embedded systems technology
electrical and power engineering
computer science and technology
polymer technology
automobile/automotive engineering
telecommunication engineering
industrial & management engineering
information science
computer and communication engineering
biomedical engineering
computer science
Specialization

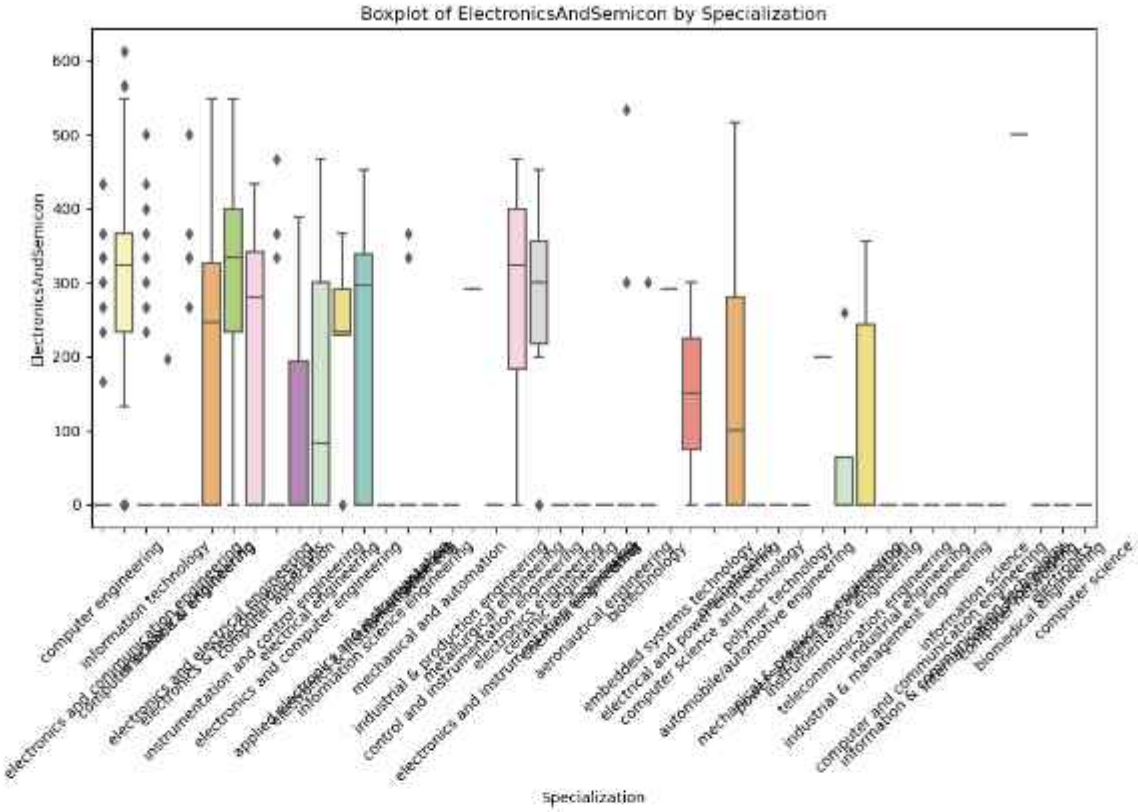

Boxplot of English by Specialization
English
900
800
700
600
500
400
300
200
computer engineering
information technology
electronics and communication engineering
electronics and electrical engineering
instrumentation and control engineering
electronics and computer engineering
mechanical and automation
industrial & production engineering
metallurgical engineering
control and instrumentation engineering
electronics engineering
ceramic engineering
aeronautical engineering
biotechnology
embedded systems technology
electrical and power engineering
computer science and technology
polymer technology
automobile/automotive engineering
telecommunication engineering
industrial & management engineering
information science
computer and communication engineering
biomedical engineering
computer science
Specialization

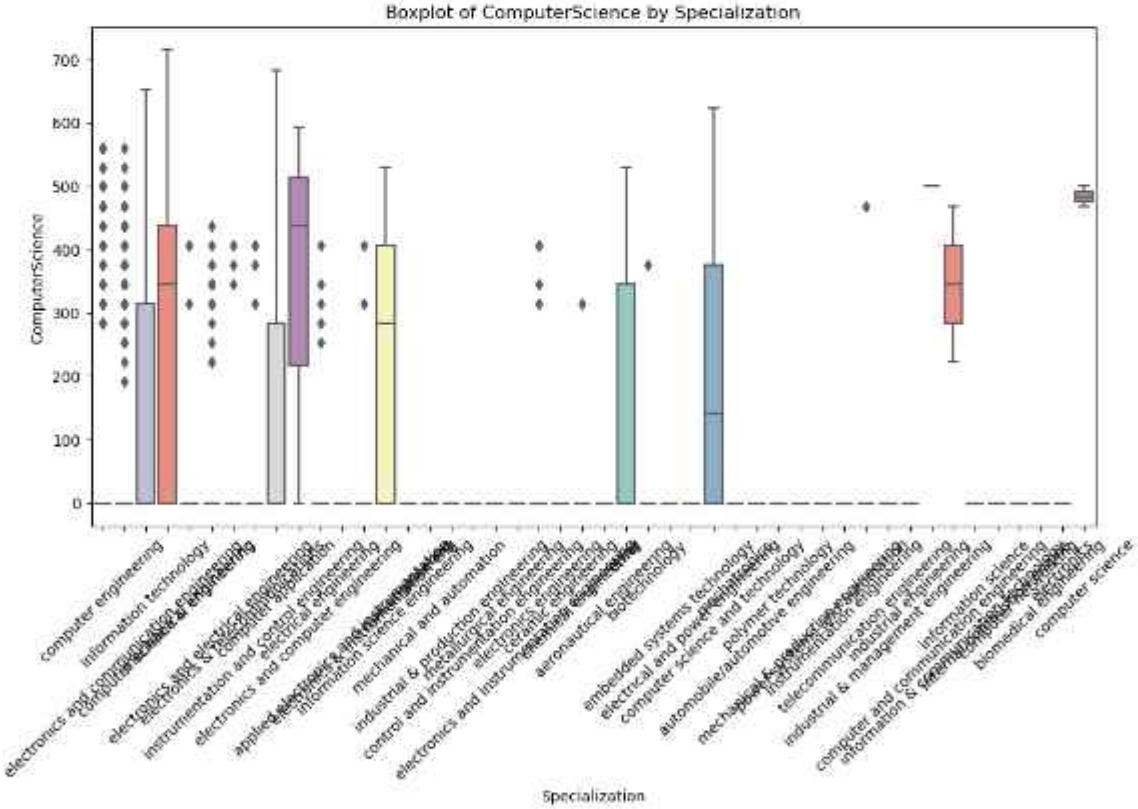

Boxplot of Logical by Specialization
Logical
800
700
600
500
400
300
200
computer engineering
information technology
electronics and communication engineering
electronics and electrical engineering
instrumentation and control engineering
electronics and computer engineering
mechanical and automation
industrial & production engineering
control and instrumentation engineering
electronics and instrumentation engineering
aeronautical engineering
biotechnology
embedded systems technology
electrical and power engineering
computer science and technology
polymer technology
automobile/automotive engineering
telecommunication engineering
industrial & management engineering
computer and communication engineering
information science
biomedical engineering
computer science
Specialization

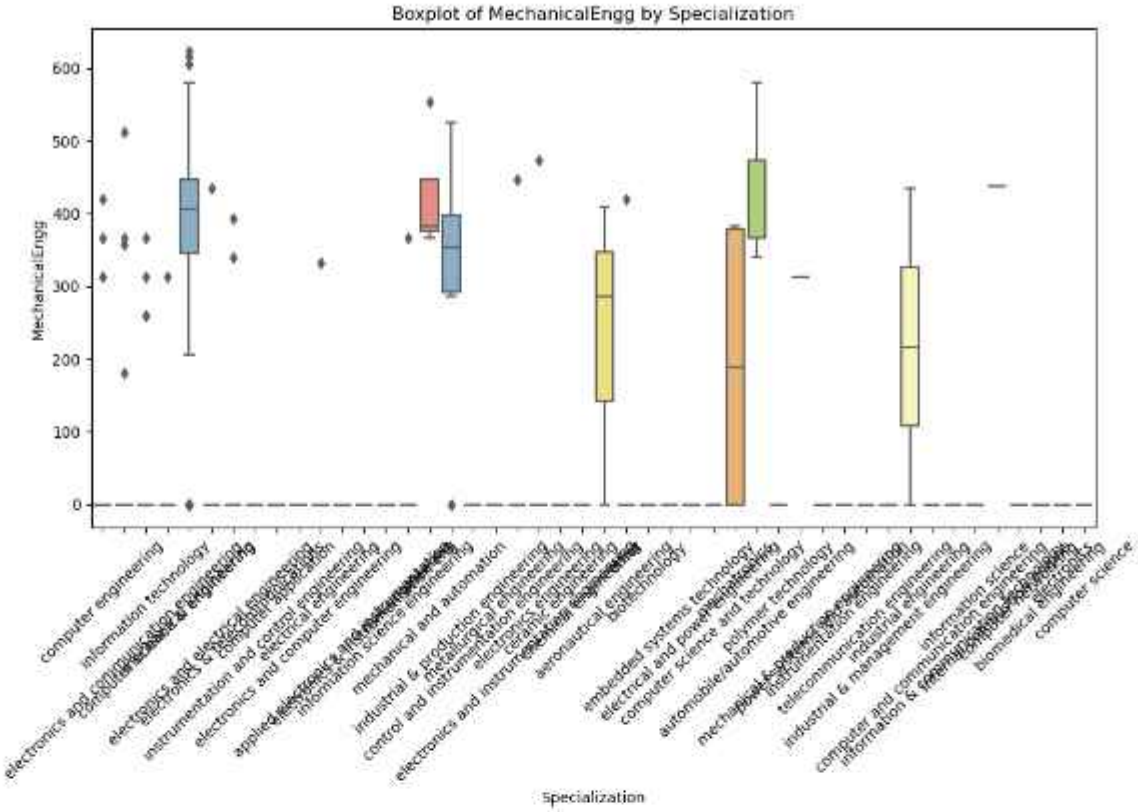

Boxplot of Quant by Specialization
Quant
900
800
700
600
500
400
300
200
100
computer engineering
information technology
electronics and communication engineering
electronics and electrical engineering
instrumentation and control engineering
electronics and computer engineering
mechanical and automation
industrial & production engineering
control and instrumentation engineering
electronics and instrumentation engineering
aeronautical engineering
biotechnology
embedded systems technology
electrical and power engineering
computer science and technology
polymer technology
automobile/automotive engineering
telecommunication engineering
industrial & management engineering
computer and communication engineering
information science
biomedical engineering
computer science
Specialization

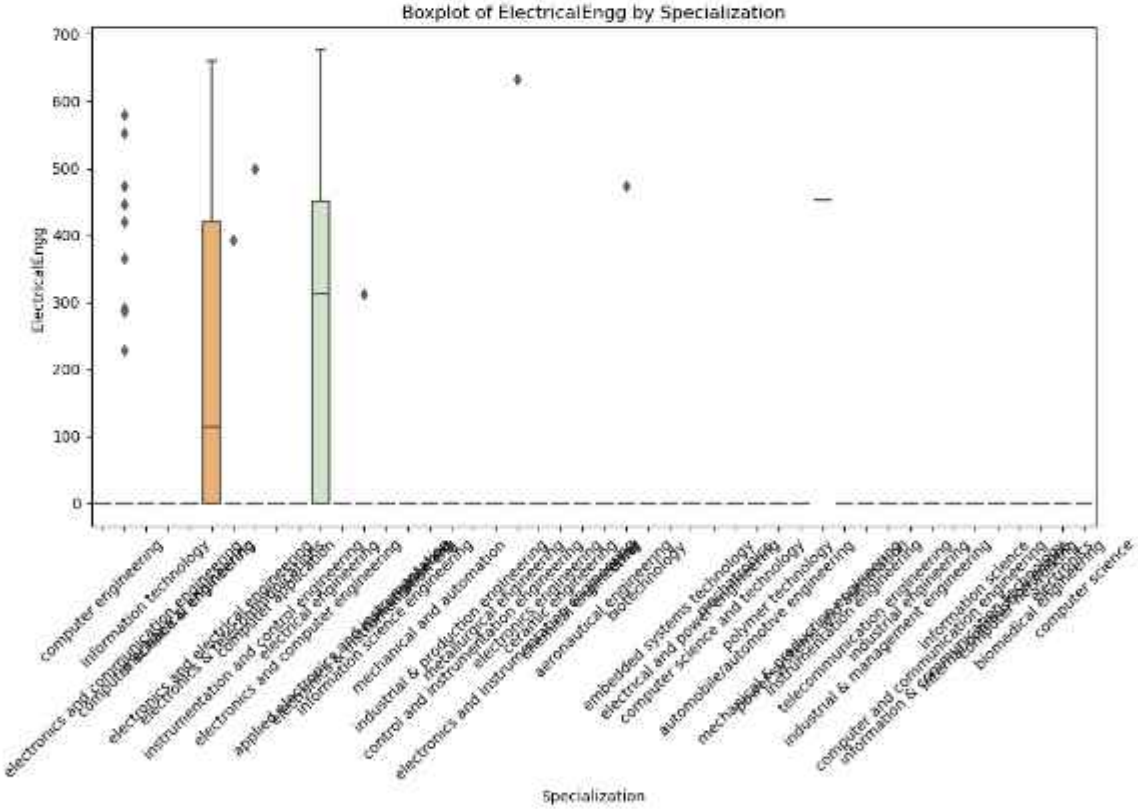

Boxplot of Domain by Specialization
Domain
1.00
0.75
0.50
0.25
0.00
−0.25
−0.50
−0.75
−1.00
computer engineering
information technology
electronics and communication engineering
electronics and electrical engineering
instrumentation and control engineering
electronics and computer engineering
mechanical and automation
industrial & production engineering
control and instrumentation engineering
aeronautical engineering
biotechnology
embedded systems technology
electrical and power engineering
computer science and technology
polymer technology
automobile/automotive engineering
telecommunication engineering
industrial & management engineering
information science
computer and communication engineering
biomedical engineering
computer science
Specialization

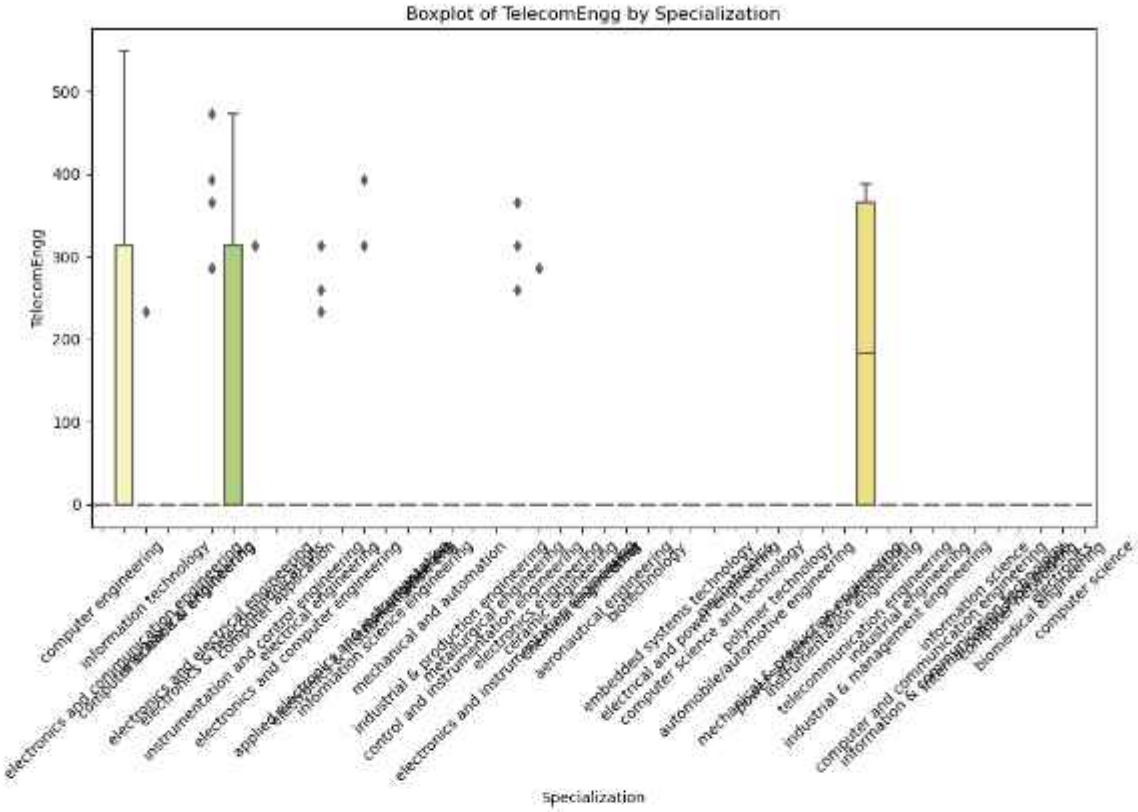

Boxplot of ComputerProgramming by Specialization
ComputerProgramming
800
600
400
200
0
computer engineering
information technology
electronics and communication engineering
electronics and electrical engineering
instrumentation and control engineering
electronics and computer engineering
mechanical and automation
industrial & production engineering
control and instrumentation engineering
aeronautical engineering
biotechnology
embedded systems technology
electrical and power engineering
computer science and technology
polymer technology
automobile/automotive engineering
telecommunication engineering
industrial & management engineering
information science
computer and communication engineering
biomedical engineering
computer science
Specialization

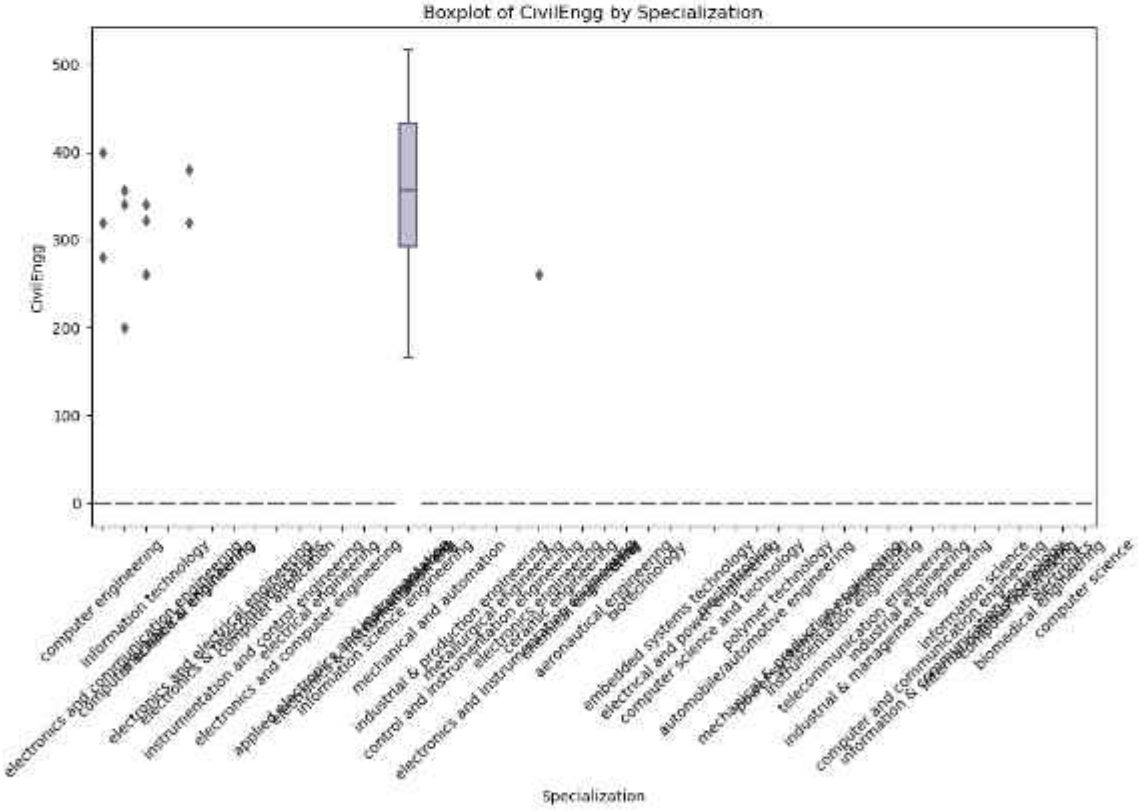

Boxplot of ElectronicsAndSemicon by Specialization
ElectronicsAndSemicon
0
100
200
300
400
500
600
computer engineering
information technology
electronics and communication engineering
electronics and electrical engineering
instrumentation and control engineering
electronics and computer engineering
mechanical and automation
industrial & production engineering
control and instrumentation engineering
aeronautical engineering
biotechnology
embedded systems technology
electrical and power engineering
computer science and technology
polymer technology
automobile/automotive engineering
telecommunication engineering
industrial & management engineering
information science
computer and communication engineering
biomedical engineering
computer science
Specialization

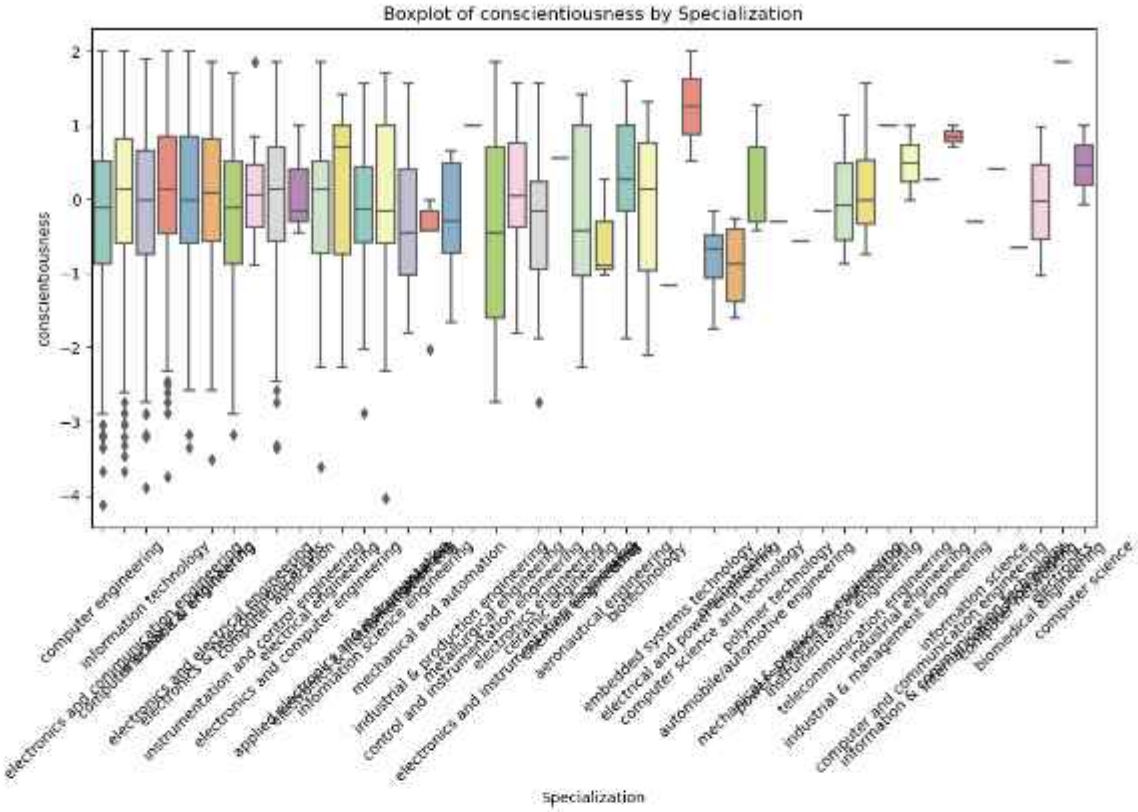

Boxplot of ComputerScience by Specialization
ComputerScience
0
100
200
300
400
500
600
700
computer engineering
information technology
electronics and communication engineering
electronics and electrical engineering
instrumentation and control engineering
electronics and computer engineering
mechanical and automation
industrial & production engineering
control and instrumentation engineering
aeronautical engineering
biotechnology
embedded systems technology
electrical and power engineering
computer science and technology
polymer technology
automobile/automotive engineering
telecommunication engineering
industrial & management engineering
information science
computer and communication engineering
biomedical engineering
computer science
Specialization

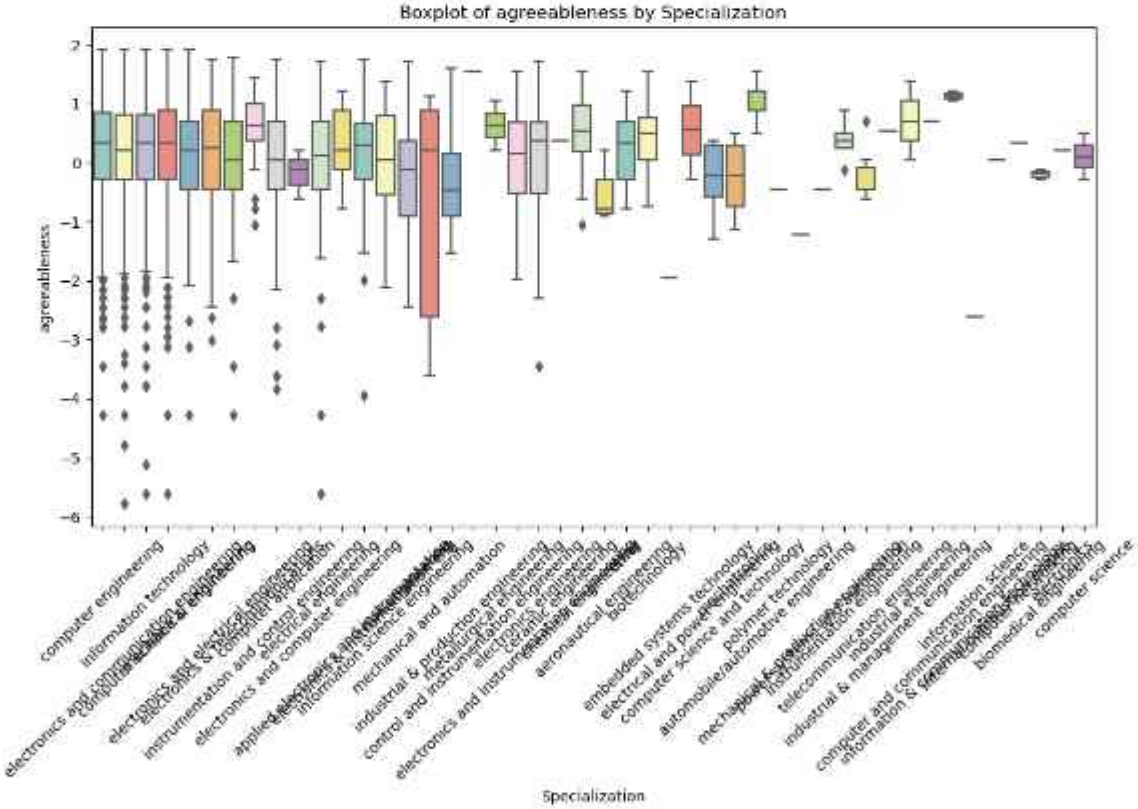

Boxplot of MechanicalEngg by Specialization
MechanicalEngg
0
100
200
300
400
500
600
computer engineering
information technology
electronics and communication engineering
electronics and electrical engineering
instrumentation and control engineering
electronics and computer engineering
mechanical and automation
industrial & production engineering
control and instrumentation engineering
aeronautical engineering
biotechnology
embedded systems technology
electrical and power engineering
computer science and technology
polymer technology
automobile/automotive engineering
telecommunication engineering
industrial & management engineering
computer and communication engineering
information science
biomedical engineering
computer science
Specialization

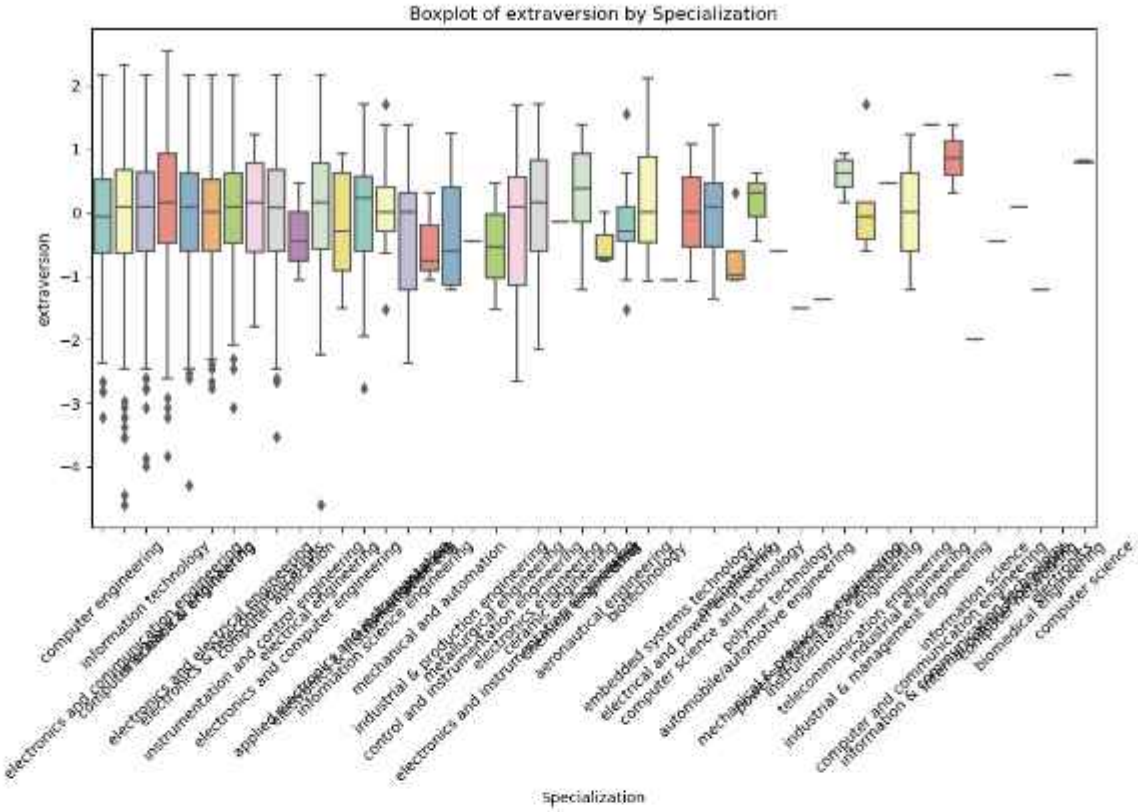

Boxplot of ElectricalEngg by Specialization
ElectricalEngg
0
100
200
300
400
500
600
700
computer engineering
information technology
electronics and communication engineering
electronics and electrical engineering
instrumentation and control engineering
electronics and computer engineering
mechanical and automation
industrial & production engineering
control and instrumentation engineering
aeronautical engineering
biotechnology
embedded systems technology
electrical and power engineering
computer science and technology
polymer technology
automobile/automotive engineering
telecommunication engineering
industrial & management engineering
computer and communication engineering
information science
biomedical engineering
computer science
Specialization

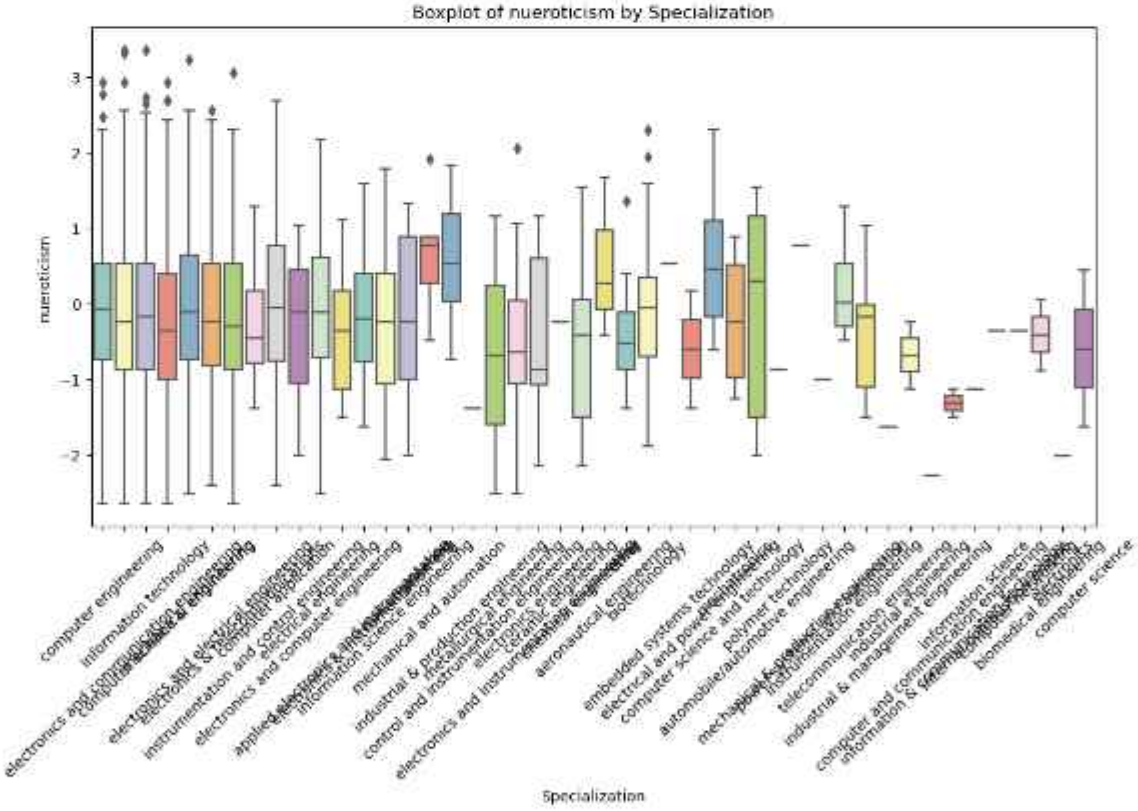

Boxplot of TelecomEngg by Specialization
TelecomEngg
0
100
200
300
400
500
computer engineering
information technology
electronics and communication engineering
electronics and electrical engineering
instrumentation and control engineering
electronics and computer engineering
mechanical and automation
industrial & production engineering
metallurgical engineering
control and instrumentation engineering
electronics engineering
ceramic engineering
aeronautical engineering
biotechnology
embedded systems technology
electrical and power engineering
computer science and technology
polymer technology
automobile/automotive engineering
instrumentation engineering
telecommunication engineering
industrial engineering
industrial & management engineering
information science
computer and communication engineering
biomedical engineering
computer science
Specialization

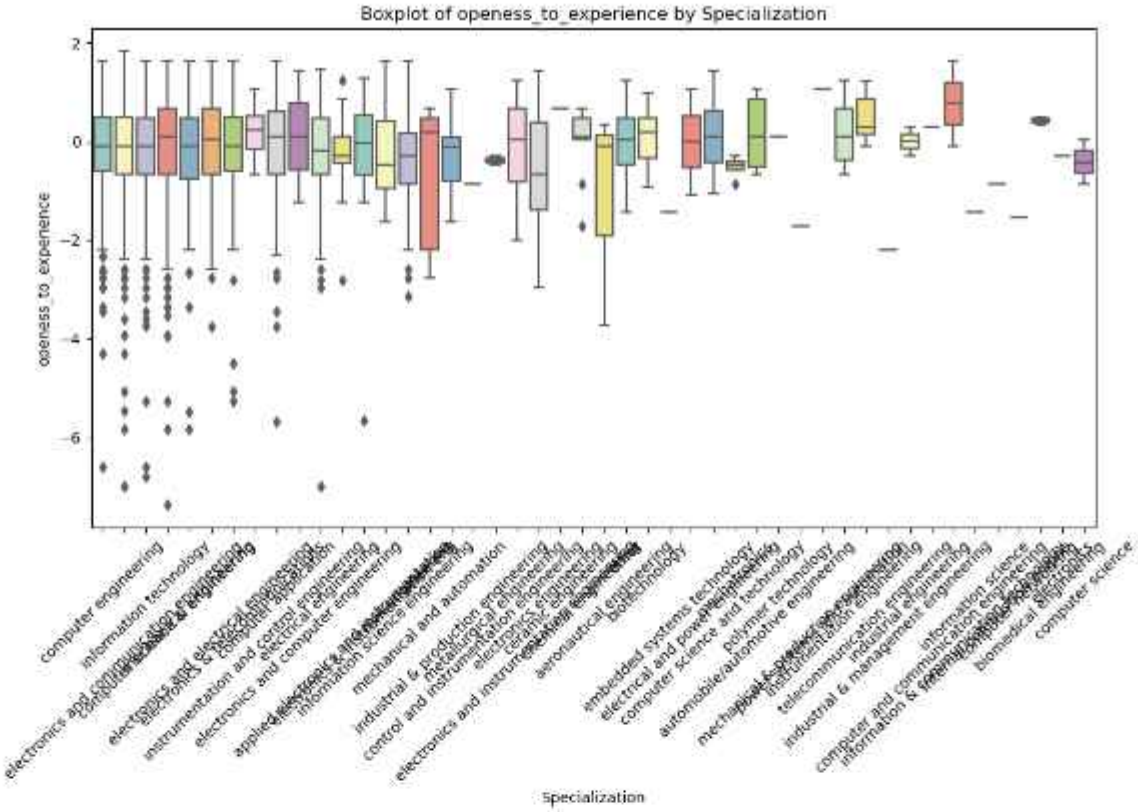

Boxplot of CivilEngg by Specialization
CivilEngg
0
100
200
300
400
500
computer engineering
information technology
electronics and communication engineering
electronics and electrical engineering
instrumentation and control engineering
electronics and computer engineering
mechanical and automation
industrial & production engineering
metallurgical engineering
control and instrumentation engineering
electronics engineering
ceramic engineering
aeronautical engineering
biotechnology
embedded systems technology
electrical and power engineering
computer science and technology
polymer technology
automobile/automotive engineering
instrumentation engineering
telecommunication engineering
industrial engineering
industrial & management engineering
information science
computer and communication engineering
biomedical engineering
computer science
Specialization

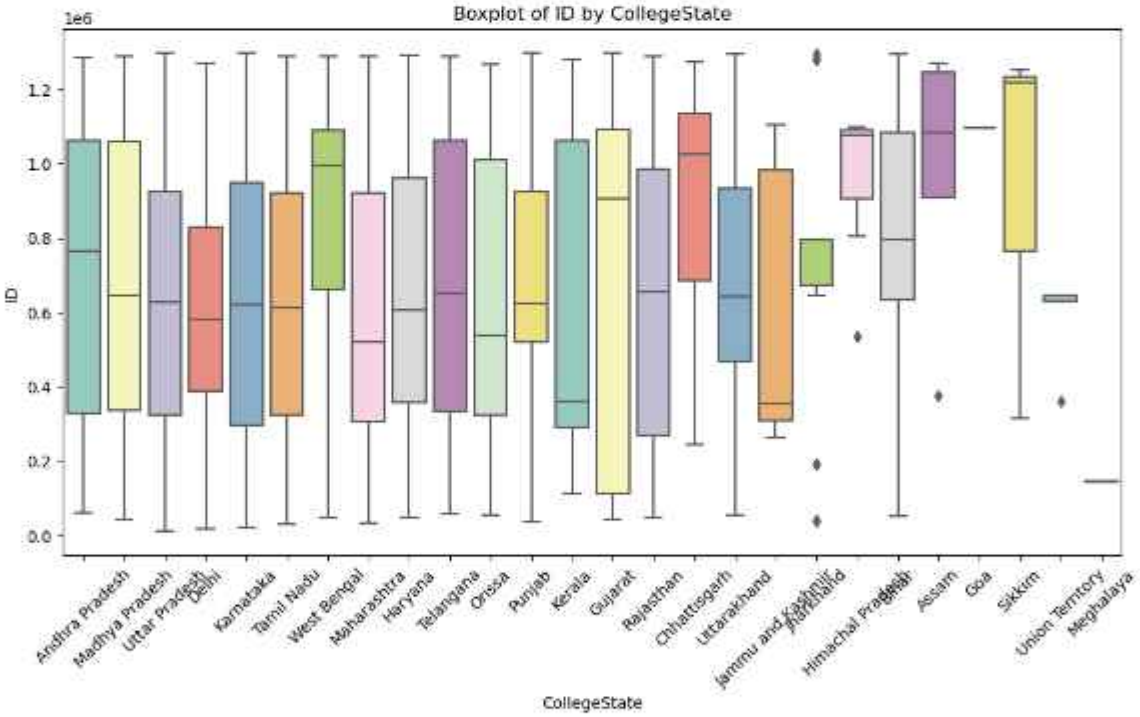

Boxplot of conscientiousness by Specialization
conscientiousness
Specialization
computer engineering
information technology
electronics and communication engineering
electronics and electrical engineering
instrumentation and control engineering
electronics and computer engineering
mechanical and automation
industrial & production engineering
control and instrumentation engineering
electronics and instrumentation engineering
aeronautical engineering
biotechnology
embedded systems technology
electrical and power engineering
computer science and technology
polymer technology
automobile/automotive engineering
telecommunication engineering
industrial & management engineering
information science
computer and communication engineering
biomedical engineering
computer science

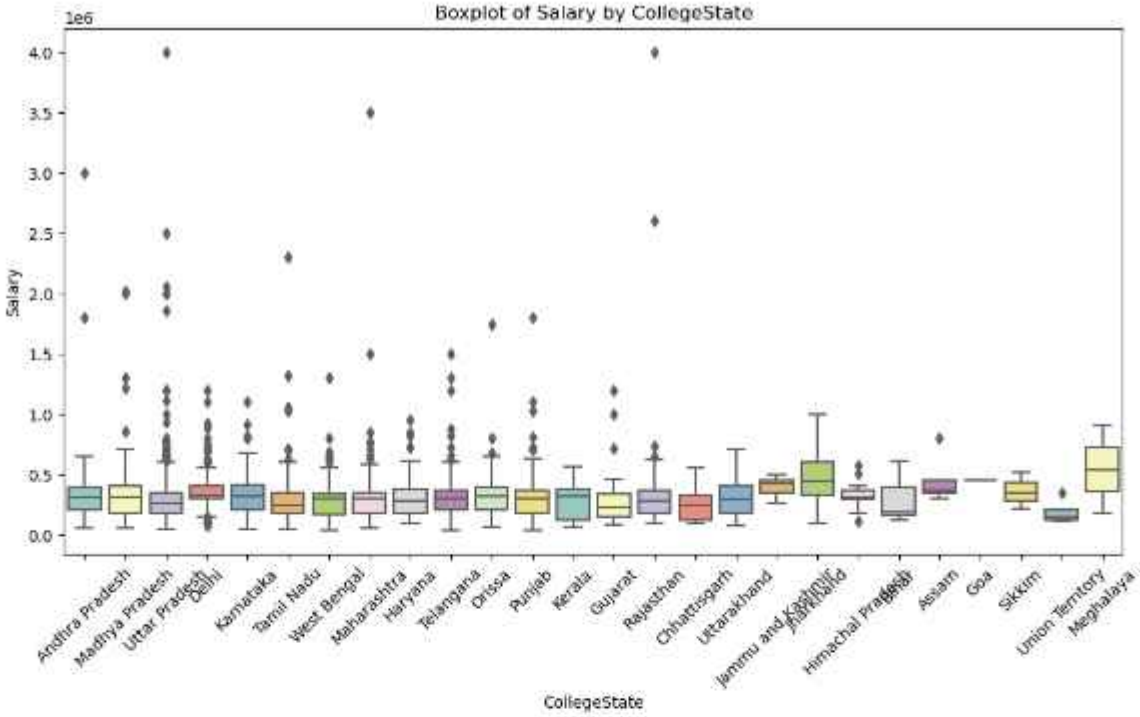

Boxplot of agreeableness by Specialization
agreeableness
Specialization
computer engineering
information technology
electronics and communication engineering
electronics and electrical engineering
instrumentation and control engineering
electronics and computer engineering
mechanical and automation
industrial & production engineering
control and instrumentation engineering
electronics and instrumentation engineering
aeronautical engineering
biotechnology
embedded systems technology
electrical and power engineering
computer science and technology
polymer technology
automobile/automotive engineering
telecommunication engineering
industrial & management engineering
information science
computer and communication engineering
biomedical engineering
computer science

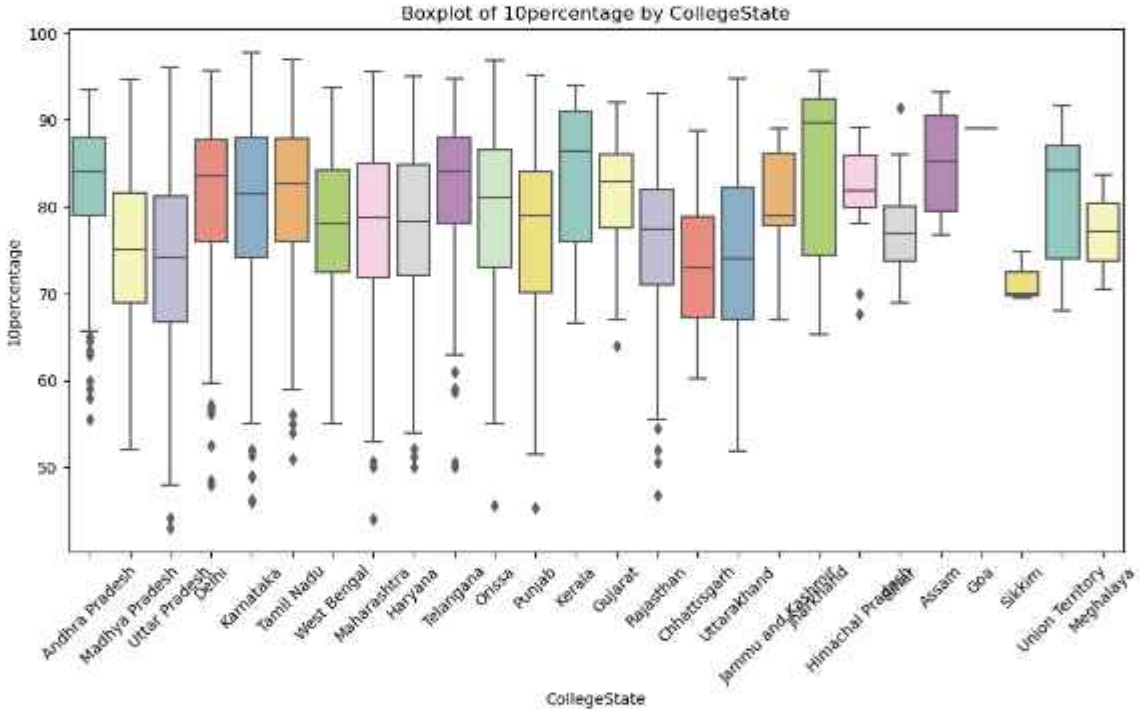

Boxplot of extraversion by Specialization
extraversion
Specialization
computer engineering
information technology
electronics and communication engineering
electronics and electrical engineering
instrumentation and control engineering
electronics and computer engineering
mechanical and automation
industrial & production engineering
metallurgical engineering
control and instrumentation engineering
electronics engineering
ceramic engineering
aeronautical engineering
biotechnology
embedded systems technology
electrical and power engineering
computer science and technology
polymer technology
automobile/automotive engineering
instrumentation engineering
telecommunication engineering
industrial engineering
industrial & management engineering
information science
computer and communication engineering
biomedical engineering
computer science

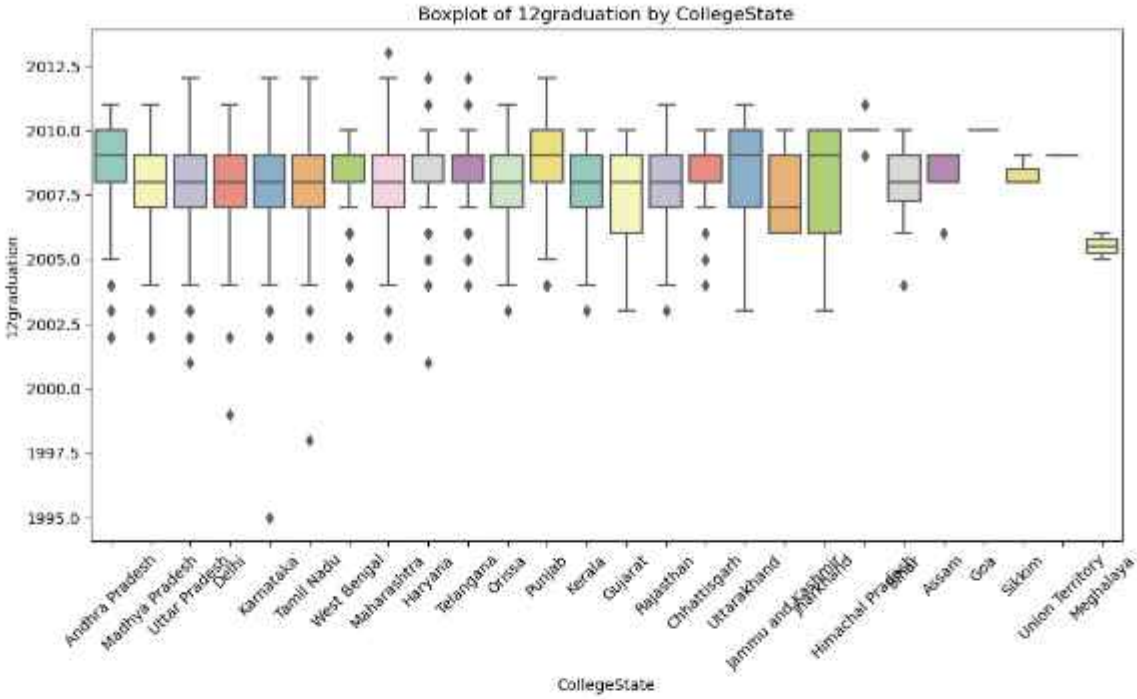

Boxplot of nueroticism by Specialization
nueroticism
Specialization
computer engineering
information technology
electronics and communication engineering
electronics and electrical engineering
instrumentation and control engineering
electronics and computer engineering
mechanical and automation
industrial & production engineering
metallurgical engineering
control and instrumentation engineering
electronics engineering
ceramic engineering
aeronautical engineering
biotechnology
embedded systems technology
electrical and power engineering
computer science and technology
polymer technology
automobile/automotive engineering
instrumentation engineering
telecommunication engineering
industrial engineering
industrial & management engineering
information science
computer and communication engineering
biomedical engineering
computer science

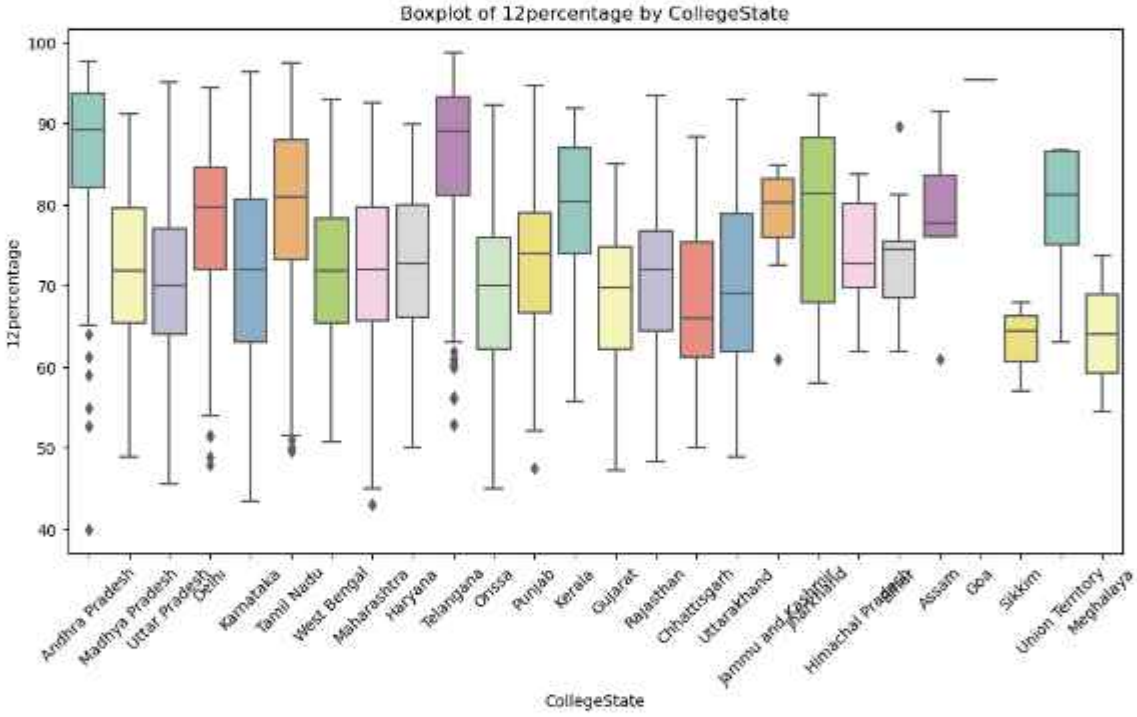

Boxplot of openess_to_experience by Specialization
openess_to_experience
Specialization
computer engineering
information technology
electronics and communication engineering
electronics and electrical engineering
instrumentation and control engineering
electronics and control engineering
electronics and computer engineering
mechanical and automation
industrial & production engineering
metallurgical engineering
control and instrumentation engineering
electronics engineering
ceramic engineering
aeronautical engineering
biotechnology
embedded systems technology
electrical and power engineering
computer science and technology
polymer technology
automobile/automotive engineering
telecommunication engineering
industrial engineering
industrial & management engineering
information science
computer and communication engineering
biomedical engineering
computer science

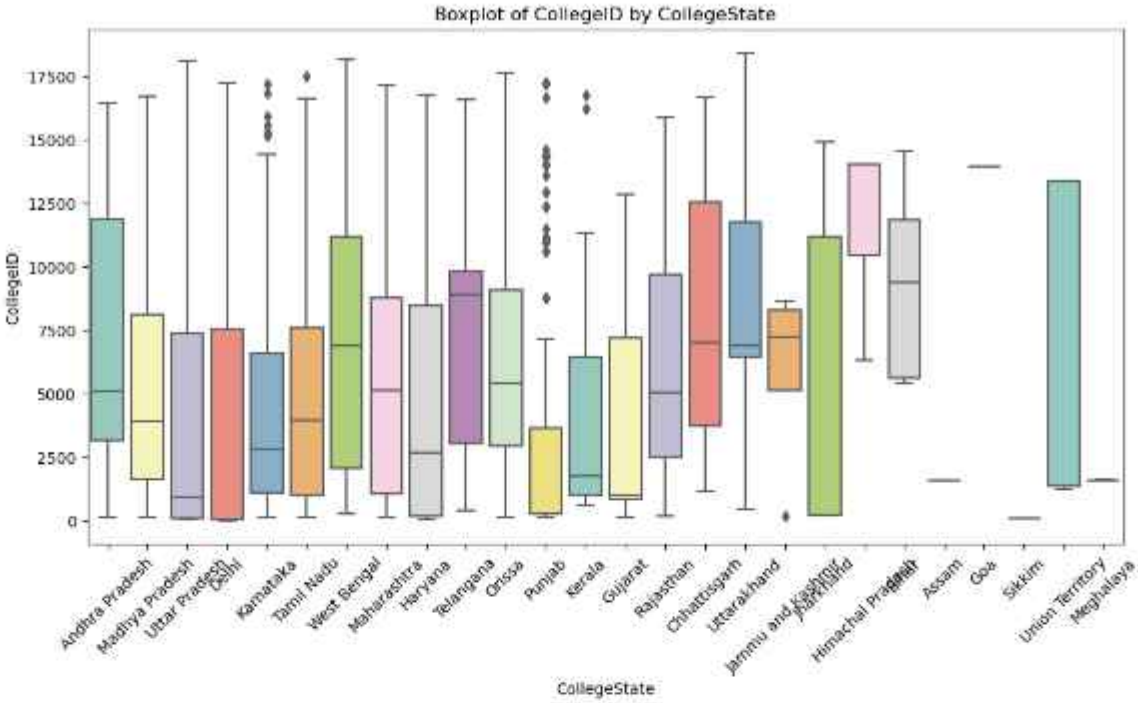

Boxplot of ID by CollegeState
1e6
ID
CollegeState
Andhra Pradesh
Madhya Pradesh
Uttar Pradesh
Delhi
Karnataka
Tamil Nadu
West Bengal
Maharashtra
Haryana
Telangana
Orissa
Punjab
Kerala
Gujarat
Rajasthan
Chhattisgarh
Uttarakhand
Jammu and Kashmir
Jharkhand
Himachal Pradesh
Assam
Goa
Sikkim
Union Territory
Meghalaya

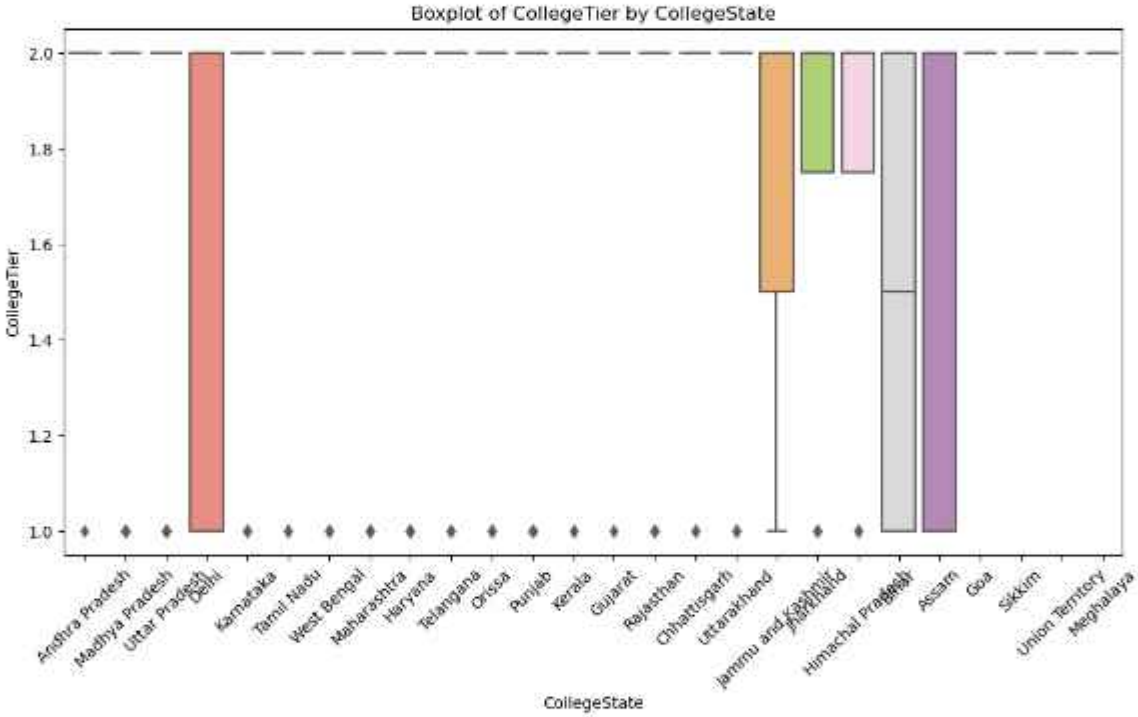

Boxplot of Salary by CollegeState
1e6
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Salary
Andhra Pradesh
Madhya Pradesh
Uttar Pradesh
Delhi
Karnataka
Tamil Nadu
West Bengal
Maharashtra
Haryana
Telangana
Orissa
Punjab
Kerala
Gujarat
Rajasthan
Chhattisgarh
Uttarakhand
Himachal Pradesh
Assam
Goa
Sikkim
Union Territory
Meghalaya
CollegeState

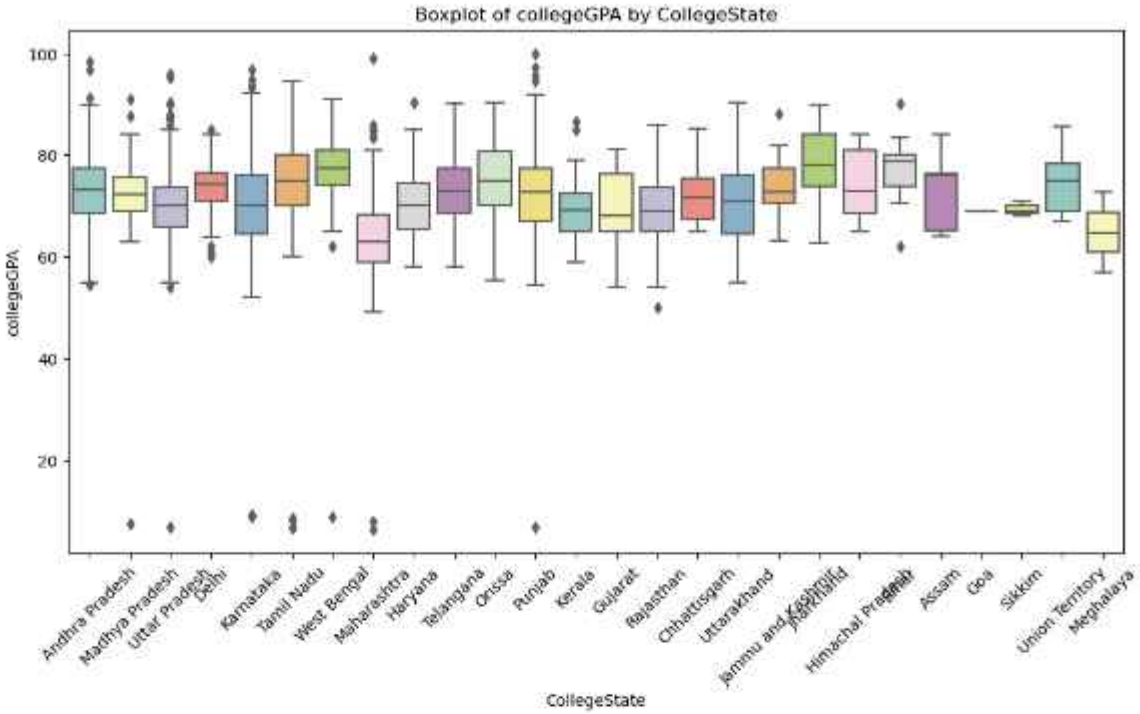

Boxplot of 10percentage by CollegeState
100
90
80
70
60
50
10percentage
Andhra Pradesh
Madhya Pradesh
Uttar Pradesh
Delhi
Karnataka
Tamil Nadu
West Bengal
Maharashtra
Haryana
Telangana
Orissa
Punjab
Kerala
Gujarat
Rajasthan
Chhattisgarh
Uttarakhand
Himachal Pradesh
Assam
Goa
Sikkim
Union Territory
Meghalaya
CollegeState

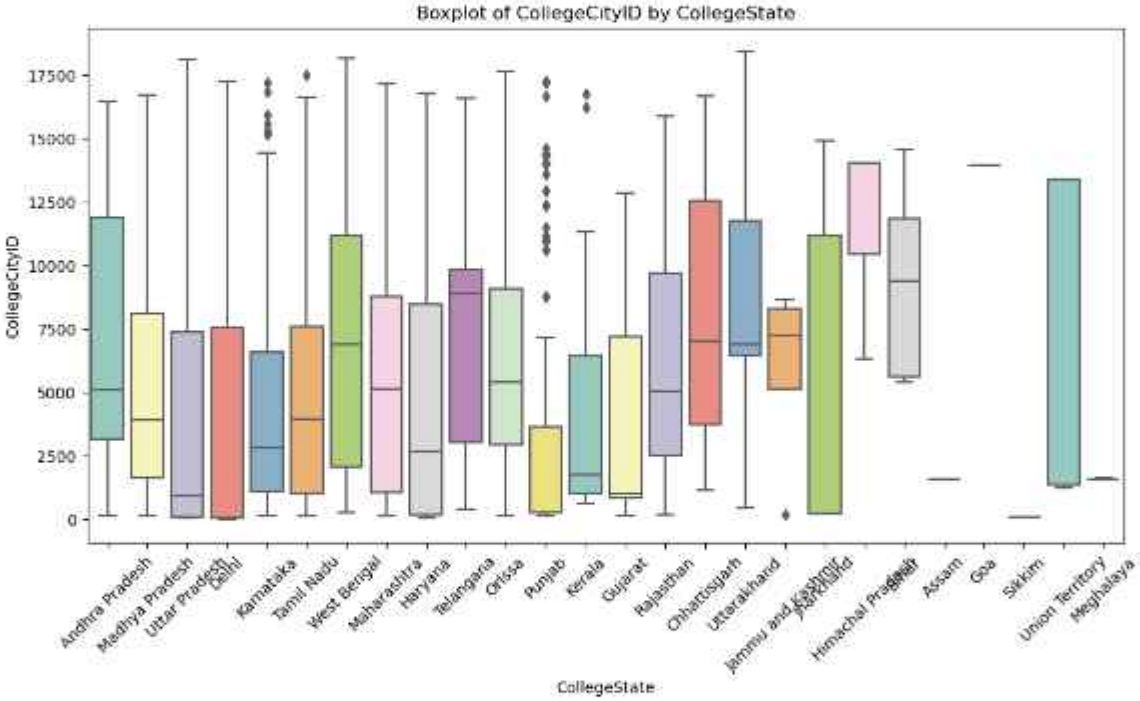

Boxplot of 12graduation by CollegeState
12graduation
2012.5
2010.0
2007.5
2005.0
2002.5
2000.0
1997.5
1995.0
Andhra Pradesh
Madhya Pradesh
Uttar Pradesh
Delhi
Karnataka
Tamil Nadu
West Bengal
Maharashtra
Haryana
Telangana
Orissa
Punjab
Kerala
Gujarat
Rajasthan
Chhattisgarh
Uttarakhand
Jammu and Kashmir
Jharkhand
Himachal Pradesh
Assam
Goa
Sikkim
Union Territory
Meghalaya
CollegeState

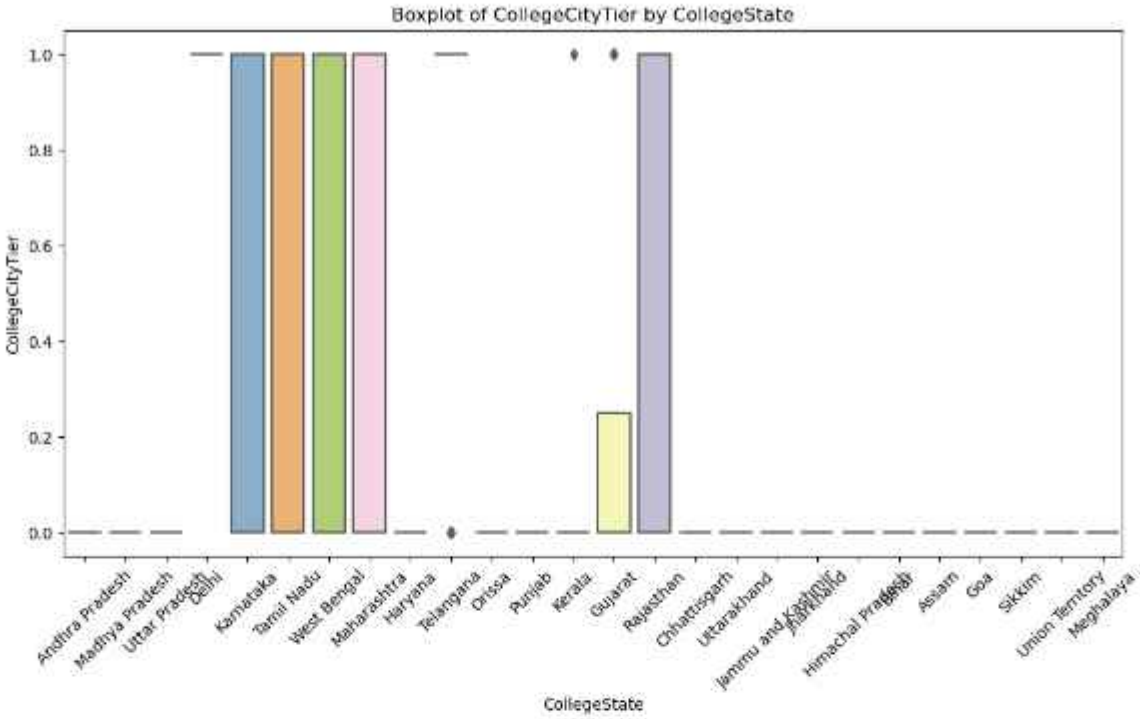

Boxplot of 12percentage by CollegeState
12percentage
100
90
80
70
60
50
40
Andhra Pradesh
Madhya Pradesh
Uttar Pradesh
Delhi
Karnataka
Tamil Nadu
West Bengal
Maharashtra
Haryana
Telangana
Orissa
Punjab
Kerala
Gujarat
Rajasthan
Chhattisgarh
Uttarakhand
Jammu and Kashmir
Jharkhand
Himachal Pradesh
Assam
Goa
Sikkim
Union Territory
Meghalaya
CollegeState

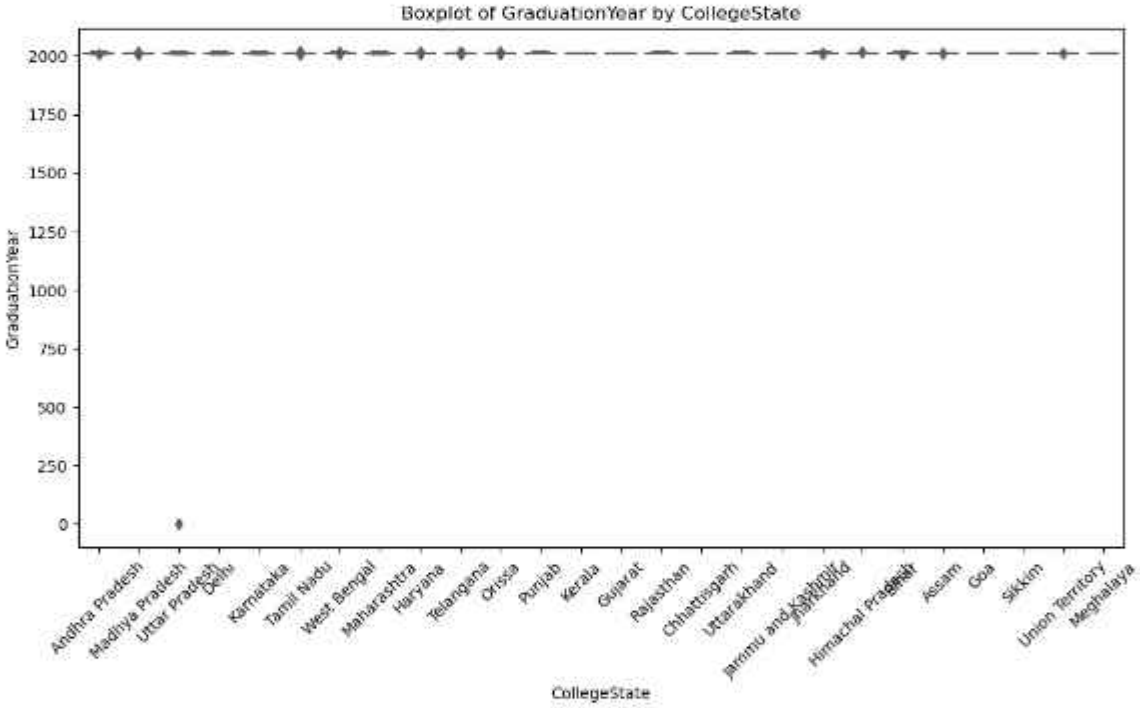

Boxplot of CollegeID by CollegeState
CollegeID
17500
15000
12500
10000
7500
5000
2500
0
Andhra Pradesh
Madhya Pradesh
Uttar Pradesh
Delhi
Karnataka
Tamil Nadu
West Bengal
Maharashtra
Haryana
Telangana
Orissa
Punjab
Kerala
Gujarat
Rajasthan
Chhattisgarh
Uttarakhand
Jammu and Kashmir
Jharkhand
Himachal Pradesh
Assam
Goa
Sikkim
Union Territory
Meghalaya
CollegeState

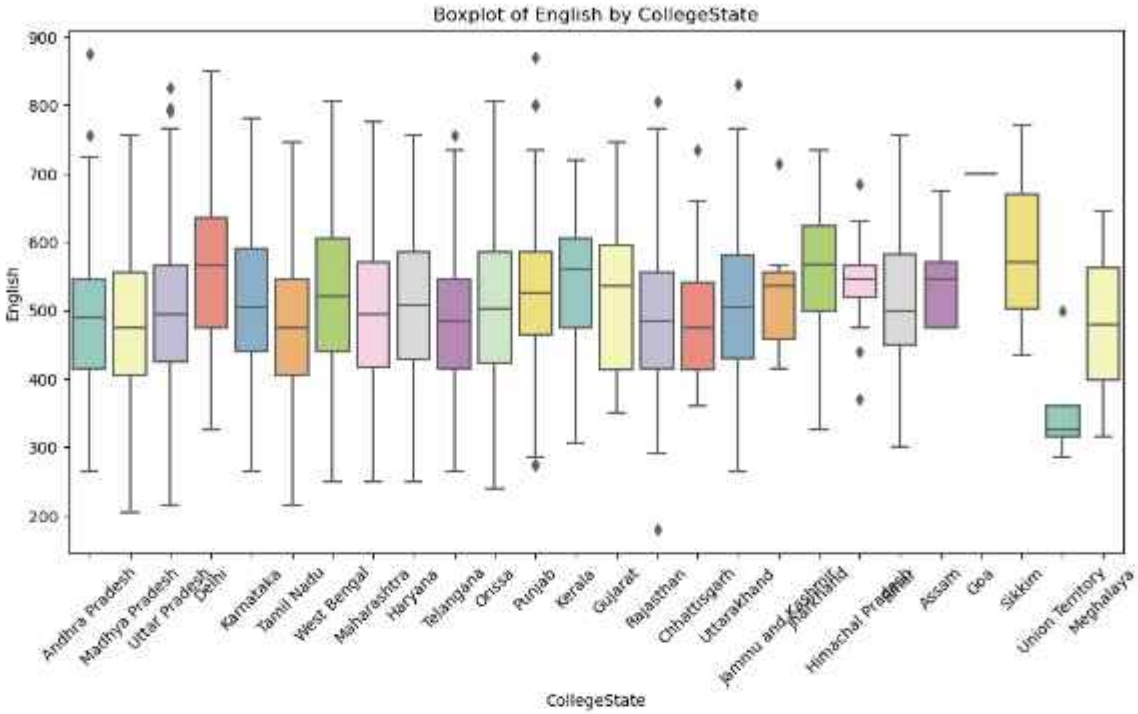

Boxplot of CollegeTier by CollegeState
CollegeTier
2.0
1.8
1.6
1.4
1.2
1.0
Andhra Pradesh
Madhya Pradesh
Uttar Pradesh
Delhi
Karnataka
Tamil Nadu
West Bengal
Maharashtra
Haryana
Telangana
Orissa
Punjab
Kerala
Gujarat
Rajasthan
Chhattisgarh
Uttarakhand
Jammu and Kashmir
Jharkhand
Himachal Pradesh
Assam
Goa
Sikkim
Union Territory
Meghalaya
CollegeState

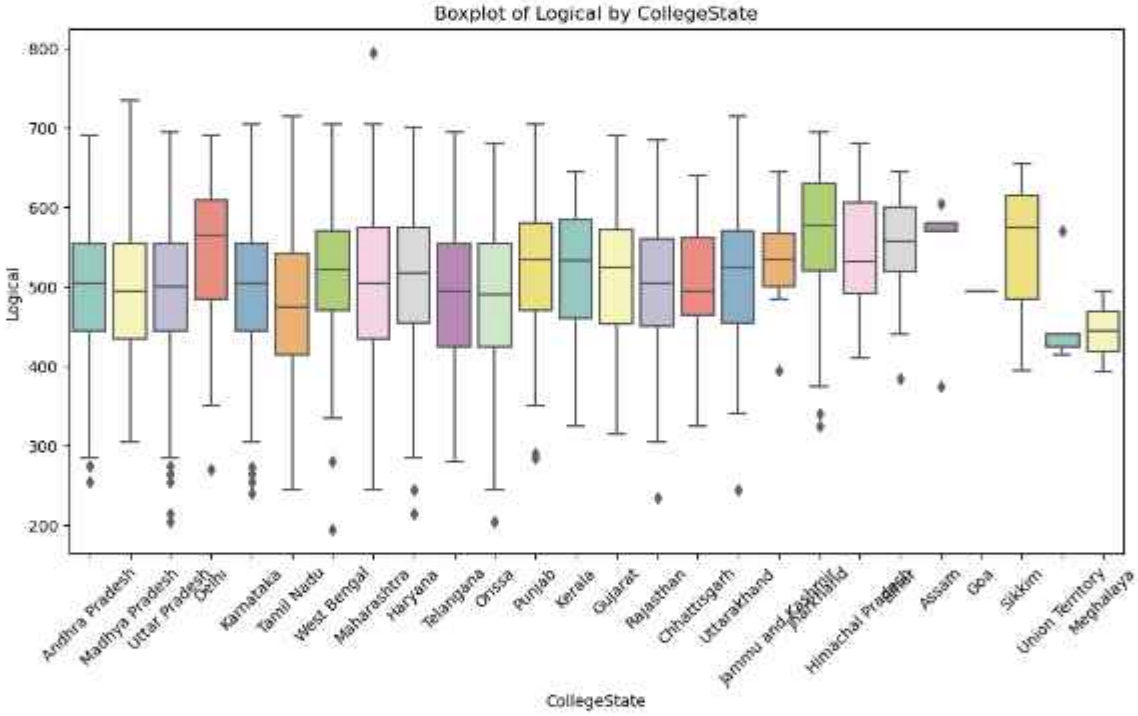

Boxplot of collegeGPA by CollegeState
collegeGPA
100
80
60
40
20
Andhra Pradesh
Madhya Pradesh
Uttar Pradesh
Delhi
Karnataka
Tamil Nadu
West Bengal
Maharashtra
Haryana
Telangana
Orissa
Punjab
Kerala
Gujarat
Rajasthan
Chhattisgarh
Uttarakhand
Jammu and Kashmir
Himachal Pradesh
Assam
Goa
Sikkim
Union Territory
Meghalaya
CollegeState

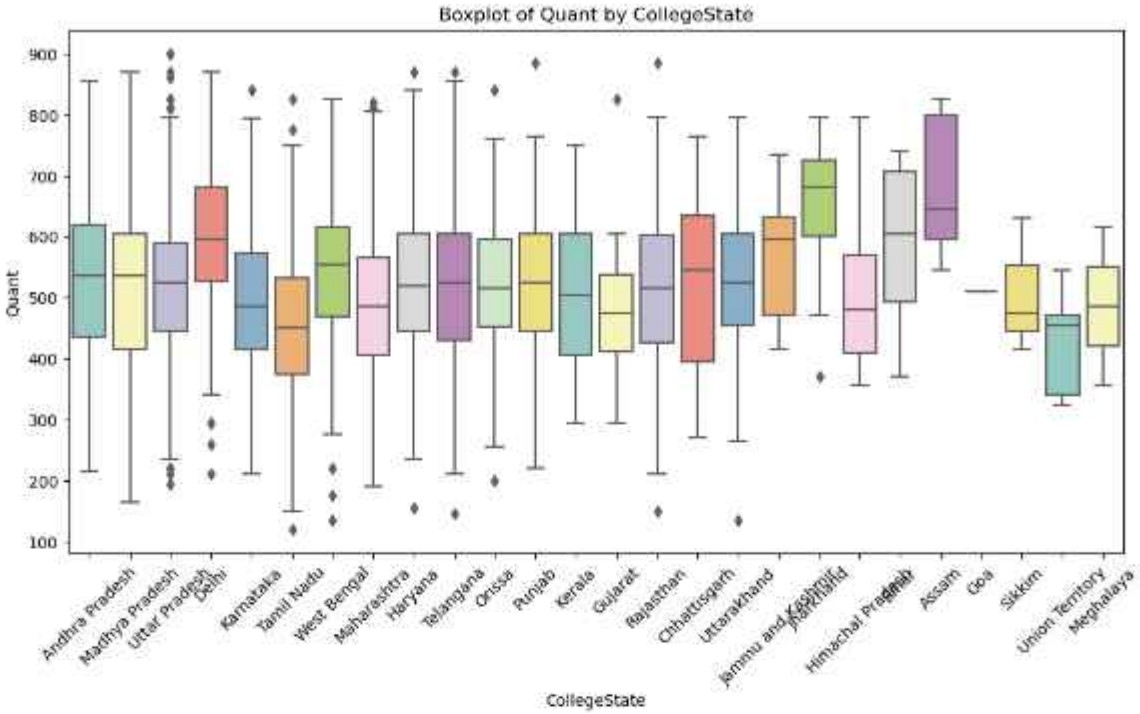

Boxplot of CollegeCityID by CollegeState
CollegeCityID
17500
15000
12500
10000
7500
5000
2500
0
Andhra Pradesh
Madhya Pradesh
Uttar Pradesh
Delhi
Karnataka
Tamil Nadu
West Bengal
Maharashtra
Haryana
Telangana
Orissa
Punjab
Kerala
Gujarat
Rajasthan
Chhattisgarh
Uttarakhand
Jammu and Kashmir
Himachal Pradesh
Assam
Goa
Sikkim
Union Territory
Meghalaya
CollegeState

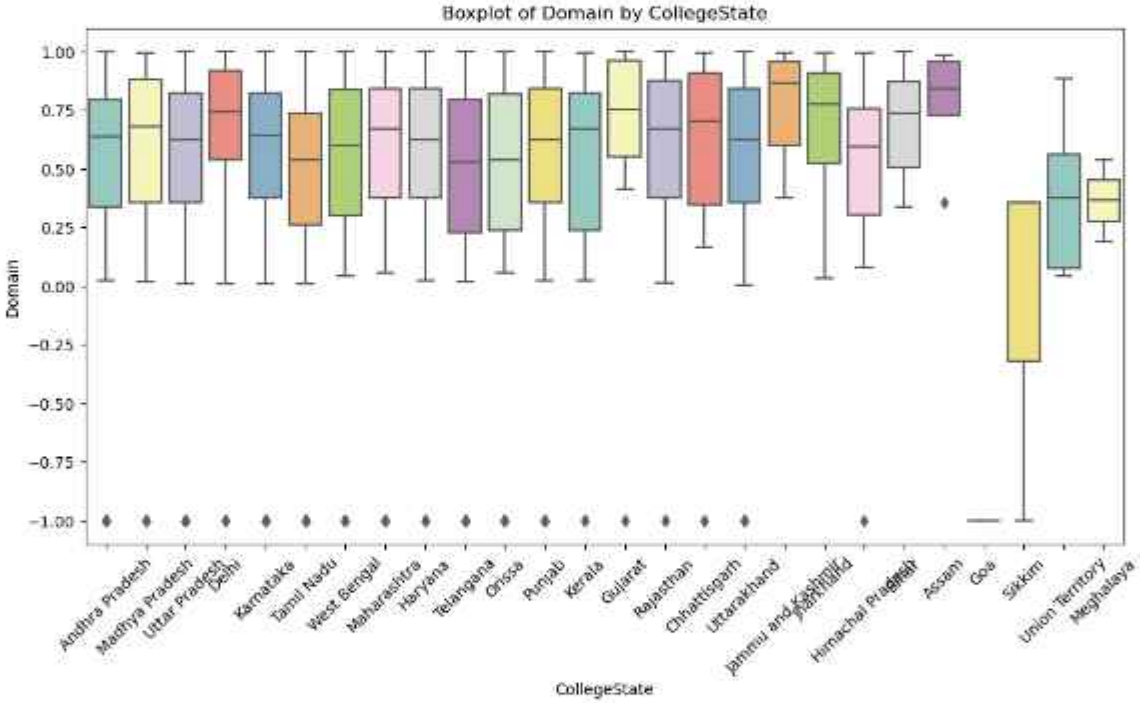

Boxplot of CollegeCityTier by CollegeState
CollegeCityTier
1.0
0.8
0.6
0.4
0.2
0.0
Andhra Pradesh
Madhya Pradesh
Uttar Pradesh
Delhi
Karnataka
Tamil Nadu
West Bengal
Maharashtra
Haryana
Telangana
Orissa
Punjab
Kerala
Gujarat
Rajasthan
Chhattisgarh
Uttarakhand
Himachal Pradesh
Assam
Goa
Sikkim
Union Territory
Meghalaya
CollegeState

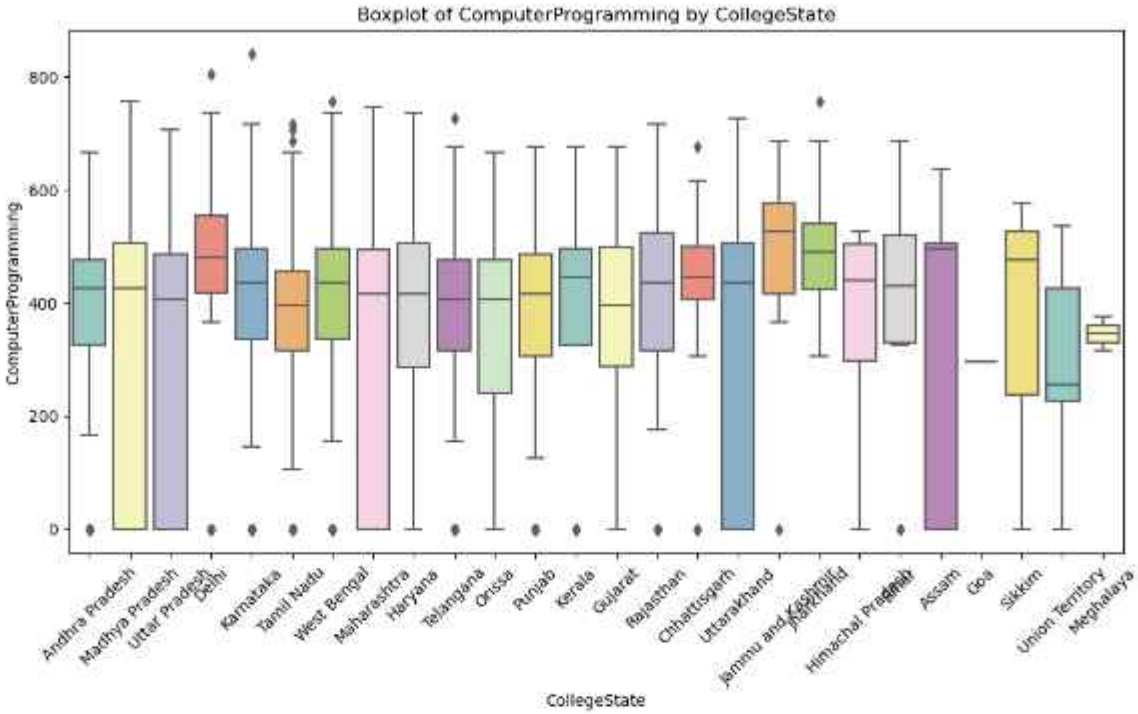

Boxplot of GraduationYear by CollegeState
GraduationYear
2000
1750
1500
1250
1000
750
500
250
0
Andhra Pradesh
Madhya Pradesh
Uttar Pradesh
Delhi
Karnataka
Tamil Nadu
West Bengal
Maharashtra
Haryana
Telangana
Orissa
Punjab
Kerala
Gujarat
Rajasthan
Chhattisgarh
Uttarakhand
Himachal Pradesh
Assam
Goa
Sikkim
Union Territory
Meghalaya
CollegeState

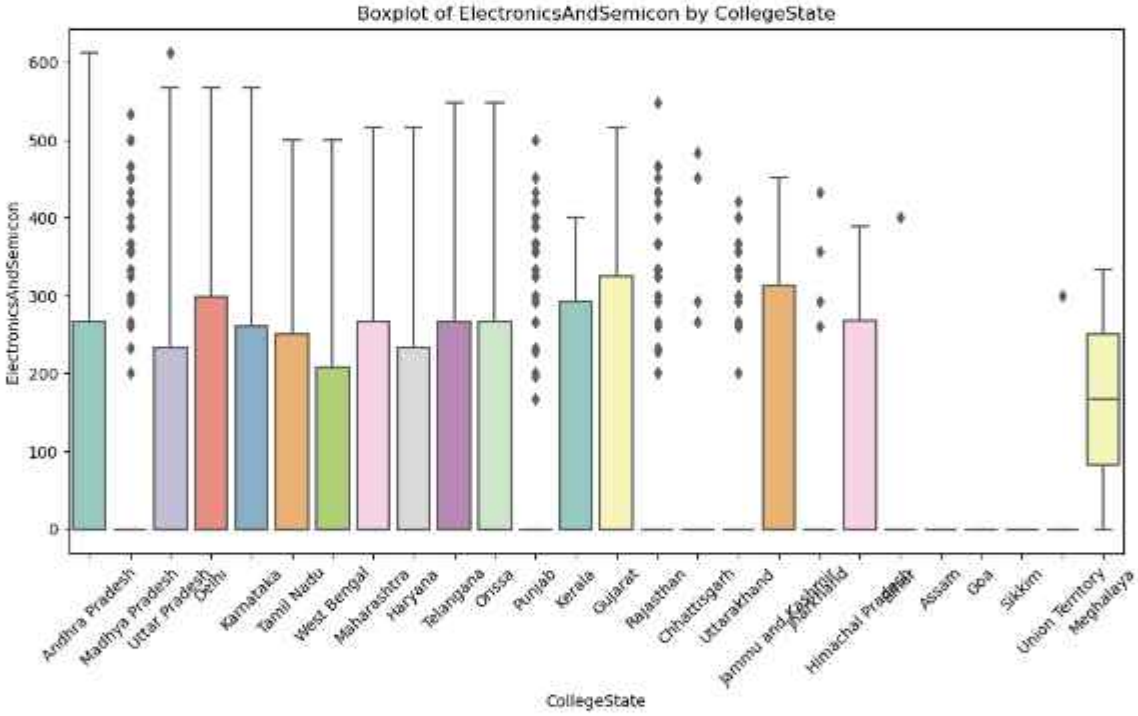

Boxplot of English by CollegeState
English
CollegeState
Andhra Pradesh
Madhya Pradesh
Uttar Pradesh
Delhi
Karnataka
Tamil Nadu
West Bengal
Maharashtra
Haryana
Telangana
Orissa
Punjab
Kerala
Gujarat
Rajasthan
Chhattisgarh
Uttarakhand
Assam
Goa
Sikkim
Union Territory
Meghalaya

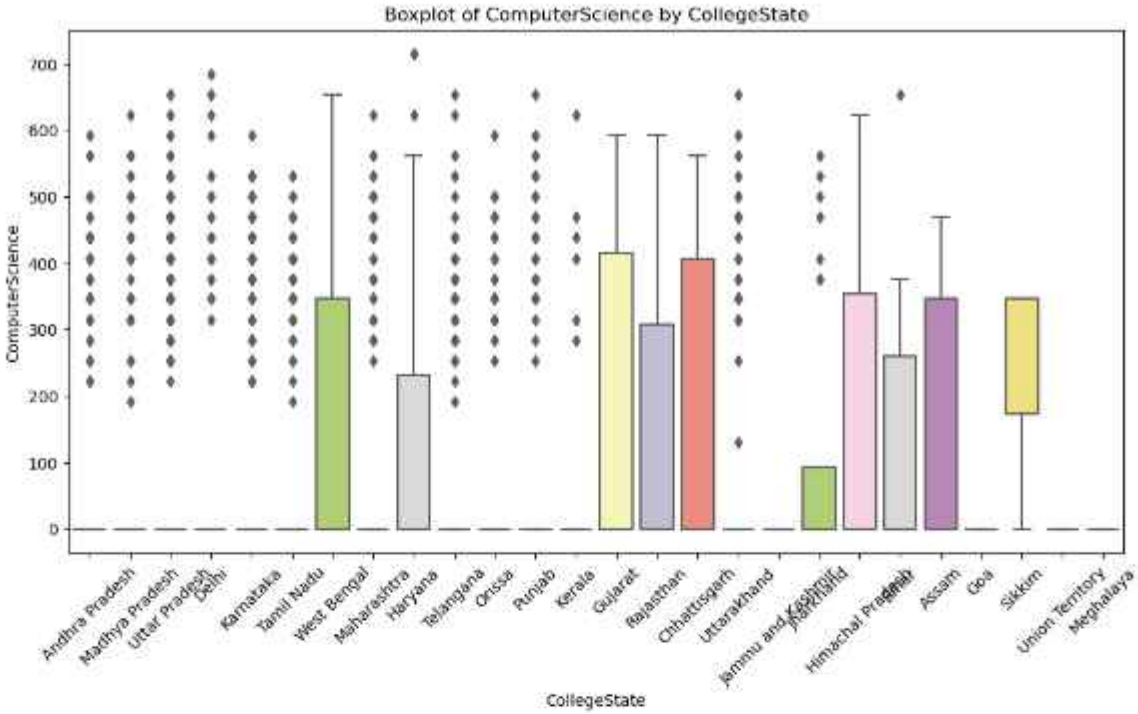

Boxplot of Logical by CollegeState
Logical
CollegeState
Andhra Pradesh
Madhya Pradesh
Uttar Pradesh
Delhi
Karnataka
Tamil Nadu
West Bengal
Maharashtra
Haryana
Telangana
Orissa
Punjab
Kerala
Gujarat
Rajasthan
Chhattisgarh
Uttarakhand
Assam
Goa
Sikkim
Union Territory
Meghalaya

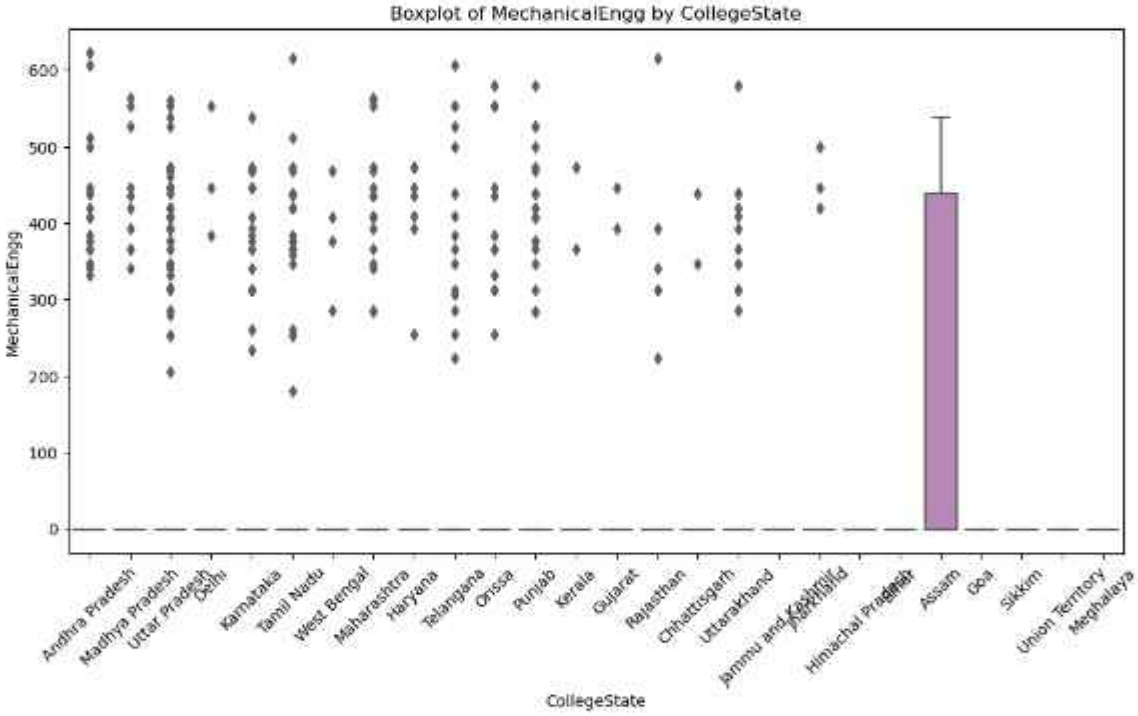

Boxplot of Quant by CollegeState
Quant
900
800
700
600
500
400
300
200
100
Andhra Pradesh
Madhya Pradesh
Uttar Pradesh
Delhi
Karnataka
Tamil Nadu
West Bengal
Maharashtra
Haryana
Telangana
Orissa
Punjab
Kerala
Gujarat
Rajasthan
Chhattisgarh
Uttarakhand
Jammu and Kashmir
Jharkhand
Himachal Pradesh
Assam
Goa
Sikkim
Union Territory
Meghalaya
CollegeState

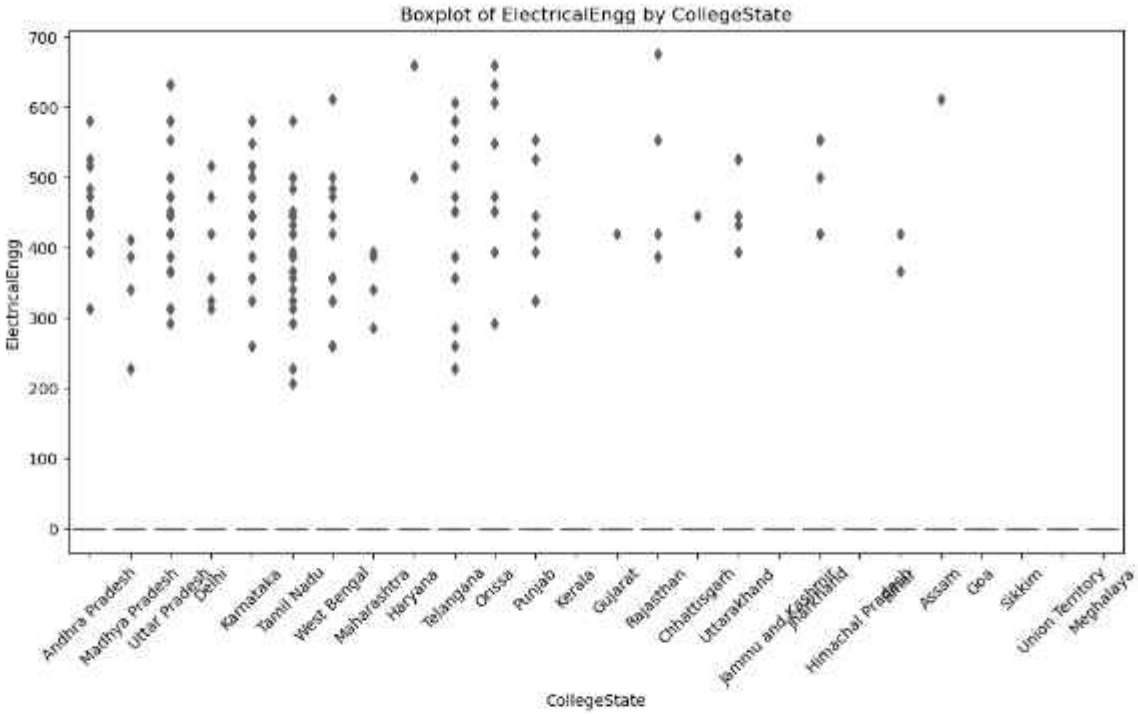

Boxplot of Domain by CollegeState
Domain
1.00
0.75
0.50
0.25
0.00
−0.25
−0.50
−0.75
−1.00
Andhra Pradesh
Madhya Pradesh
Uttar Pradesh
Delhi
Karnataka
Tamil Nadu
West Bengal
Maharashtra
Haryana
Telangana
Orissa
Punjab
Kerala
Gujarat
Rajasthan
Chhattisgarh
Uttarakhand
Jammu and Kashmir
Jharkhand
Himachal Pradesh
Assam
Goa
Sikkim
Union Territory
Meghalaya
CollegeState

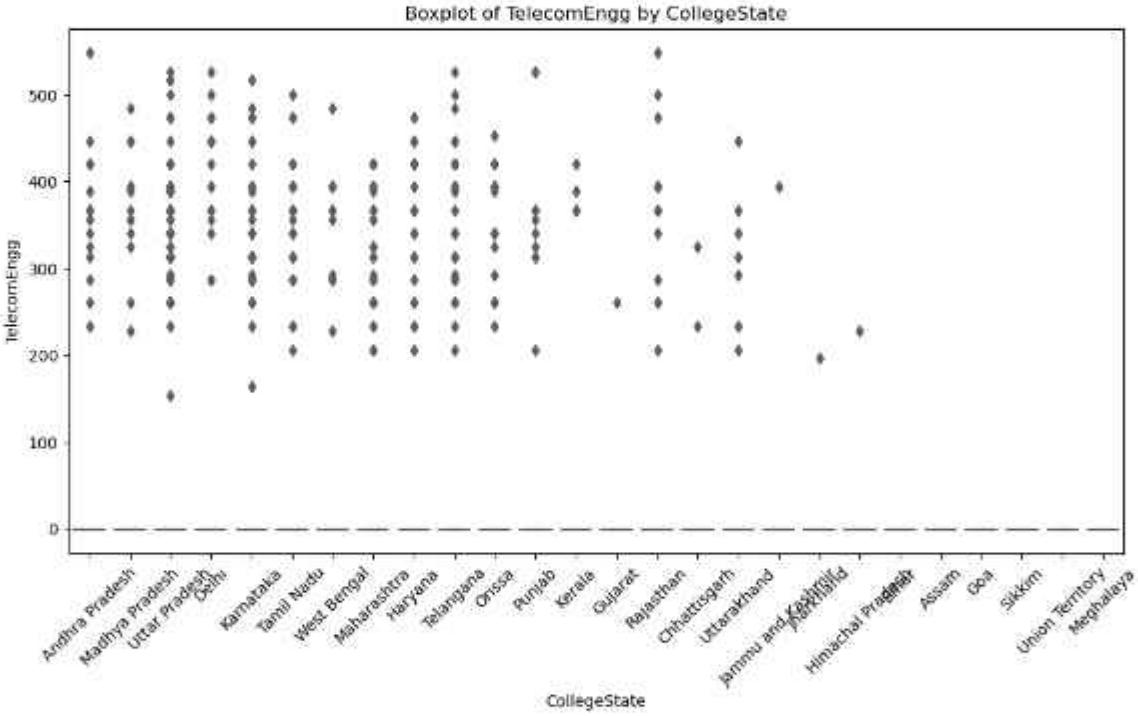

Boxplot of ComputerProgramming by CollegeState
ComputerProgramming
CollegeState
Andhra Pradesh
Madhya Pradesh
Uttar Pradesh
Delhi
Karnataka
Tamil Nadu
West Bengal
Maharashtra
Haryana
Telangana
Orissa
Punjab
Kerala
Gujarat
Rajasthan
Chhattisgarh
Uttarakhand
Assam
Goa
Sikkim
Union Territory
Meghalaya

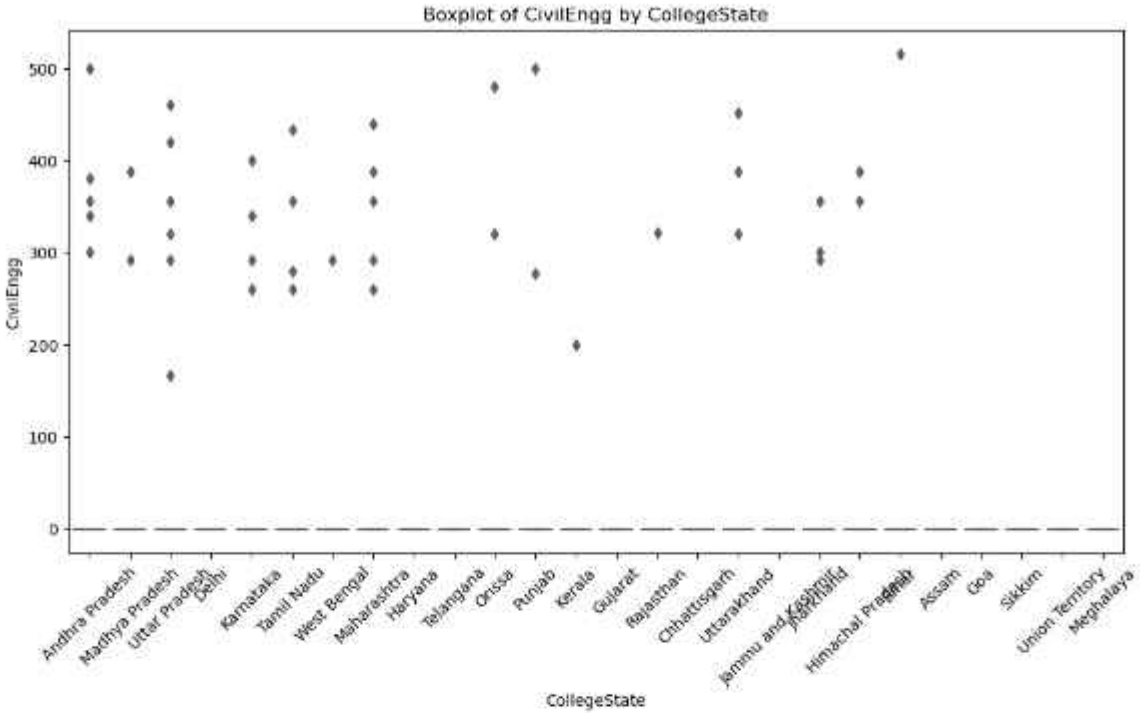

Boxplot of ElectronicsAndSemicon by CollegeState
ElectronicsAndSemicon
CollegeState
Andhra Pradesh
Madhya Pradesh
Uttar Pradesh
Delhi
Karnataka
Tamil Nadu
West Bengal
Maharashtra
Haryana
Telangana
Orissa
Punjab
Kerala
Gujarat
Rajasthan
Chhattisgarh
Uttarakhand
Assam
Goa
Sikkim
Union Territory
Meghalaya

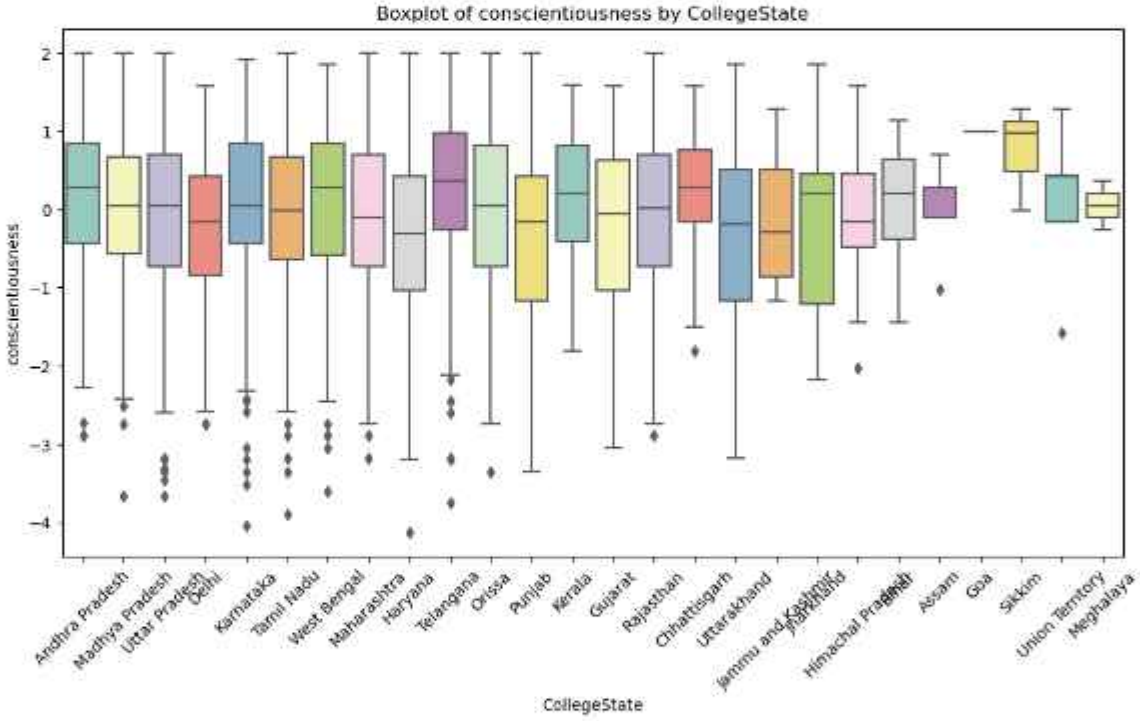

Boxplot of ComputerScience by CollegeState
ComputerScience
CollegeState
Andhra Pradesh
Madhya Pradesh
Uttar Pradesh
Delhi
Karnataka
Tamil Nadu
West Bengal
Maharashtra
Haryana
Telangana
Orissa
Punjab
Kerala
Gujarat
Rajasthan
Chhattisgarh
Uttarakhand
Assam
Goa
Sikkim
Union Territory
Meghalaya

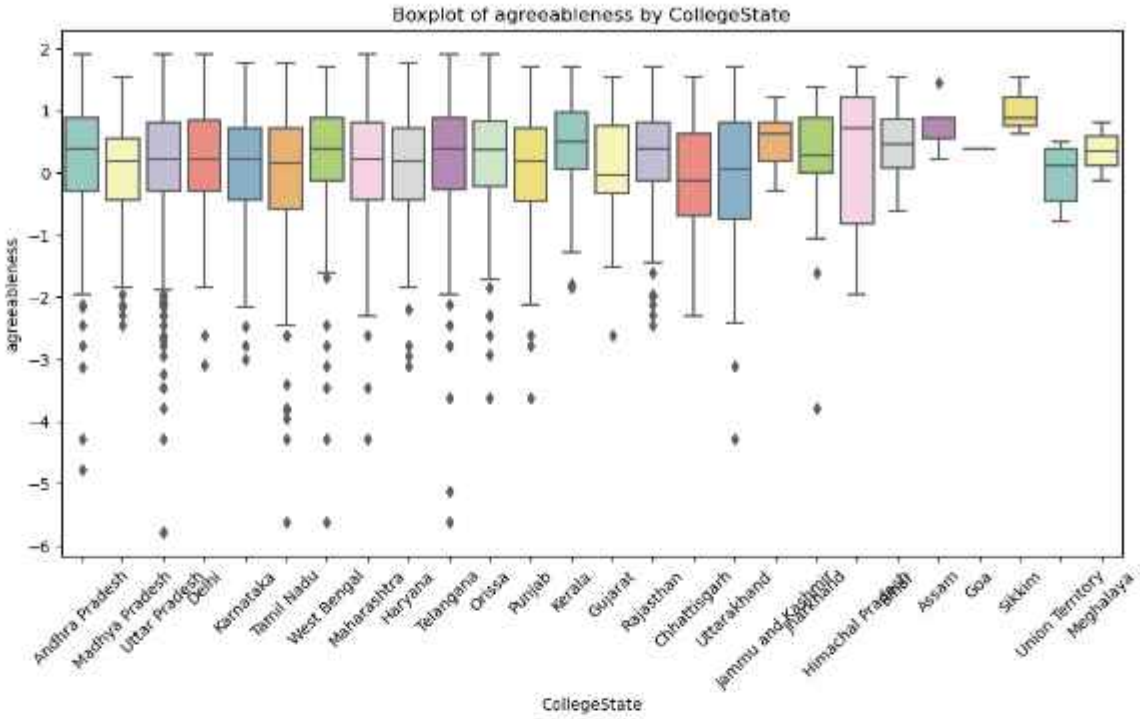

Boxplot of MechanicalEngg by CollegeState
MechanicalEngg
CollegeState
Andhra Pradesh
Madhya Pradesh
Uttar Pradesh
Delhi
Karnataka
Tamil Nadu
West Bengal
Maharashtra
Haryana
Telangana
Orissa
Punjab
Kerala
Gujarat
Rajasthan
Chhattisgarh
Uttarakhand
Assam
Goa
Sikkim
Union Territory
Meghalaya

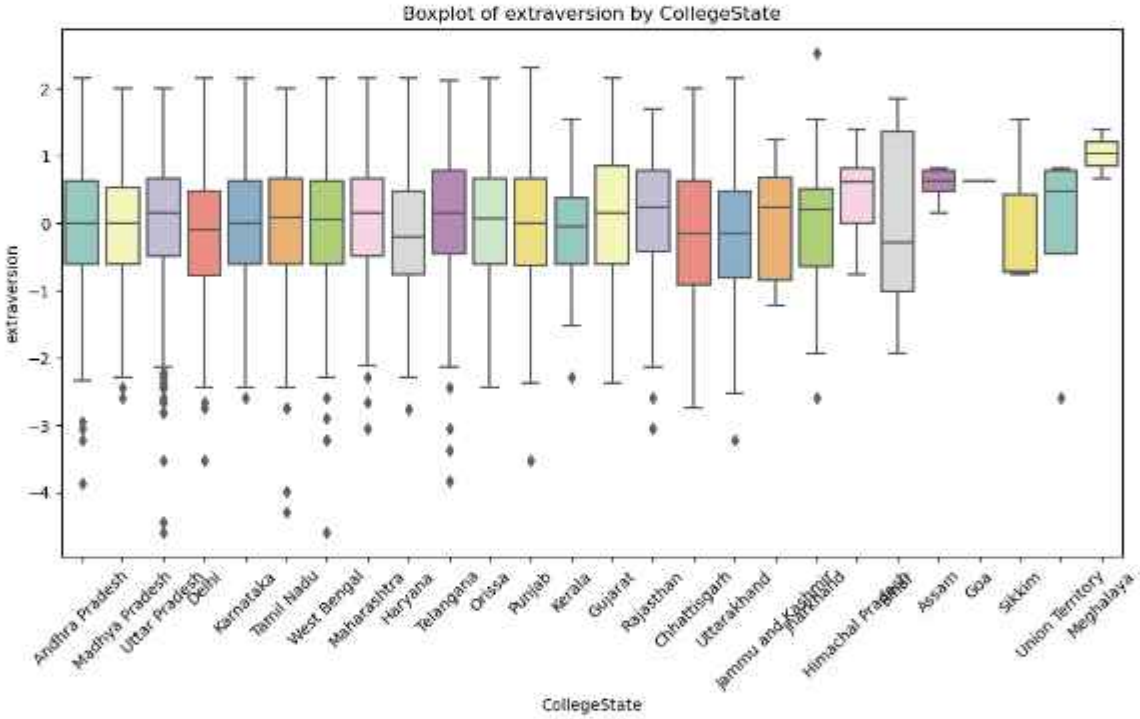

Boxplot of ElectricalEngg by CollegeState
ElectricalEngg
CollegeState
Andhra Pradesh
Madhya Pradesh
Uttar Pradesh
Delhi
Karnataka
Tamil Nadu
West Bengal
Maharashtra
Haryana
Telangana
Orissa
Punjab
Kerala
Gujarat
Rajasthan
Chhattisgarh
Uttarakhand
Jammu and Kashmir
Himachal Pradesh
Assam
Goa
Sikkim
Union Territory
Meghalaya

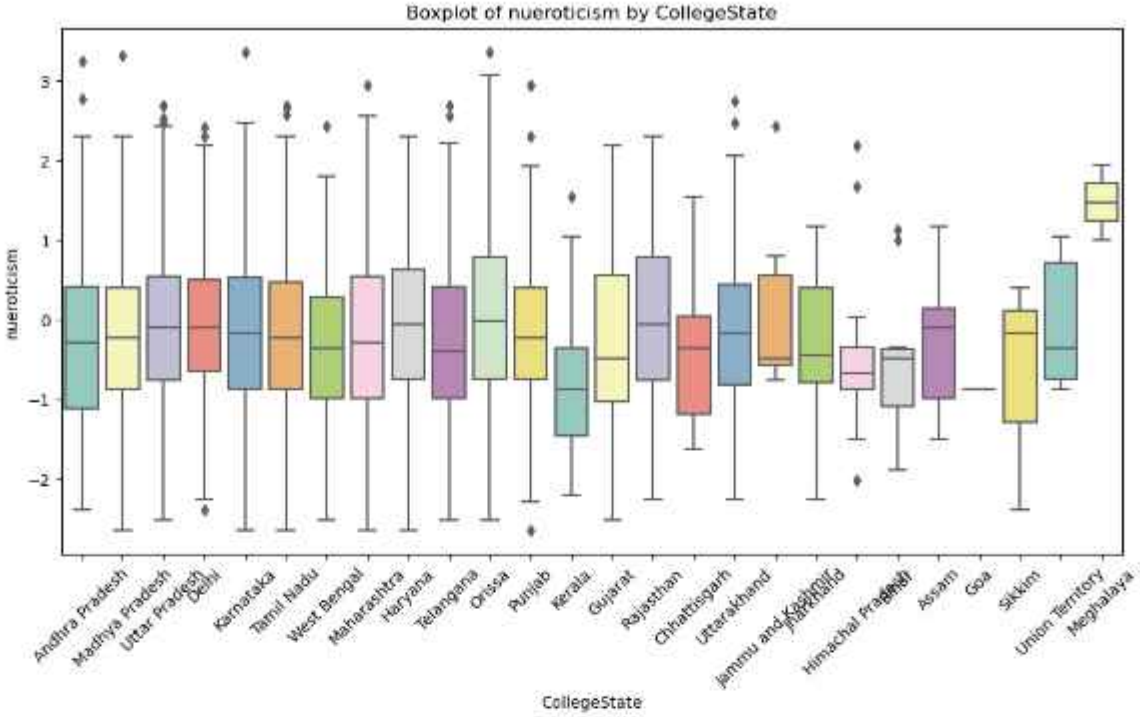

Boxplot of TelecomEngg by CollegeState
TelecomEngg
CollegeState
Andhra Pradesh
Madhya Pradesh
Uttar Pradesh
Delhi
Karnataka
Tamil Nadu
West Bengal
Maharashtra
Haryana
Telangana
Orissa
Punjab
Kerala
Gujarat
Rajasthan
Chhattisgarh
Uttarakhand
Jammu and Kashmir
Himachal Pradesh
Assam
Goa
Sikkim
Union Territory
Meghalaya

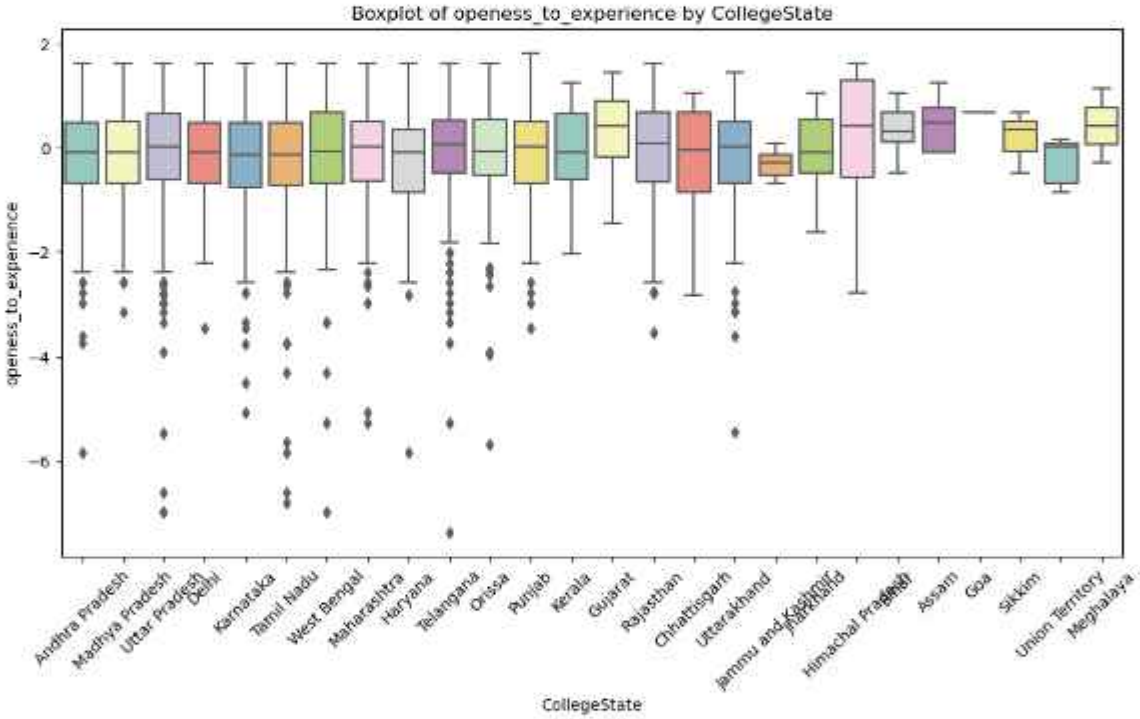

Boxplot of CivilEngg by CollegeState
CivilEngg
CollegeState
Andhra Pradesh
Madhya Pradesh
Uttar Pradesh
Delhi
Karnataka
Tamil Nadu
West Bengal
Maharashtra
Haryana
Telangana
Orissa
Punjab
Kerala
Gujarat
Rajasthan
Chhattisgarh
Uttarakhand
Jammu and Kashmir
Jharkhand
Himachal Pradesh
Assam
Goa
Sikkim
Union Territory
Meghalaya


Boxplot of conscientiousness by CollegeState
conscientiousness
CollegeState
Andhra Pradesh
Madhya Pradesh
Uttar Pradesh
Delhi
Karnataka
Tamil Nadu
West Bengal
Maharashtra
Haryana
Telangana
Orissa
Punjab
Kerala
Gujarat
Rajasthan
Chhattisgarh
Uttarakhand
Jammu and Kashmir
Jharkhand
Himachal Pradesh
Assam
Goa
Sikkim
Union Territory
Meghalaya


Boxplot of agreeableness by CollegeState
agreeableness
CollegeState
Andhra Pradesh
Madhya Pradesh
Uttar Pradesh
Delhi
Karnataka
Tamil Nadu
West Bengal
Maharashtra
Haryana
Telangana
Orissa
Punjab
Kerala
Gujarat
Rajasthan
Chhattisgarh
Uttarakhand
Jammu and Kashmir
Jharkhand
Himachal Pradesh
Assam
Goa
Sikkim
Union Territory
Meghalaya


Boxplot of extraversion by CollegeState
extraversion
CollegeState
Andhra Pradesh
Madhya Pradesh
Uttar Pradesh
Delhi
Karnataka
Tamil Nadu
West Bengal
Maharashtra
Haryana
Telangana
Orissa
Punjab
Kerala
Gujarat
Rajasthan
Chhattisgarh
Uttarakhand
Jammu and Kashmir
Jharkhand
Himachal Pradesh
Assam
Goa
Sikkim
Union Territory
Meghalaya





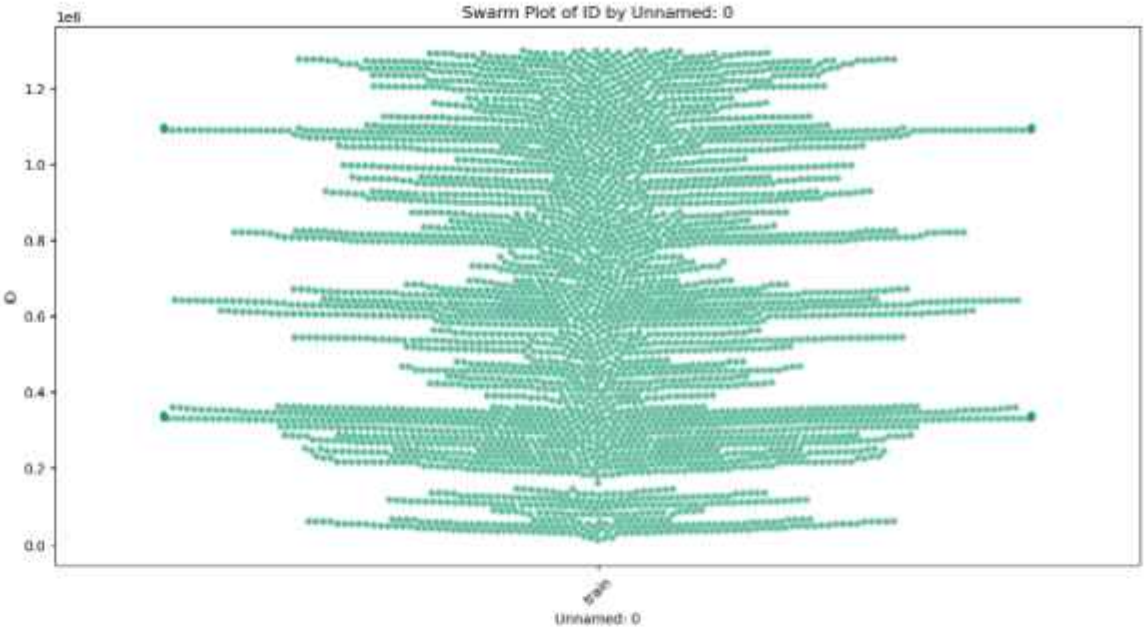
Swarm plot to visualize the spread of numerical variables across categories

In [5]:
```
# Limiting the loop to plot only 5 swarm plots
plot_count = 0
max_plots = 5  # Set the limit to 5 plots

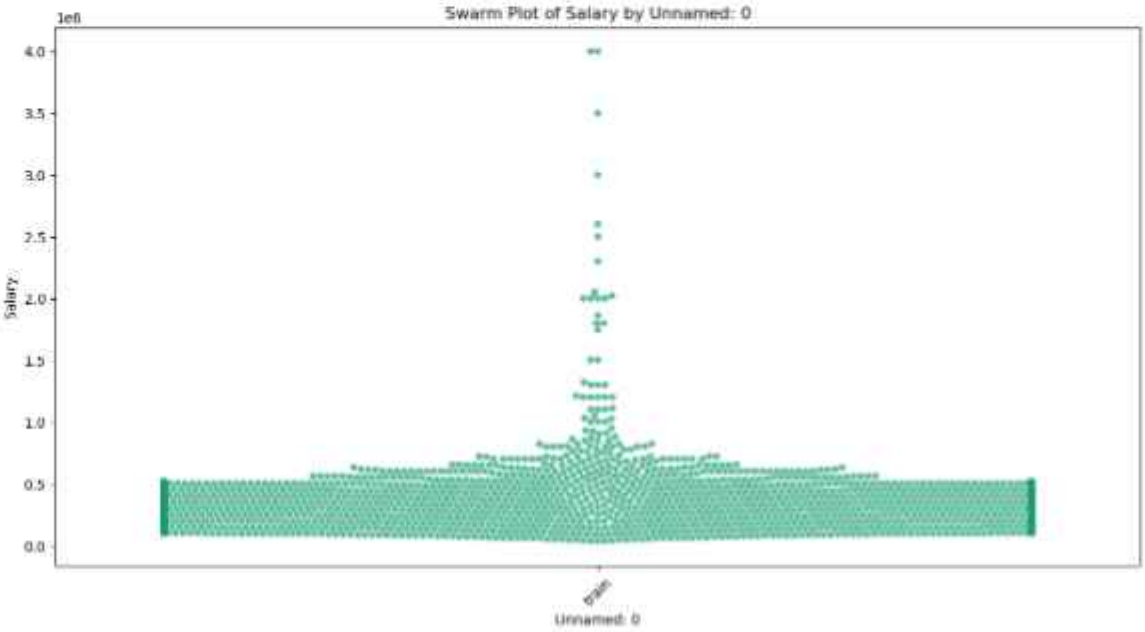
for col in categorical_cols:
    for num_col in numerical_cols:
        plt.figure(figsize=(14, 7))
        sns.swarmplot(x=col, y=num_col, data=df, palette='Dark2', alpha=0.
7)
        plt.title(f'Swarm Plot of {num_col} by {col}')
        plt.xticks(rotation=45)
        plt.show()

        plot_count += 1
        if plot_count == max_plots:
            break
    if plot_count == max_plots:
        break
```

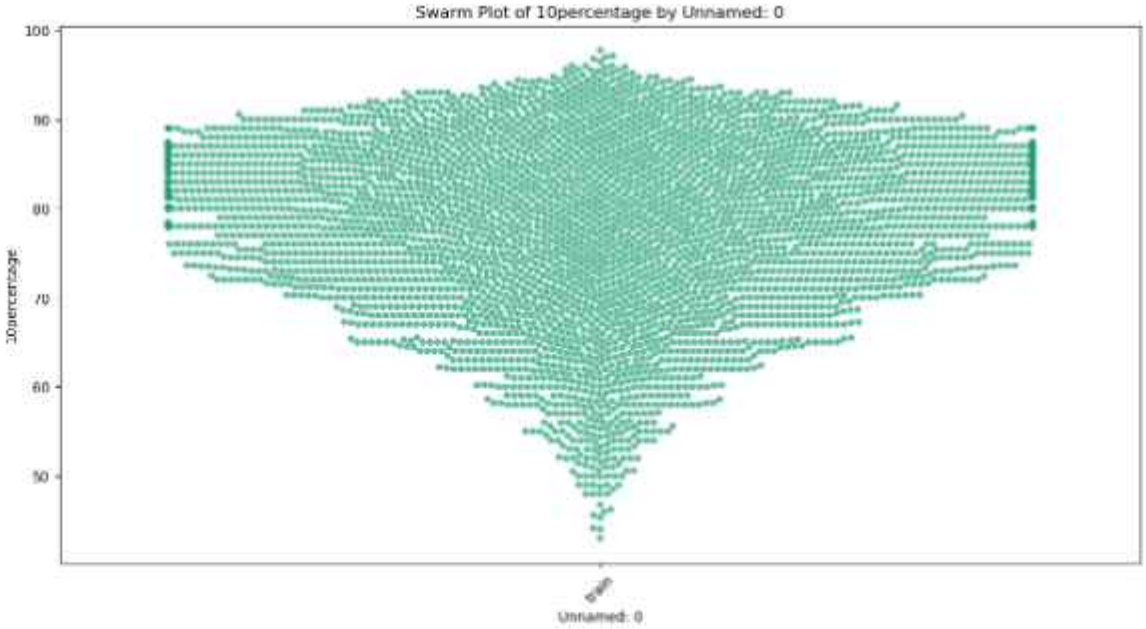
```
C:\Users\prasa\AppData\Local\Temp\ipykernel_17936\296878224.py:8: FutureWa
rning: Passing `palette` without assigning `hue` is deprecated.
  sns.swarmplot(x=col, y=num_col, data=df, palette='Dark2', alpha=0.7)
```



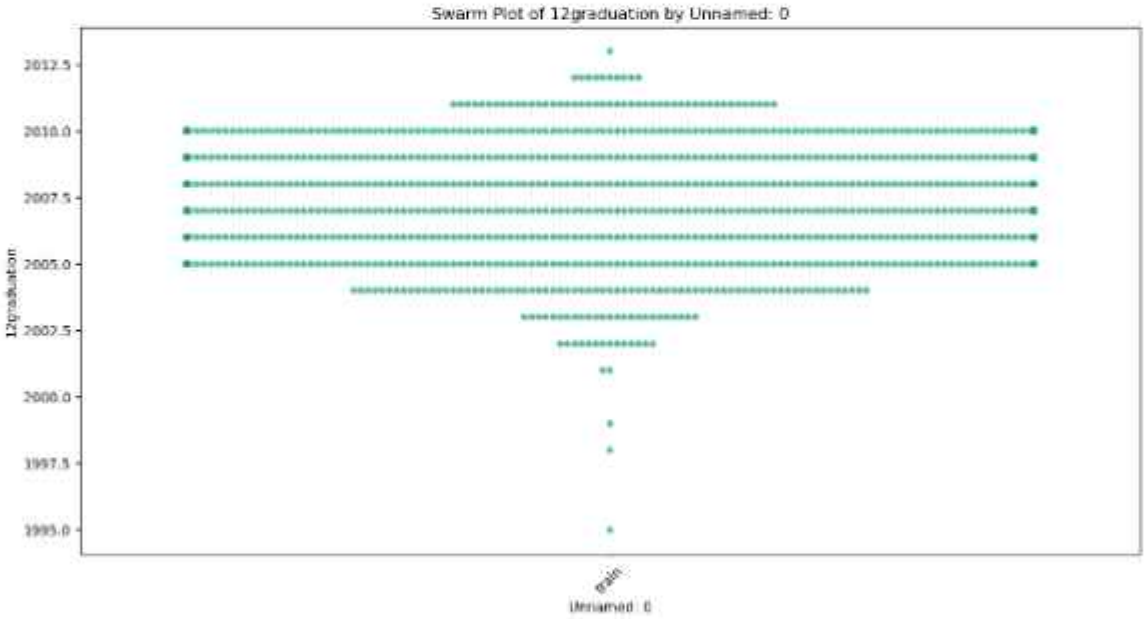

```
C:\Users\prasa\AppData\Local\Temp\ipykernel_17936\296878224.py:8: FutureWa
rning: Passing `palette` without assigning `hue` is deprecated.
  sns.swarmplot(x=col, y=num_col, data=df, palette='Dark2', alpha=0.7)
C:\Users\prasa\anaconda3\lib\site-packages\seaborn\categorical.py:3544: Us
erWarning: 65.8% of the points cannot be placed; you may want to decrease
the size of the markers or use stripplot.
  warnings.warn(msg, UserWarning)
```



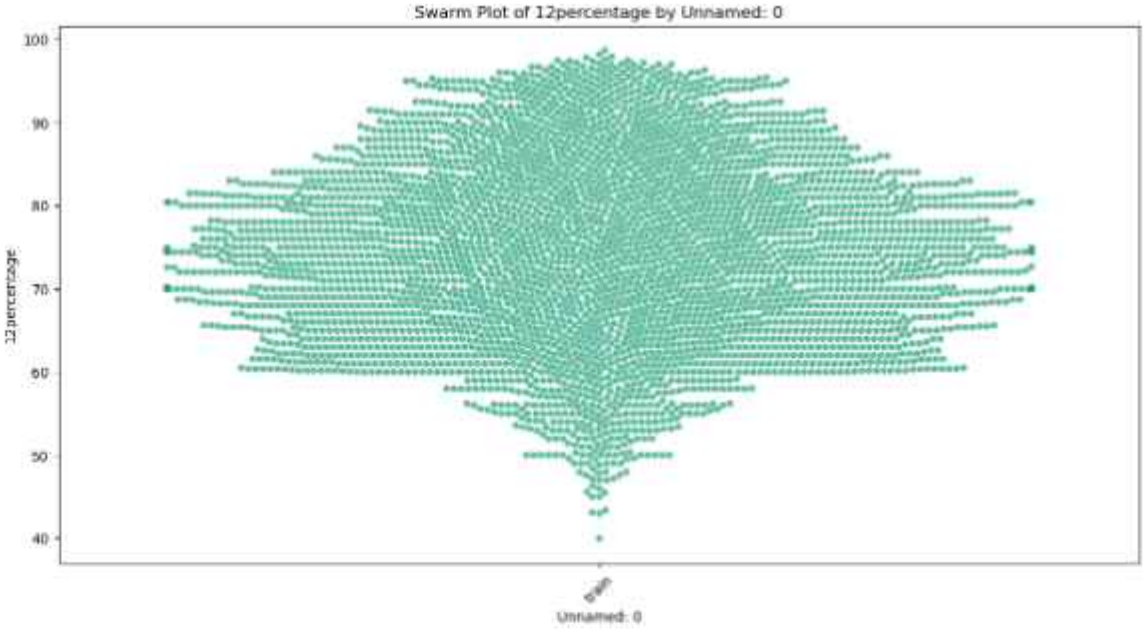

```
C:\Users\prasa\AppData\Local\Temp\ipykernel_17936\296878224.py:8: FutureWa
rning: Passing `palette` without assigning `hue` is deprecated.
  sns.swarmplot(x=col, y=num_col, data=df, palette='Dark2', alpha=0.7)
```




```
C:\Users\prasa\AppData\Local\Temp\ipykernel_17936\296878224.py:8: FutureWa
rning: Passing `palette` without assigning `hue` is deprecated.
  sns.swarmplot(x=col, y=num_col, data=df, palette='Dark2', alpha=0.7)
C:\Users\prasa\anaconda3\lib\site-packages\seaborn\categorical.py:3544: Us
erWarning: 77.8% of the points cannot be placed; you may want to decrease
the size of the markers or use stripplot.
  warnings.warn(msg, UserWarning)
```




```
C:\Users\prasa\AppData\Local\Temp\ipykernel_17936\296878224.py:8: FutureWa
rning: Passing `palette` without assigning `hue` is deprecated.
  sns.swarmplot(x=col, y=num_col, data=df, palette='Dark2', alpha=0.7)
```



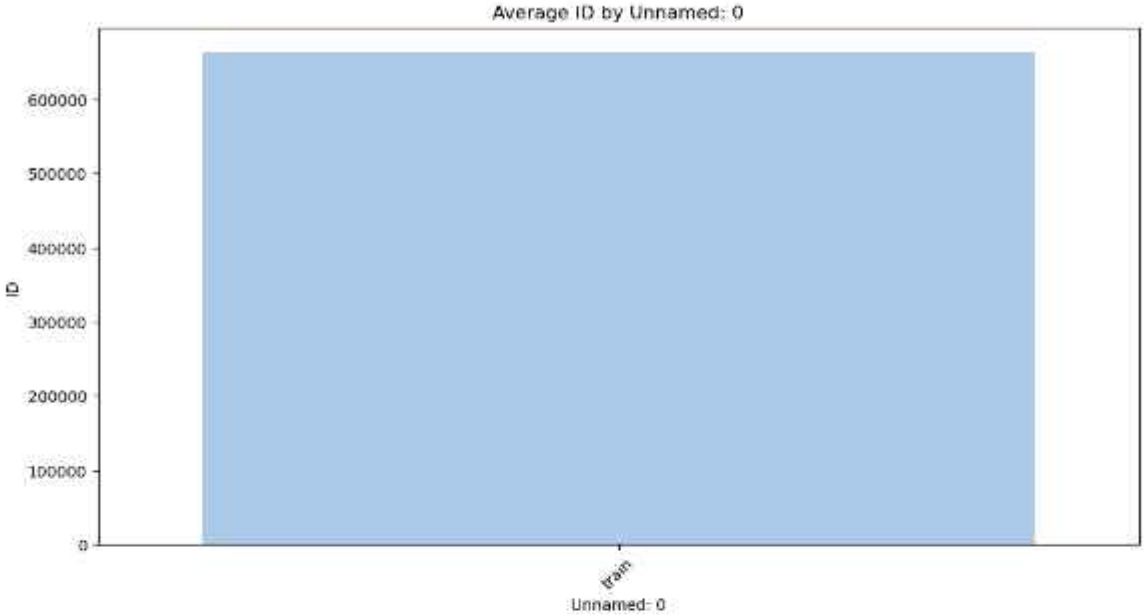
Barplot to understand the average value of numerical columns across categories

In [3]:
```
for col in categorical_cols:
    for num_col in numerical_cols:
        plt.figure(figsize=(12, 6))
        sns.barplot(x=col, y=num_col, data=df, palette='pastel', ci=None)
        plt.title(f'Average {num_col} by {col}')
        plt.xticks(rotation=45)
        plt.show()
```

```
C:\Users\prasa\AppData\Local\Temp\ipykernel_17936\11244715.py:4: FutureWar
ning:

The `ci` parameter is deprecated. Use `errorbar=None` for the same effect.

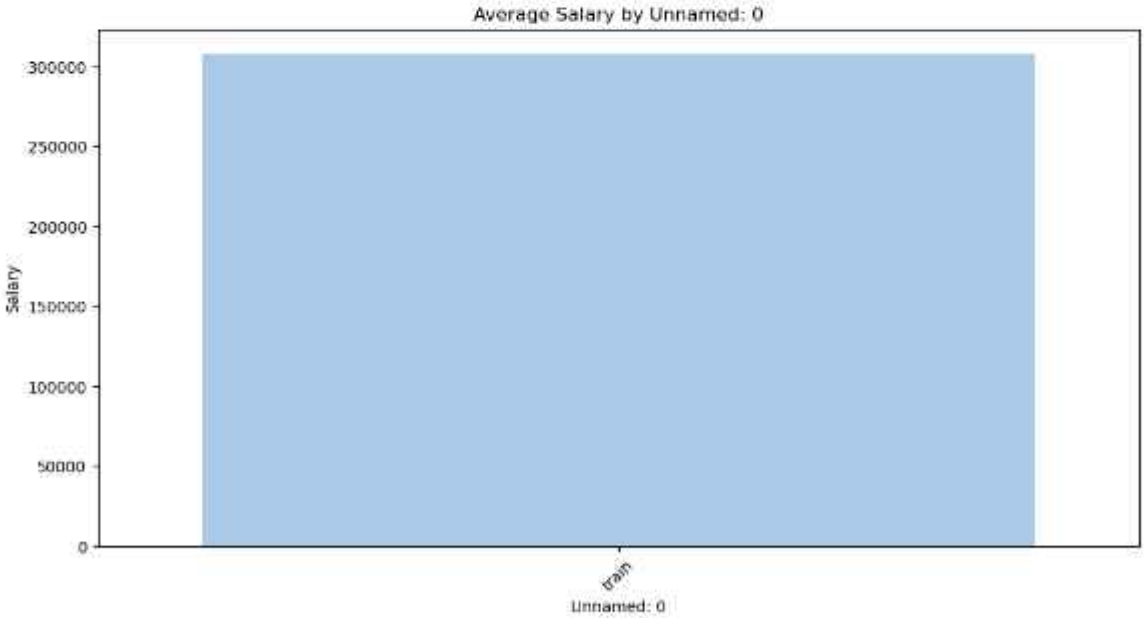
  sns.barplot(x=col, y=num_col, data=df, palette='pastel', ci=None)
```




```
C:\Users\prasa\AppData\Local\Temp\ipykernel_17936\11244715.py:4: FutureWar
ning:

The `ci` parameter is deprecated. Use `errorbar=None` for the same effect.

  sns.barplot(x=col, y=num_col, data=df, palette='pastel', ci=None)
```




```
C:\Users\prasa\AppData\Local\Temp\ipykernel_17936\11244715.py:4: FutureWar
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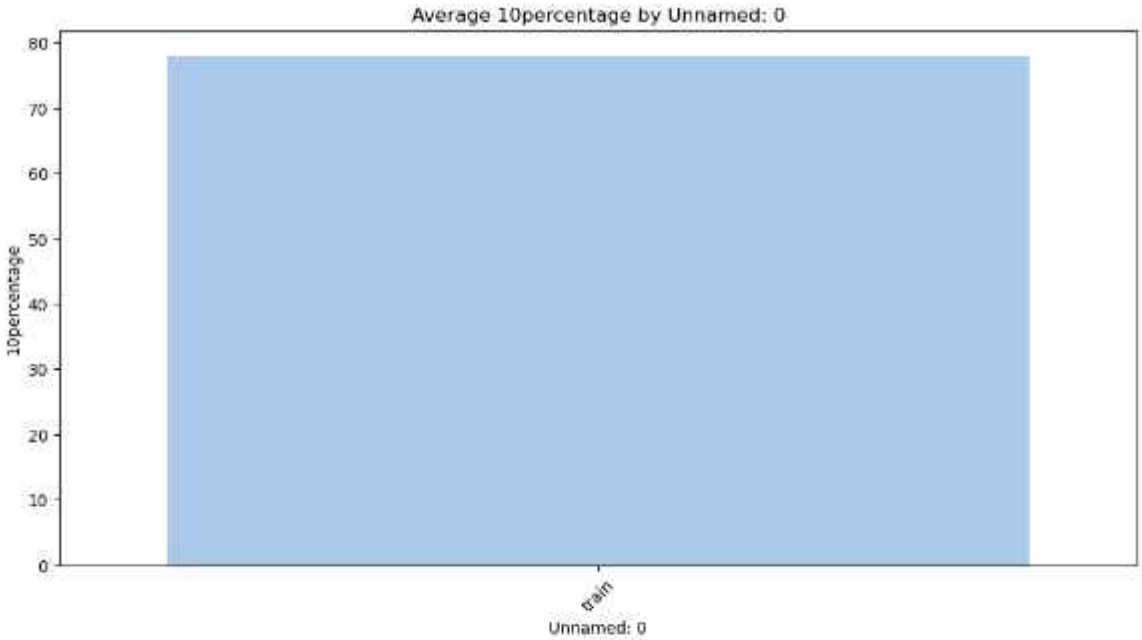
The `ci` parameter is deprecated. Use `errorbar=None` for the same effect.

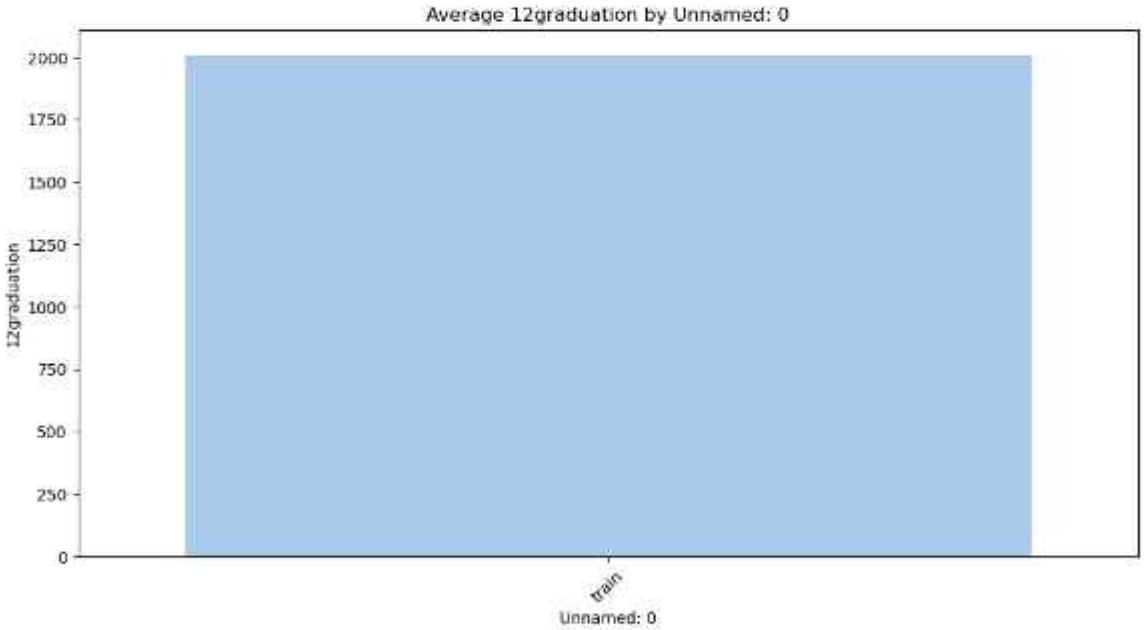
  sns.barplot(x=col, y=num_col, data=df, palette='pastel', ci=None)
```




```
C:\Users\prasa\AppData\Local\Temp\ipykernel_17936\11244715.py:4: FutureWar
ning:

The `ci` parameter is deprecated. Use `errorbar=None` for the same effect.

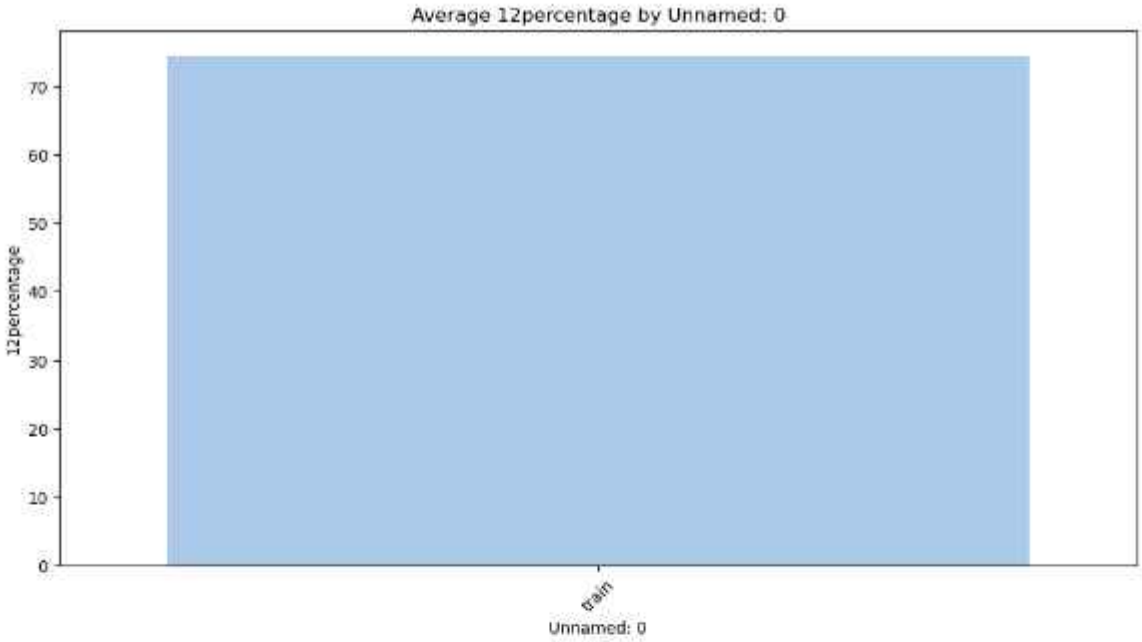
  sns.barplot(x=col, y=num_col, data=df, palette='pastel', ci=None)
```




```
C:\Users\prasa\AppData\Local\Temp\ipykernel_17936\11244715.py:4: FutureWar
ning:

The `ci` parameter is deprecated. Use `errorbar=None` for the same effect.

  sns.barplot(x=col, y=num_col, data=df, palette='pastel', ci=None)
```




```
C:\Users\prasa\AppData\Local\Temp\ipykernel_17936\11244715.py:4: FutureWar
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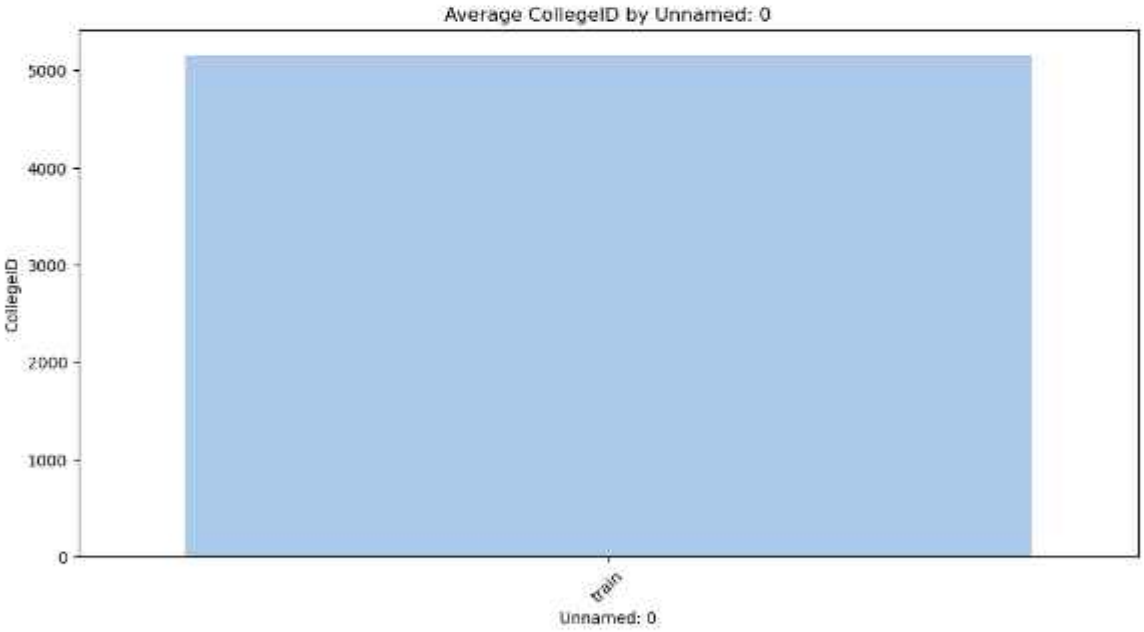
The `ci` parameter is deprecated. Use `errorbar=None` for the same effect.

  sns.barplot(x=col, y=num_col, data=df, palette='pastel', ci=None)
```




```
C:\Users\prasa\AppData\Local\Temp\ipykernel_17936\11244715.py:4: FutureWar
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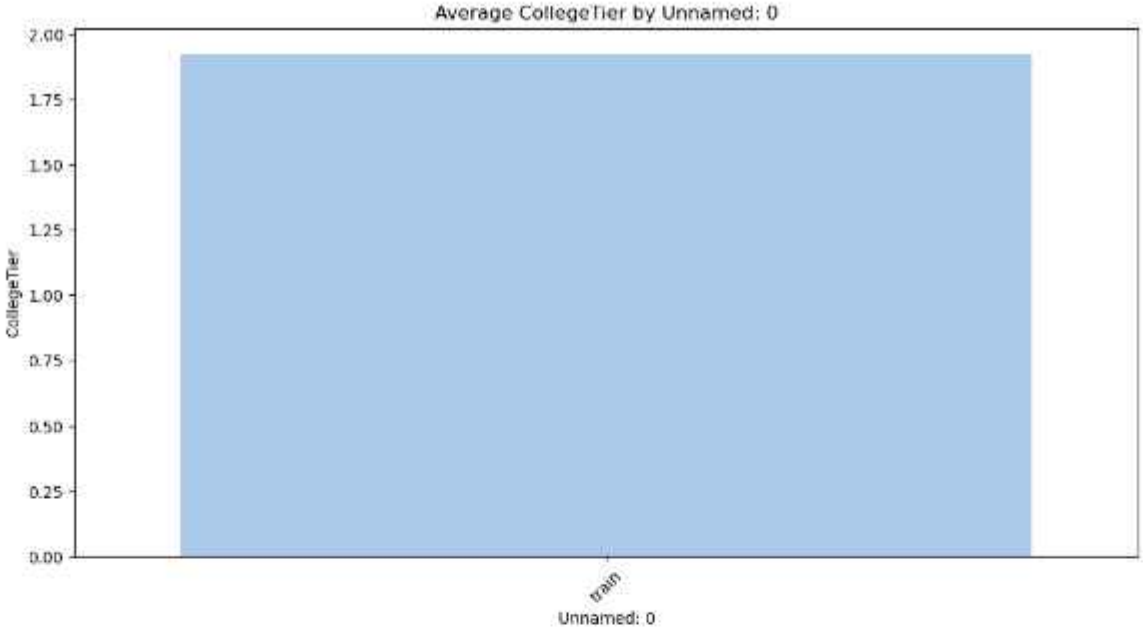


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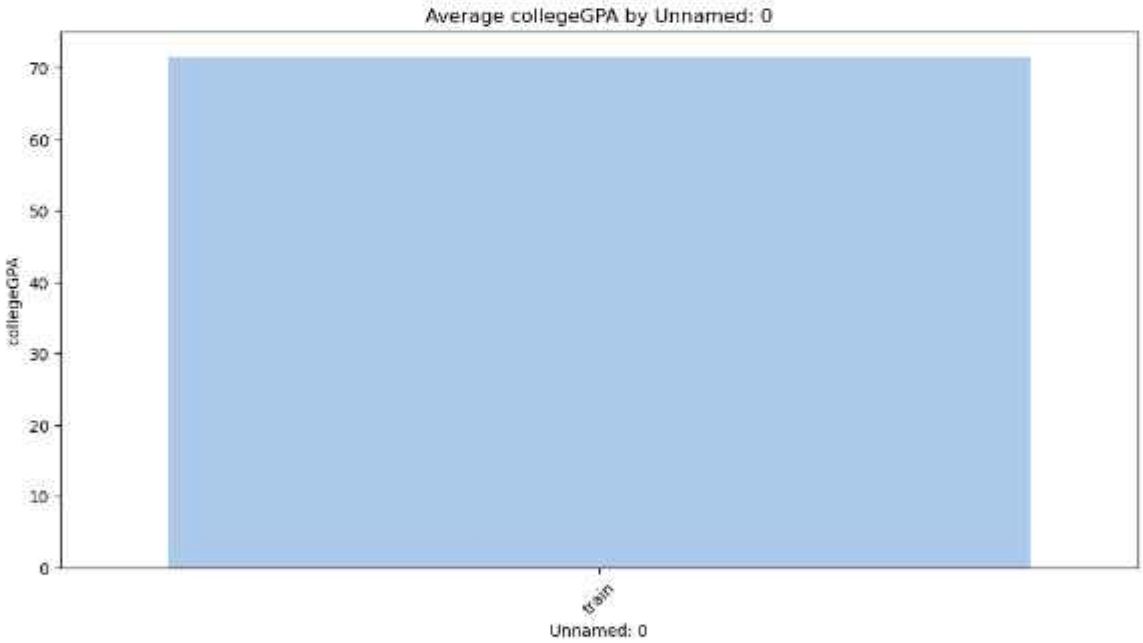


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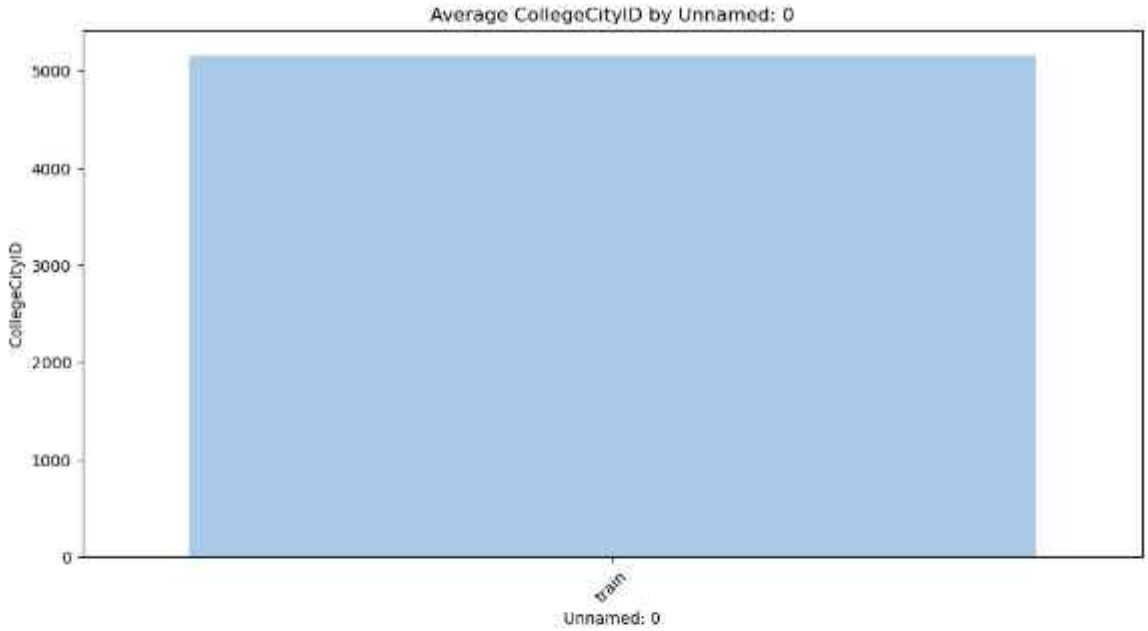


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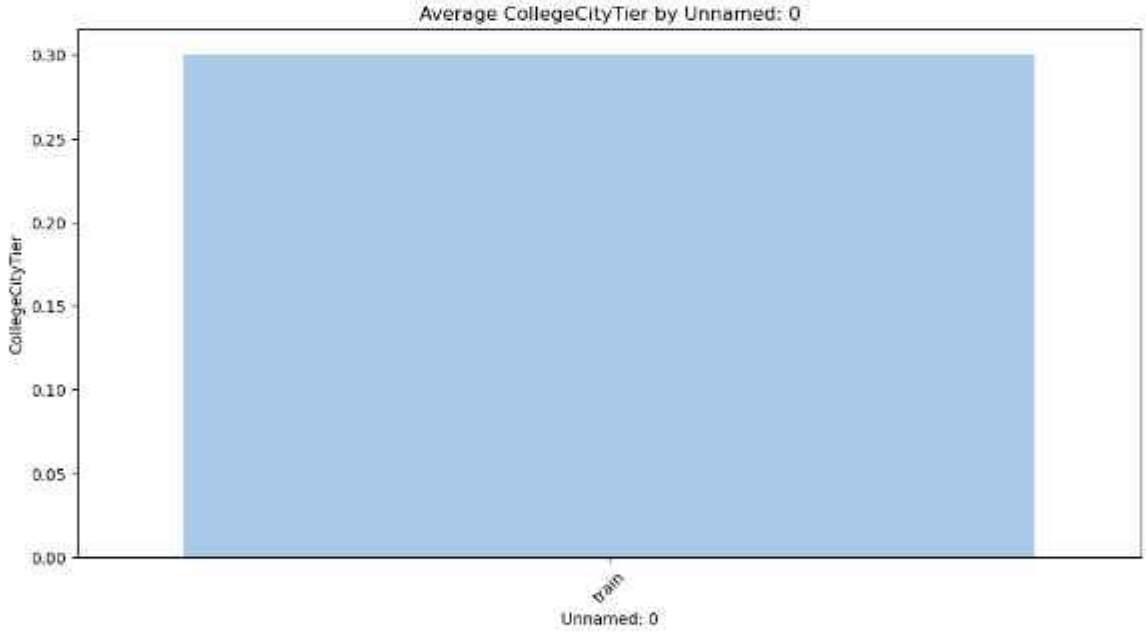


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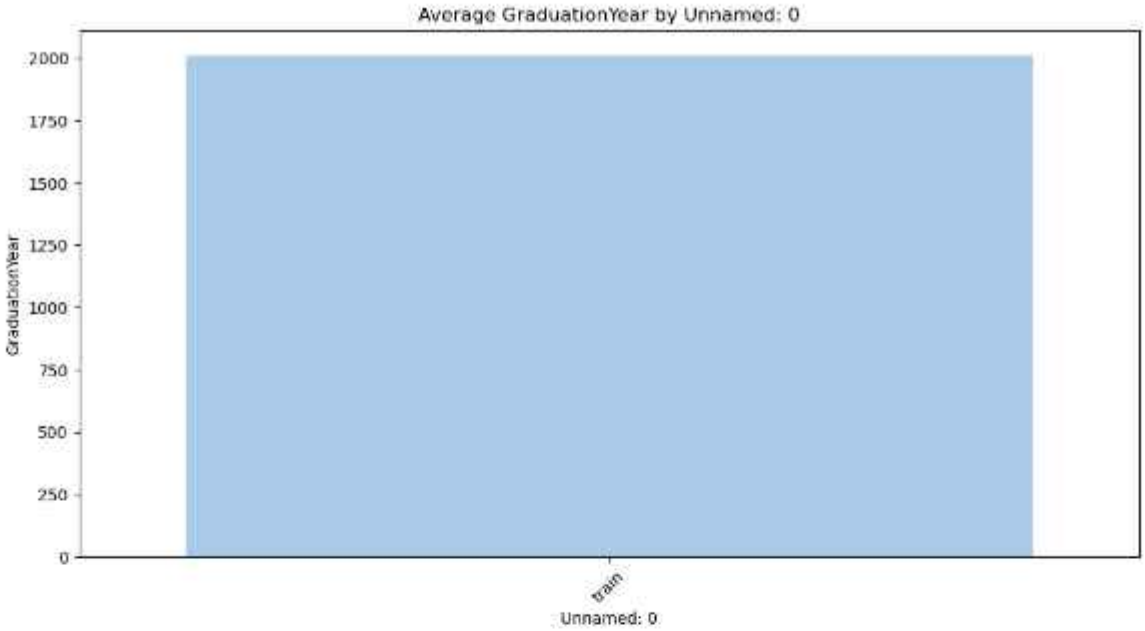


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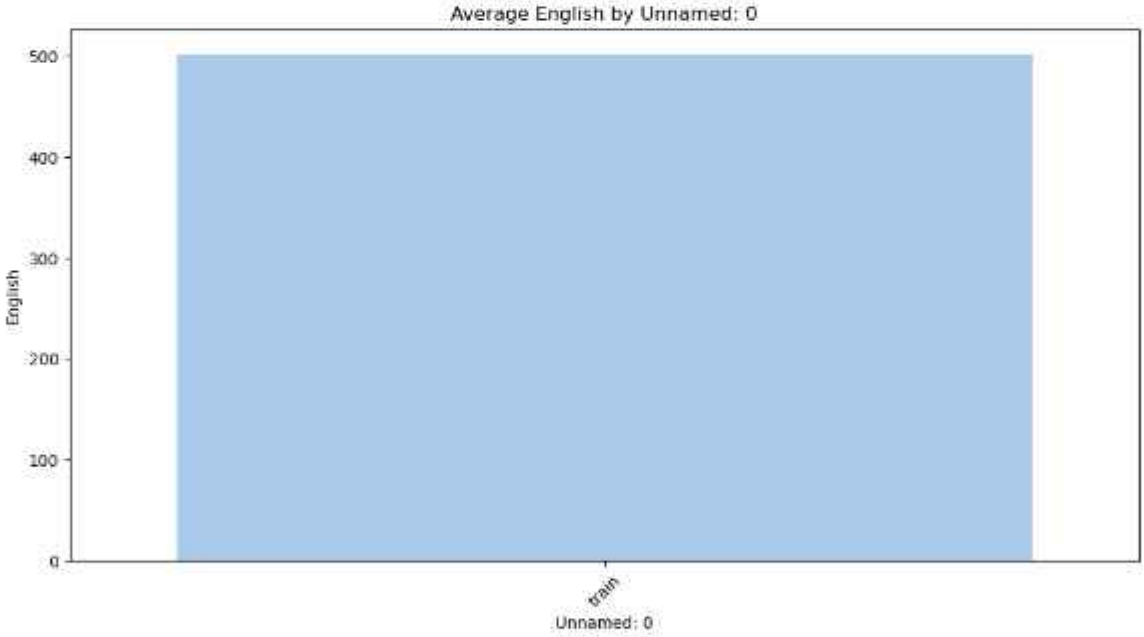


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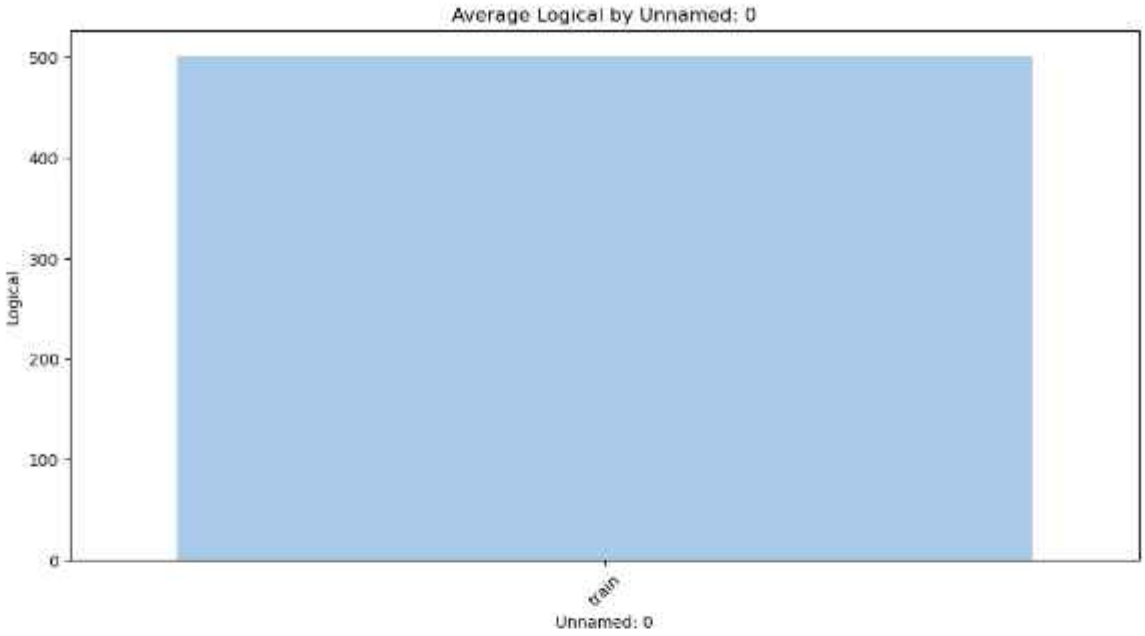


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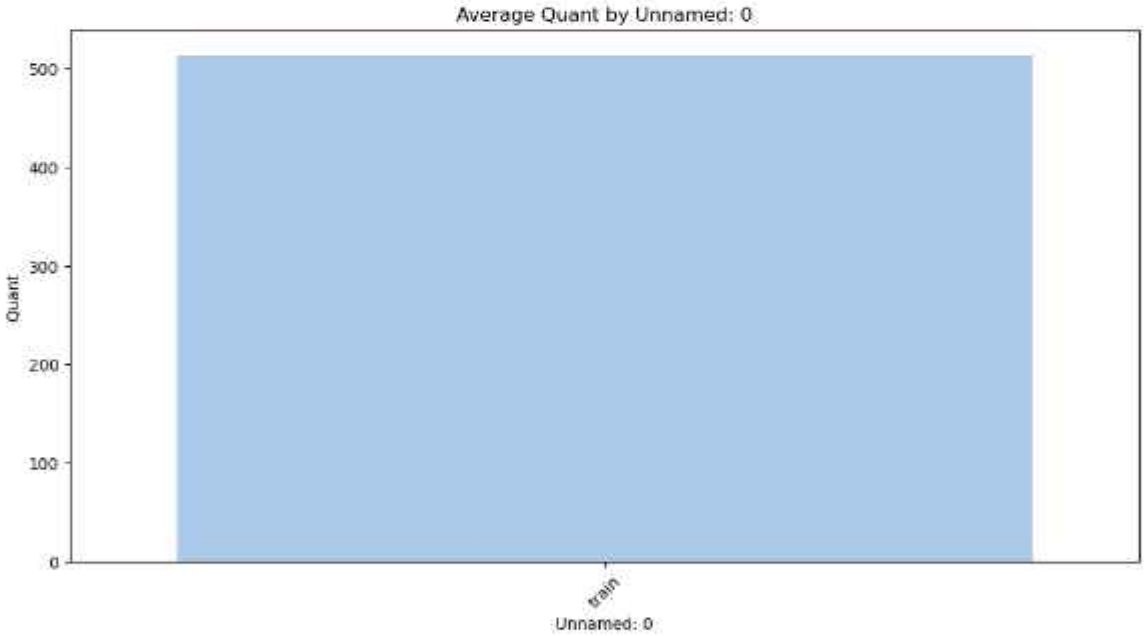


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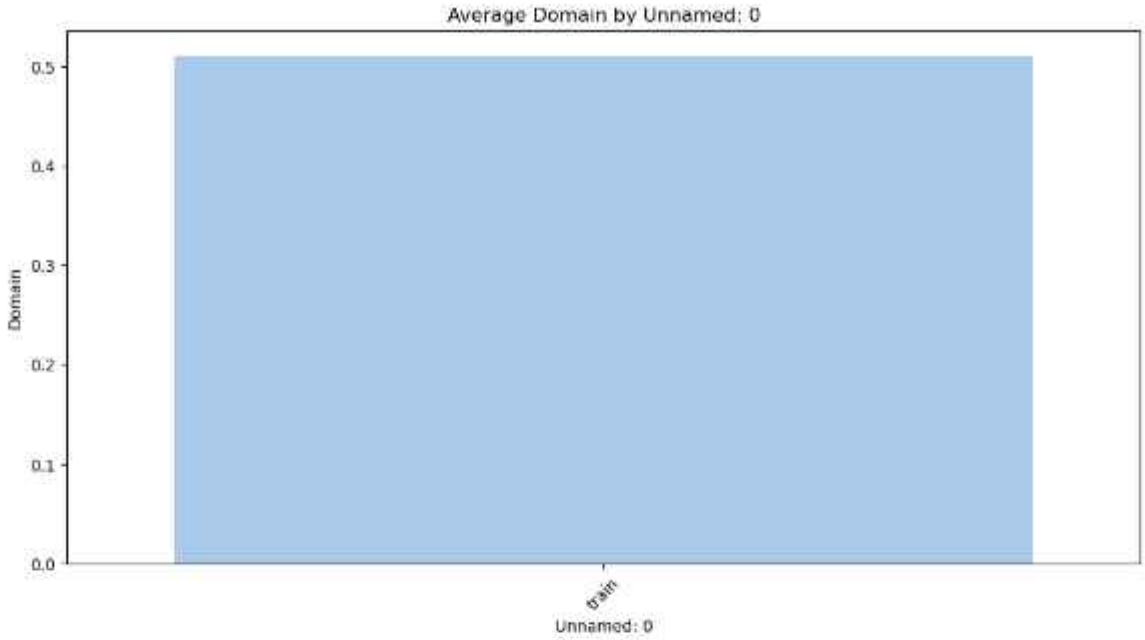


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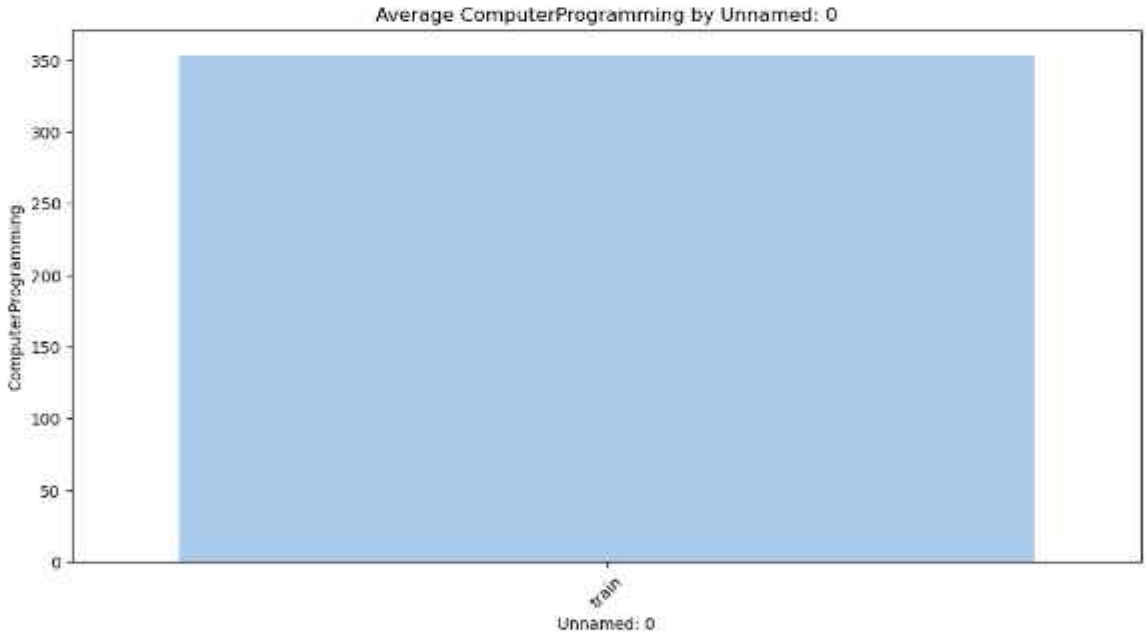


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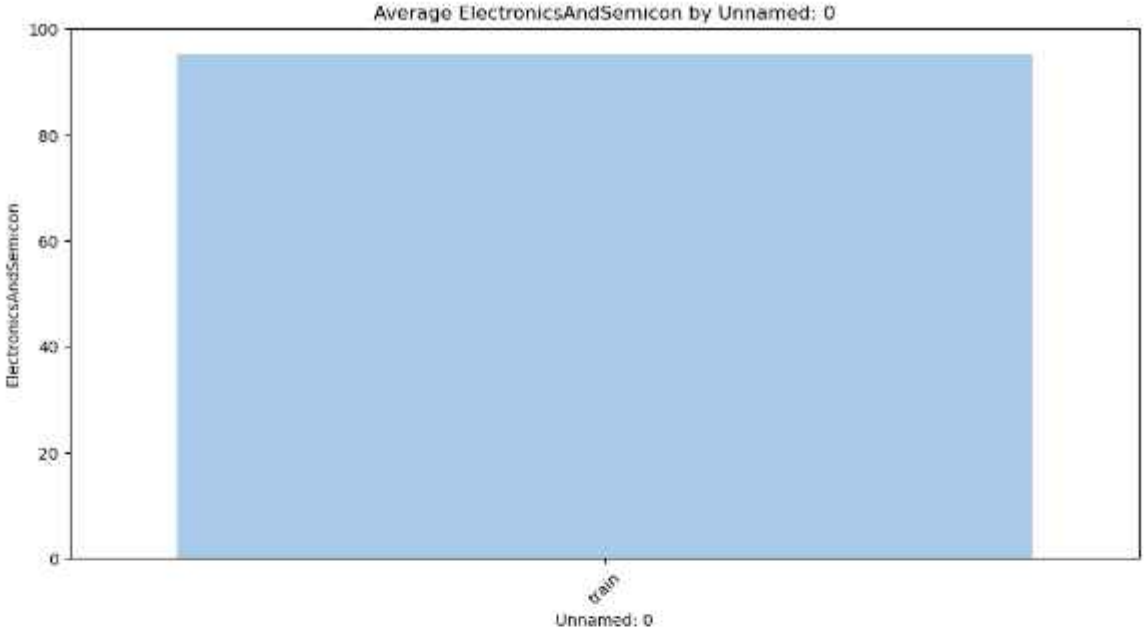


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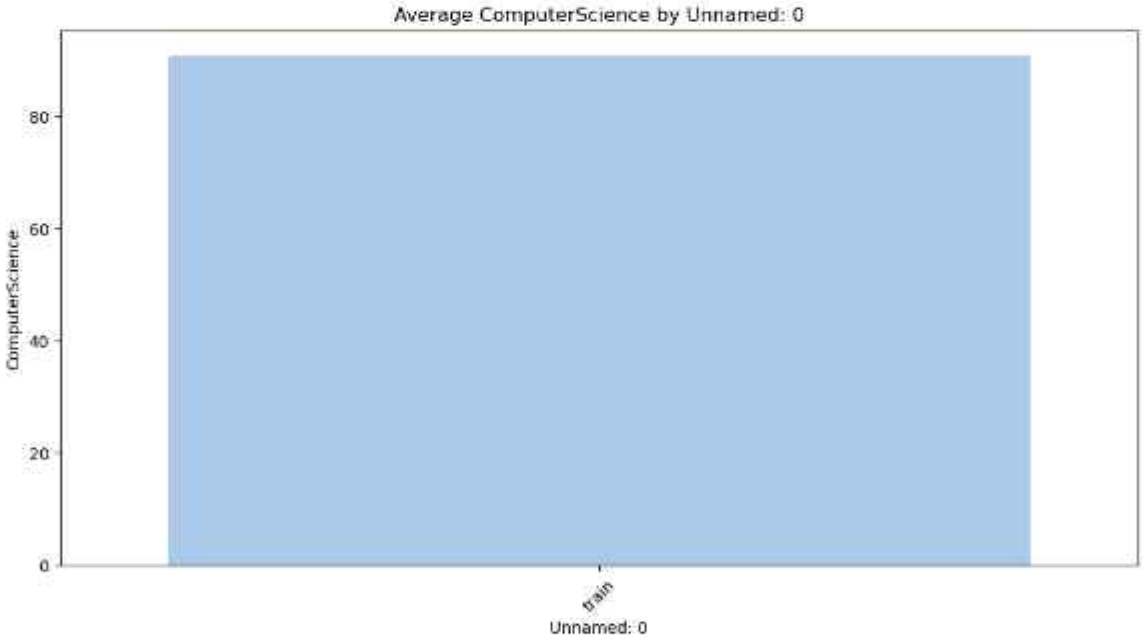


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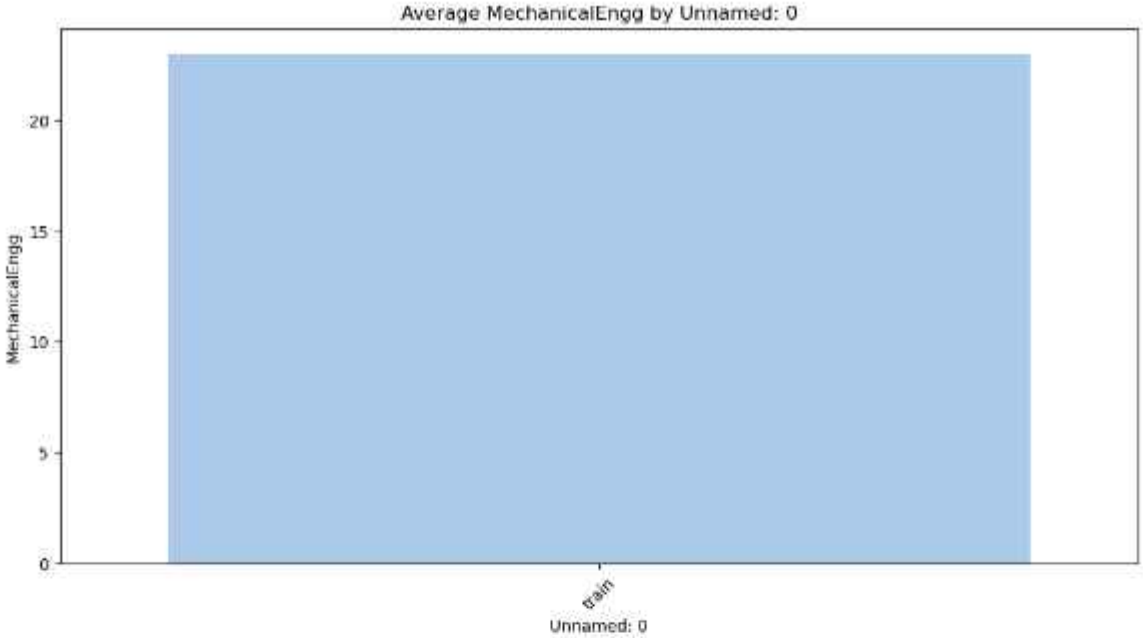


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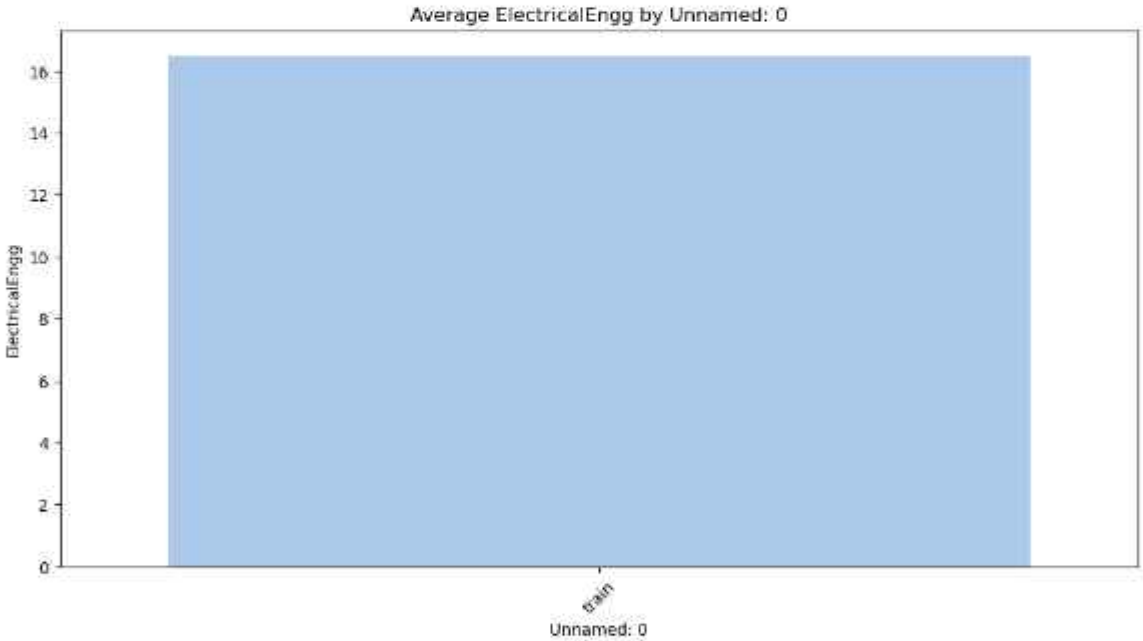


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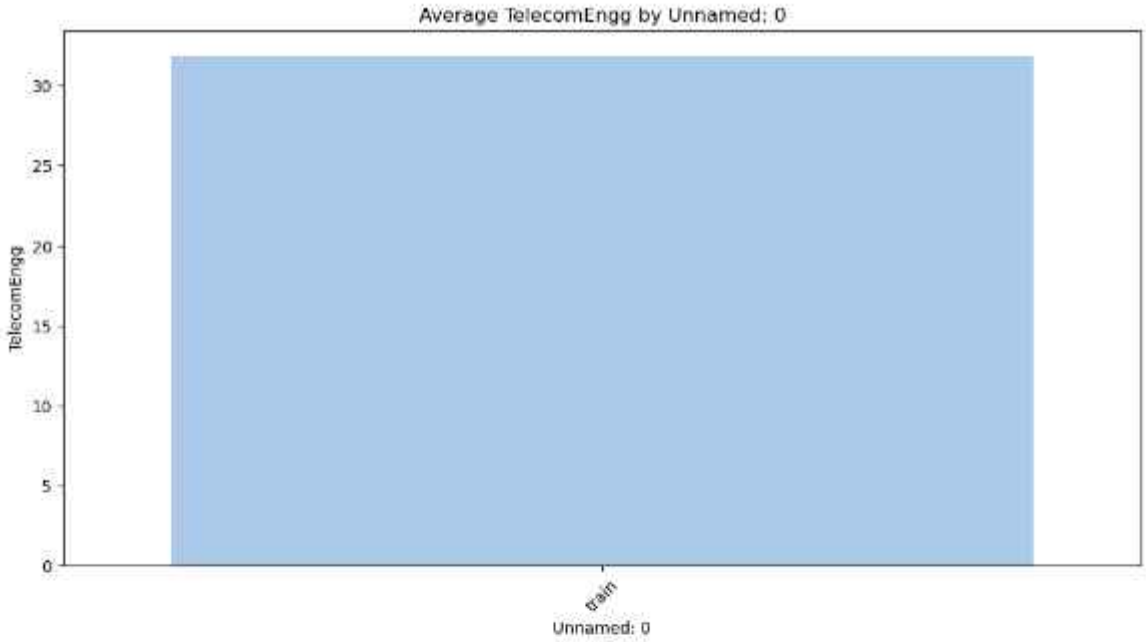


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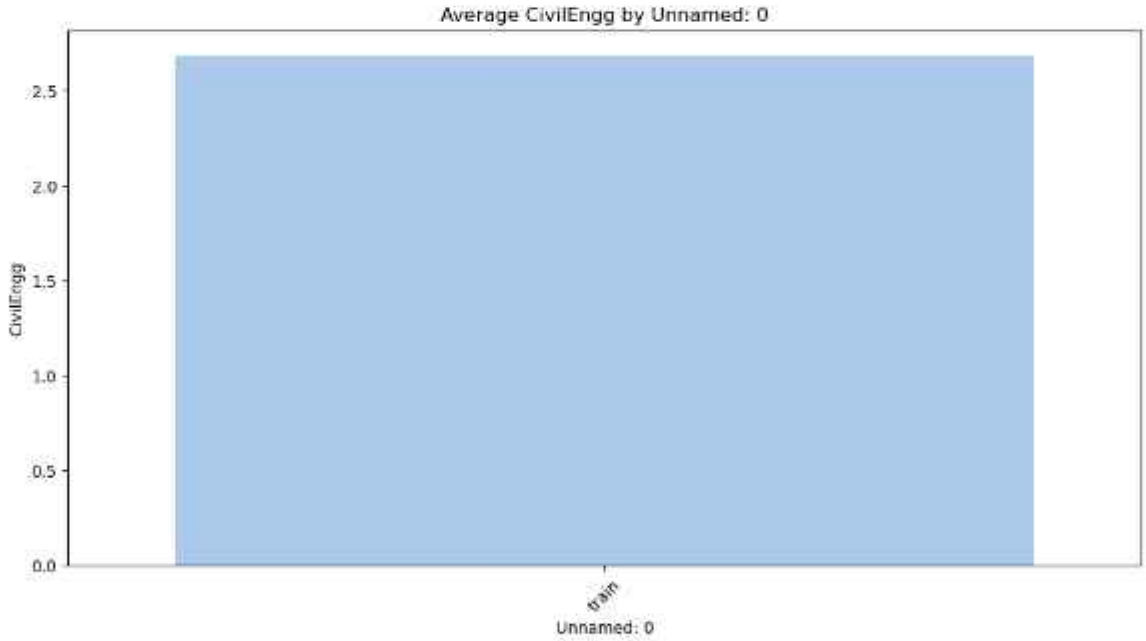


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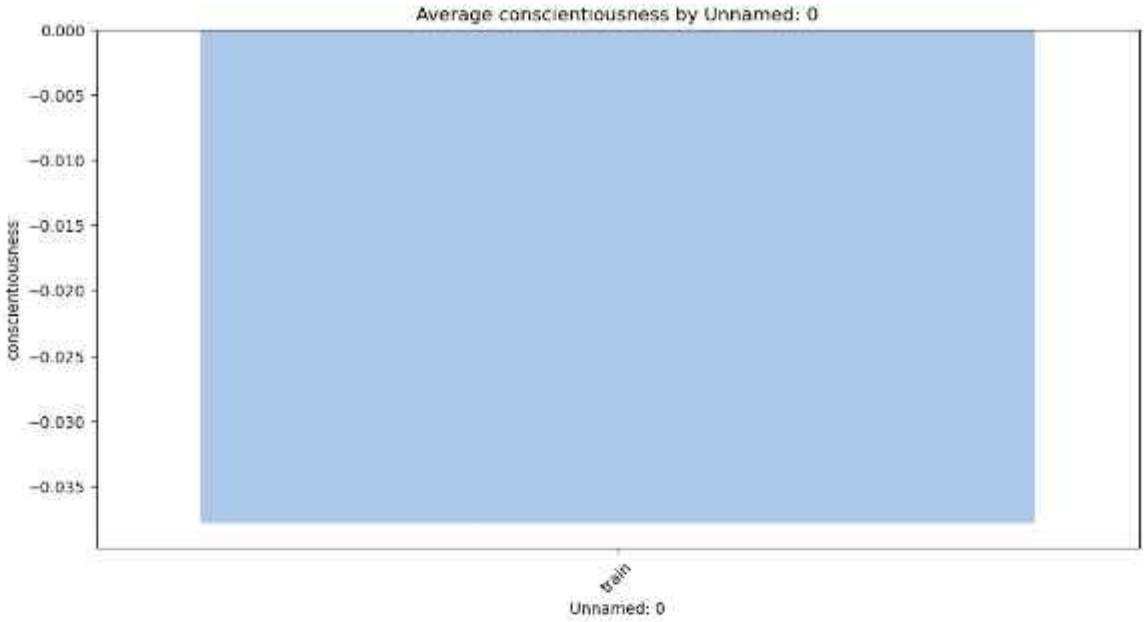


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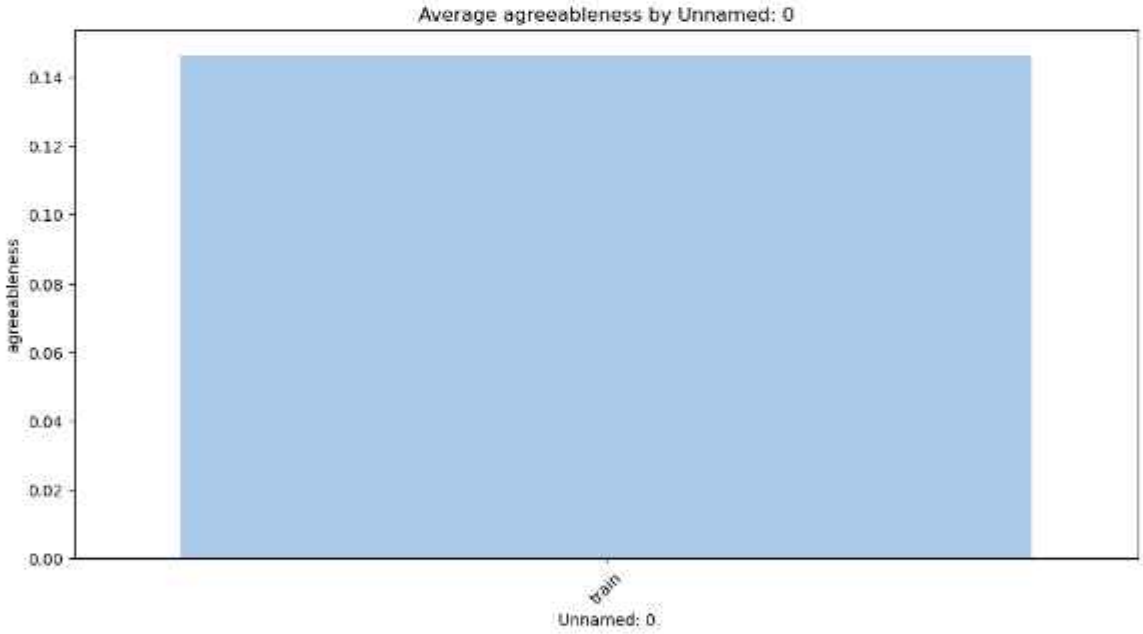


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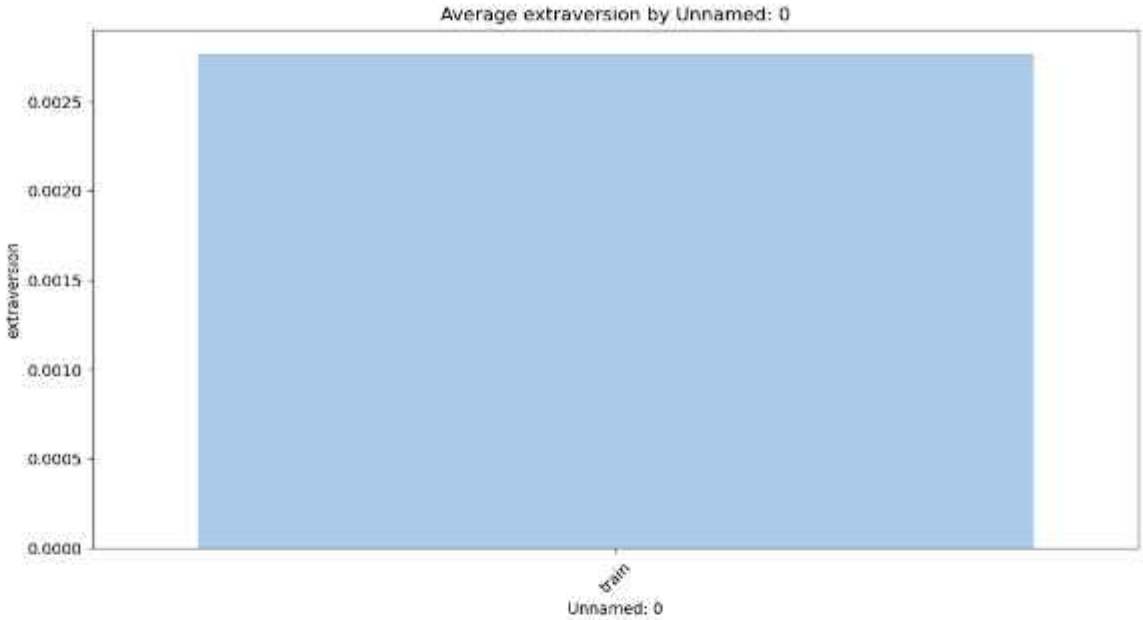


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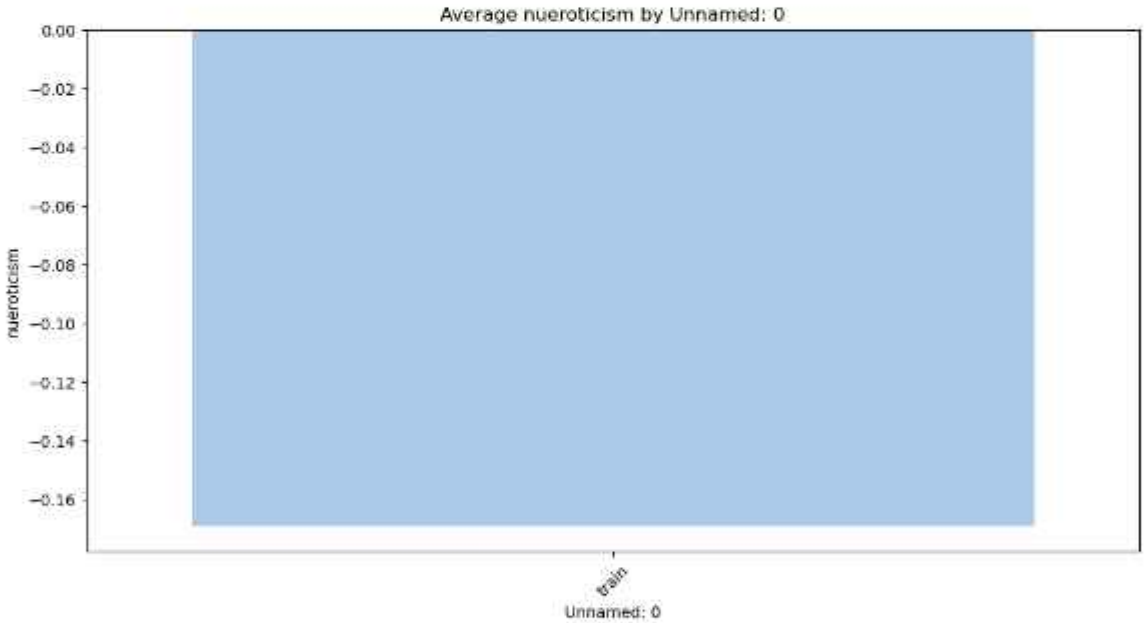


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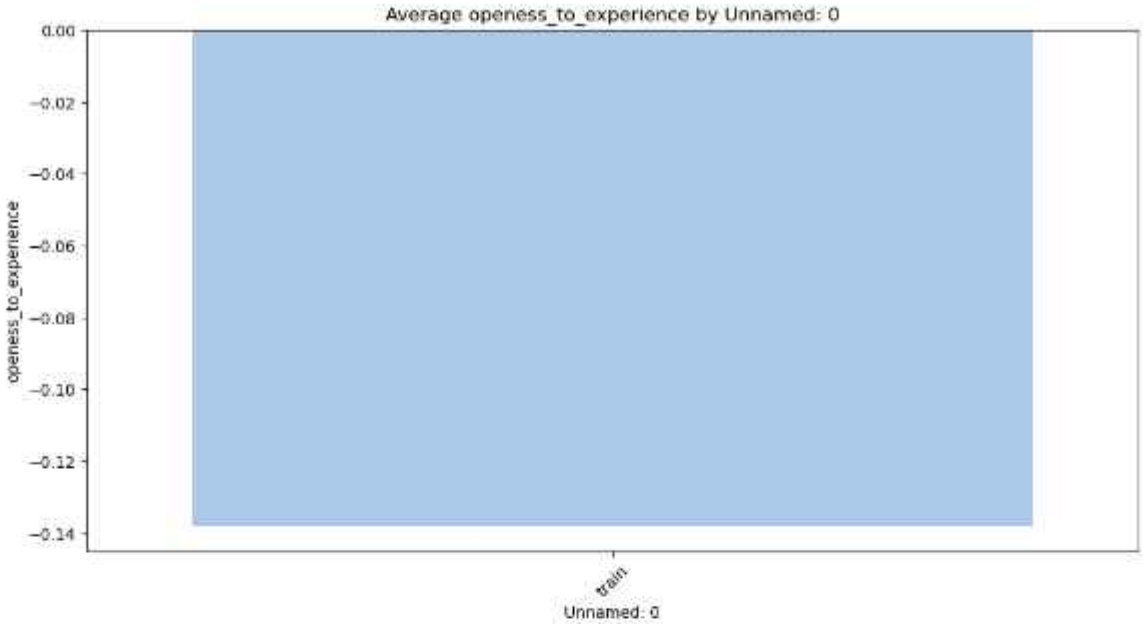


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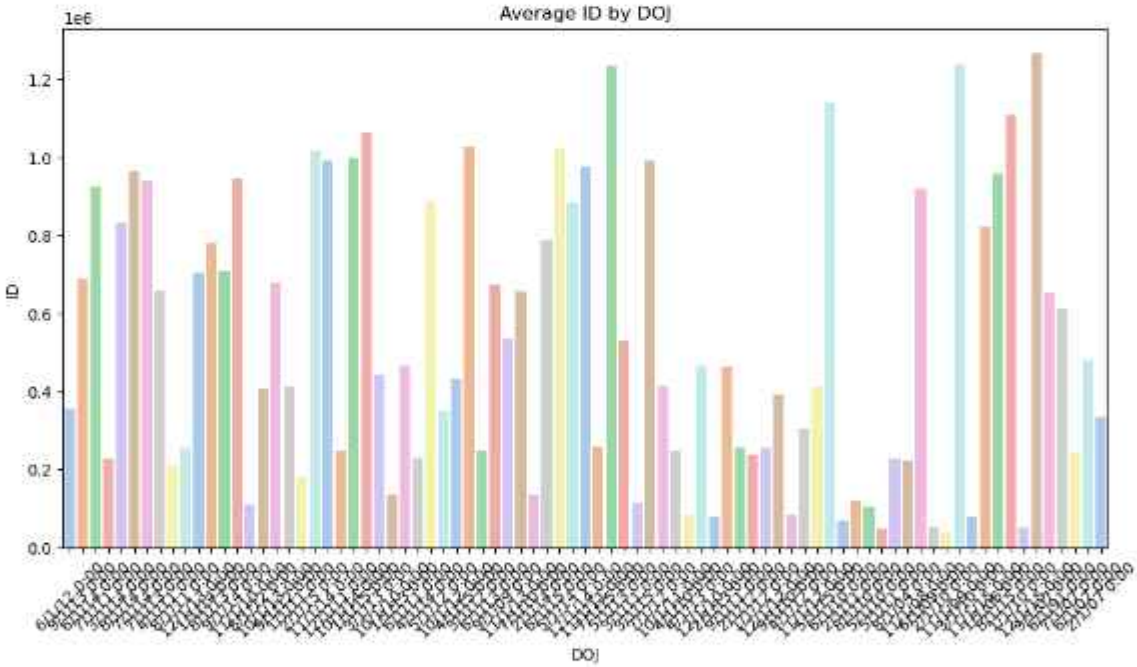


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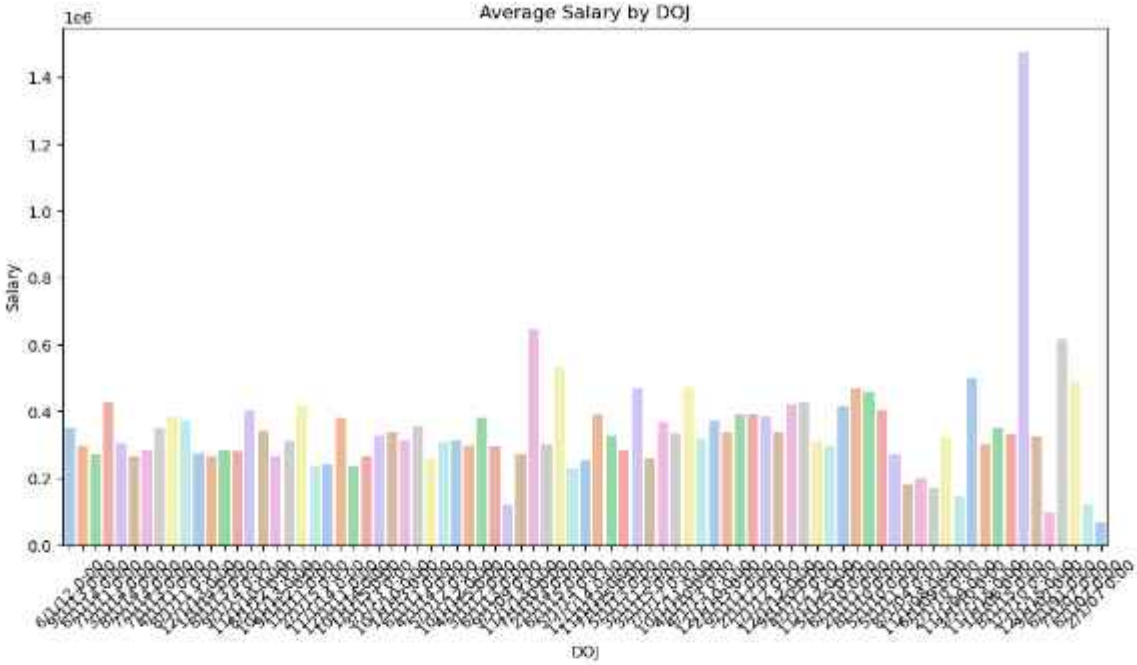


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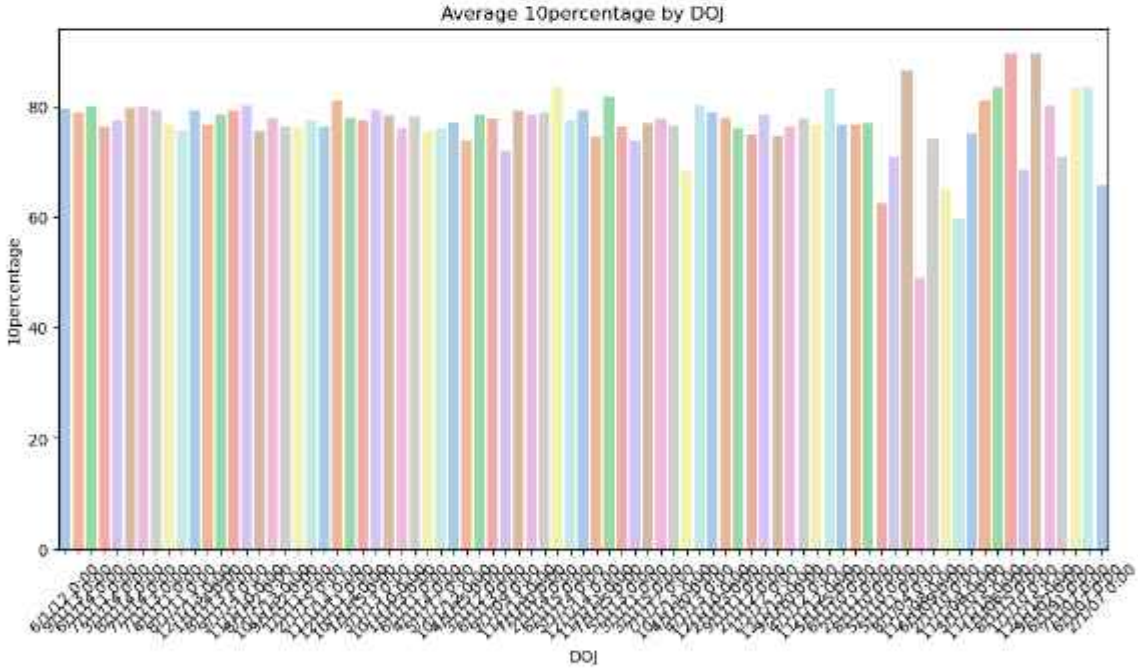


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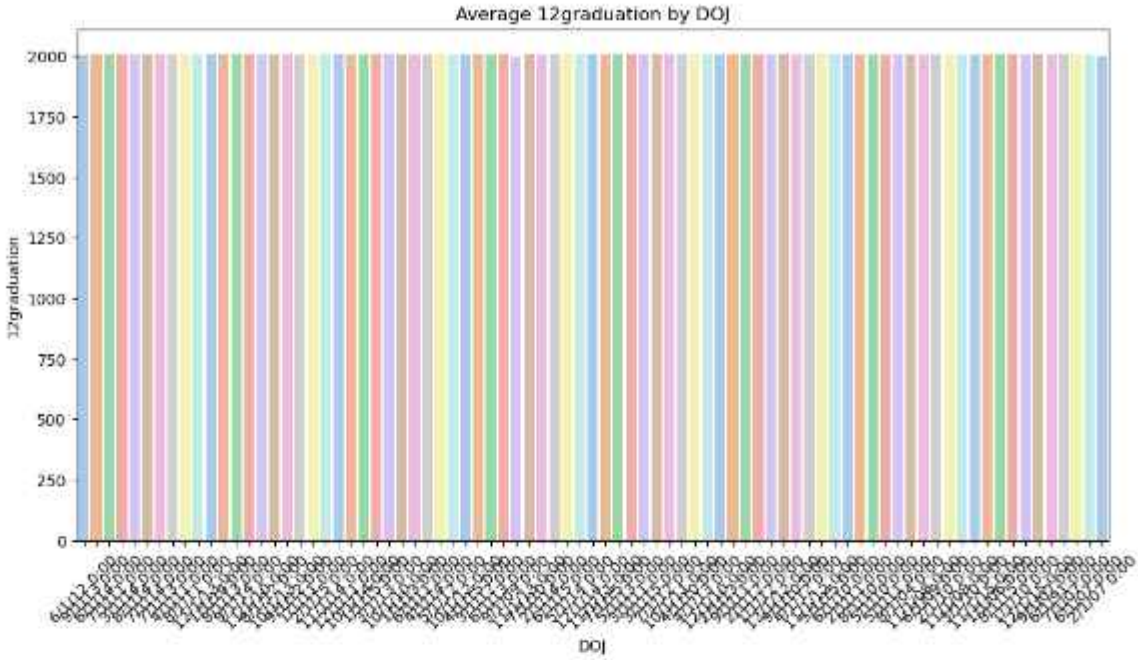


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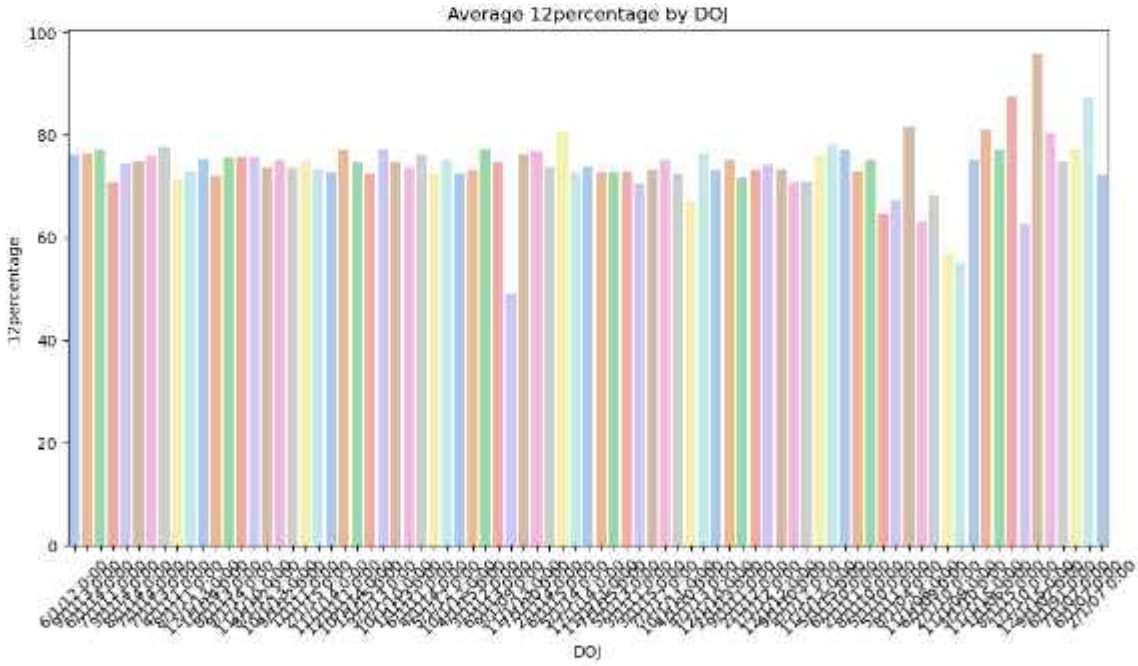


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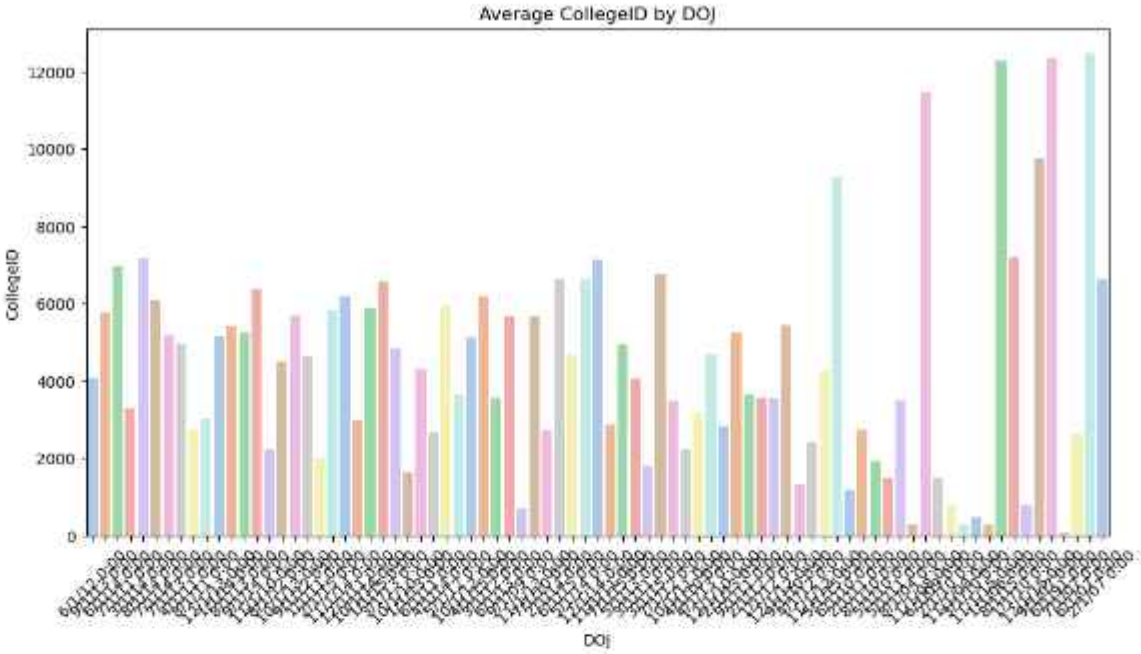


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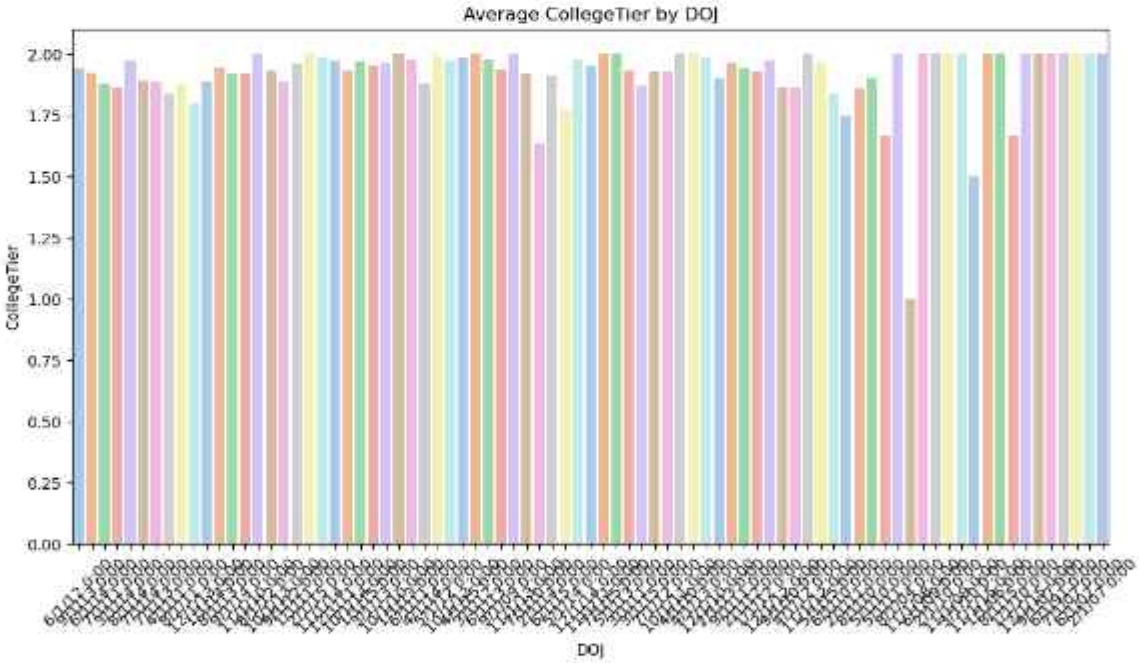


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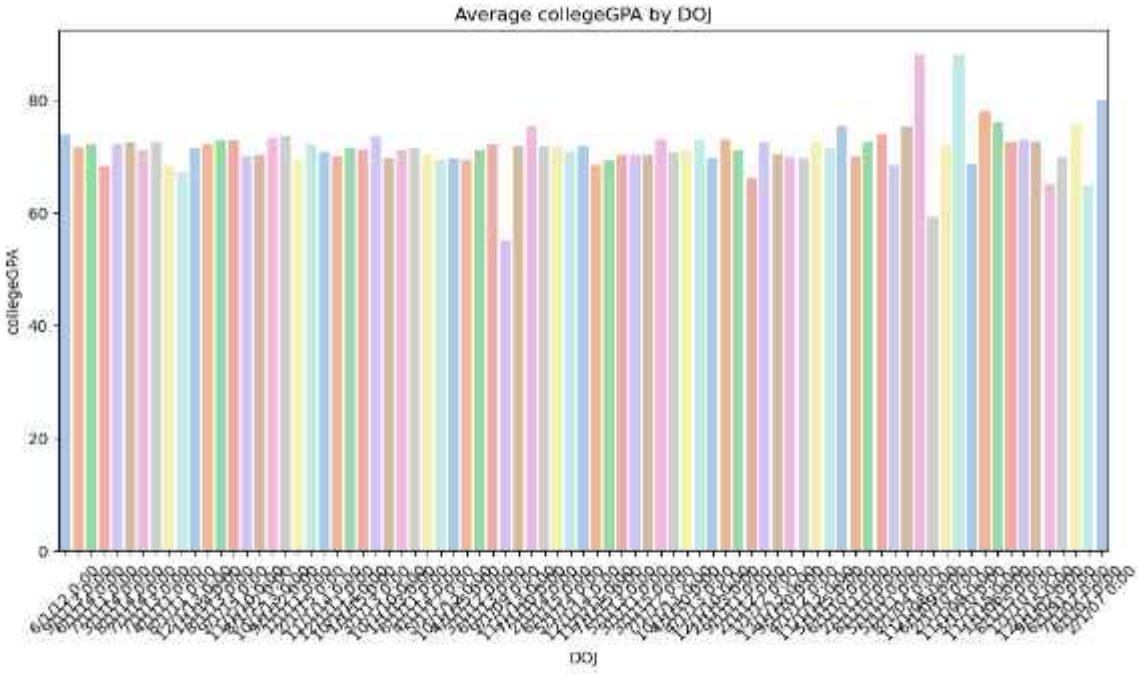


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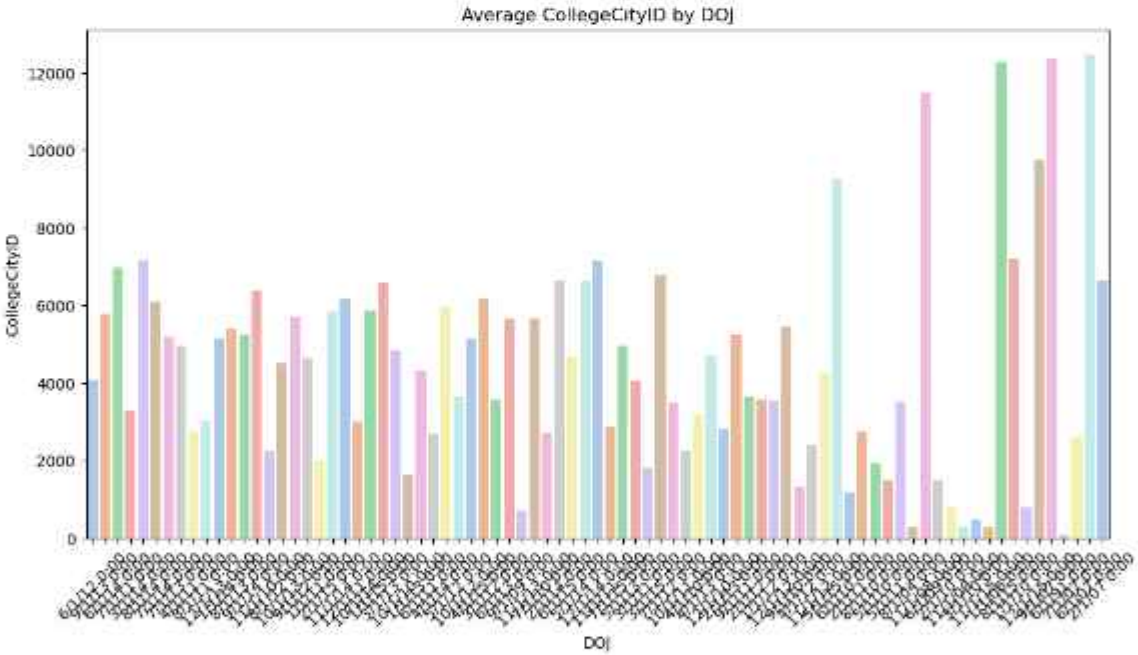


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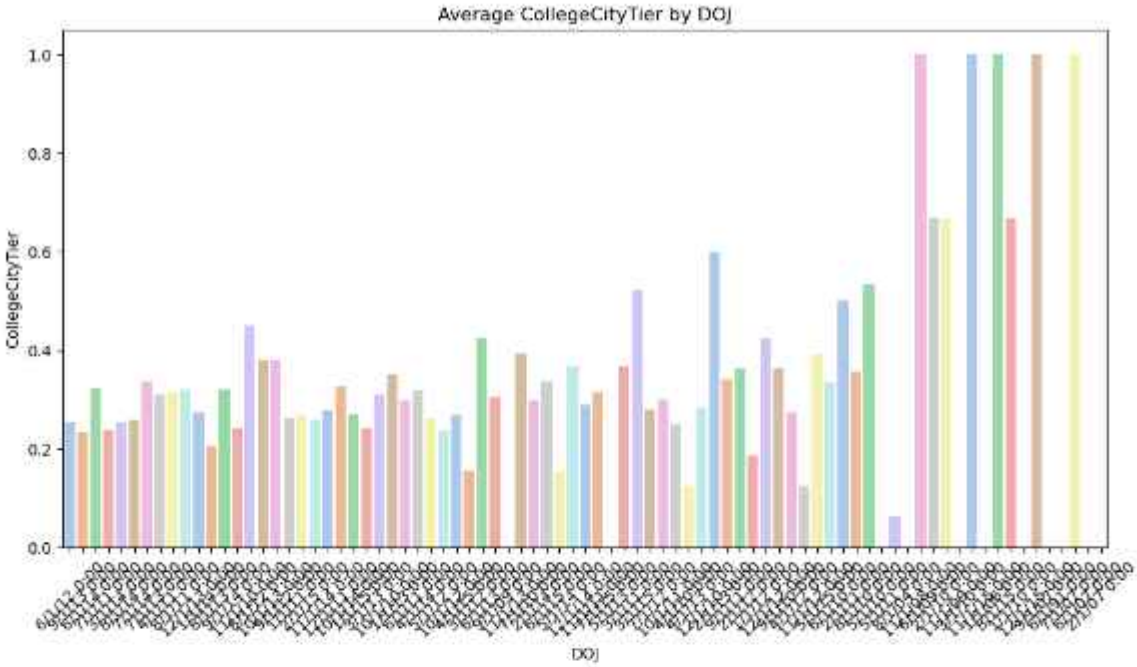


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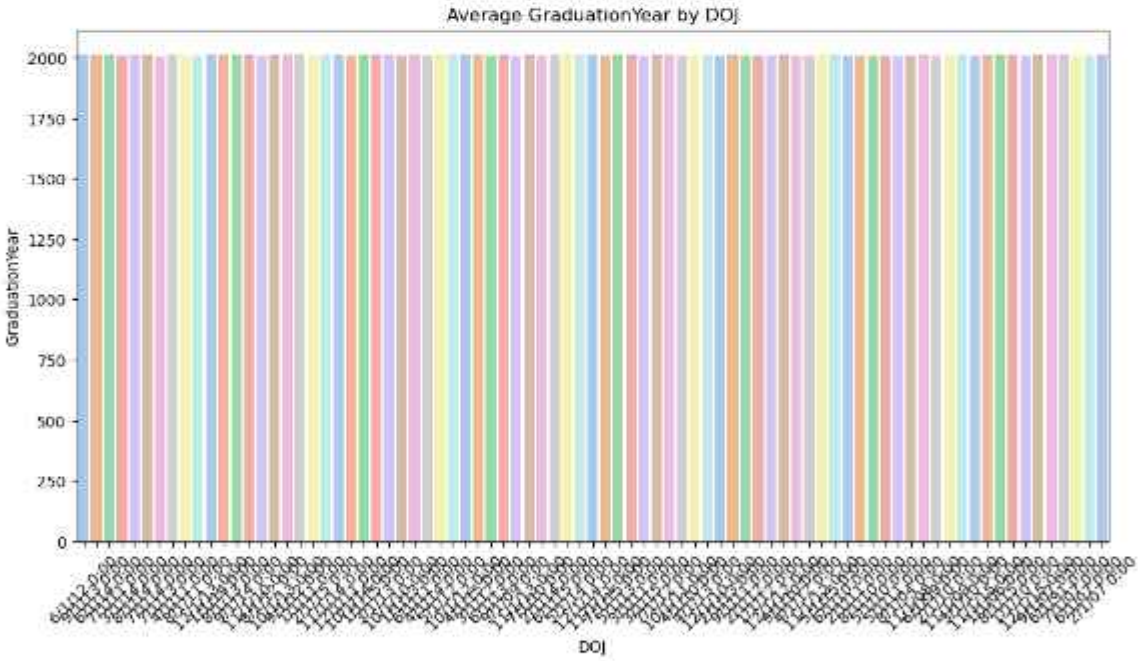


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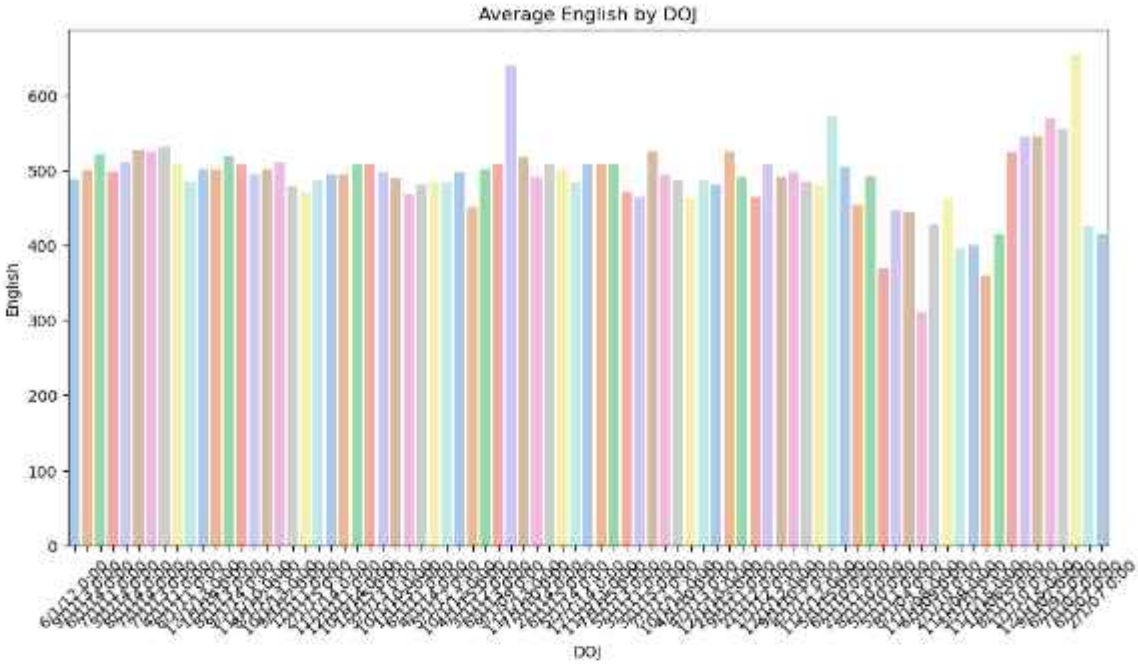


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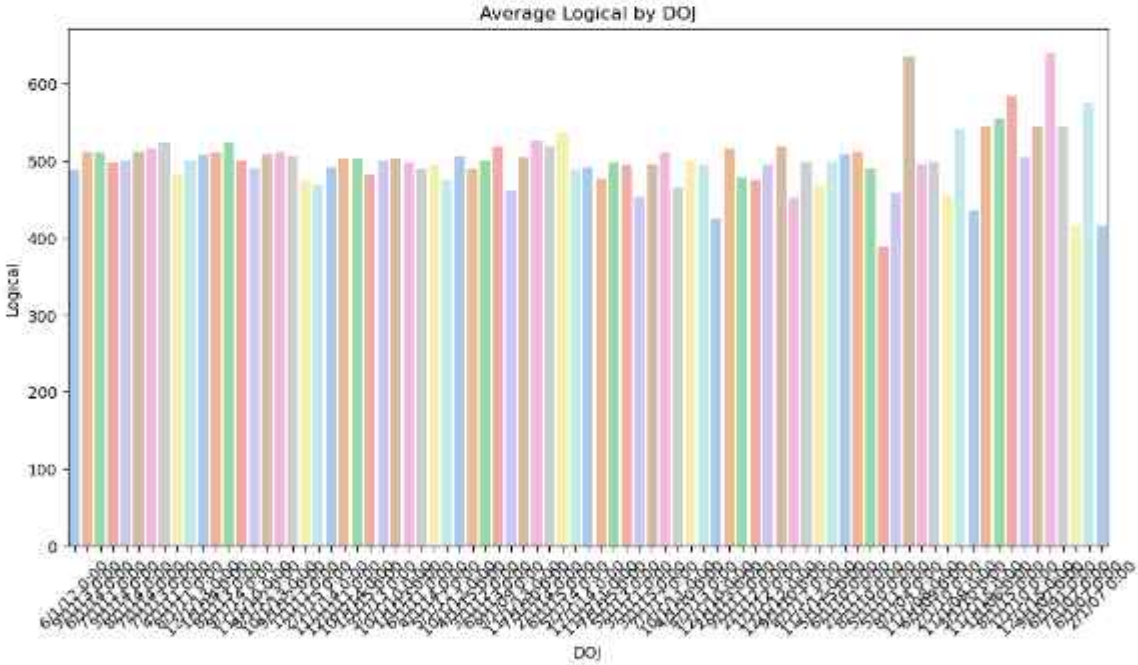


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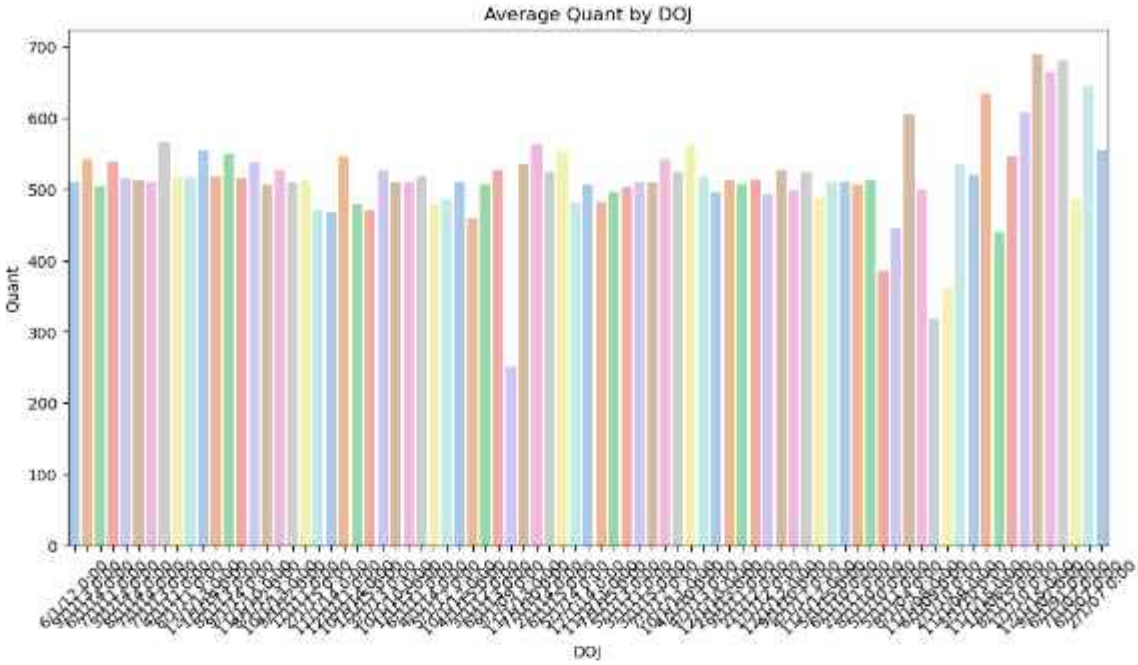


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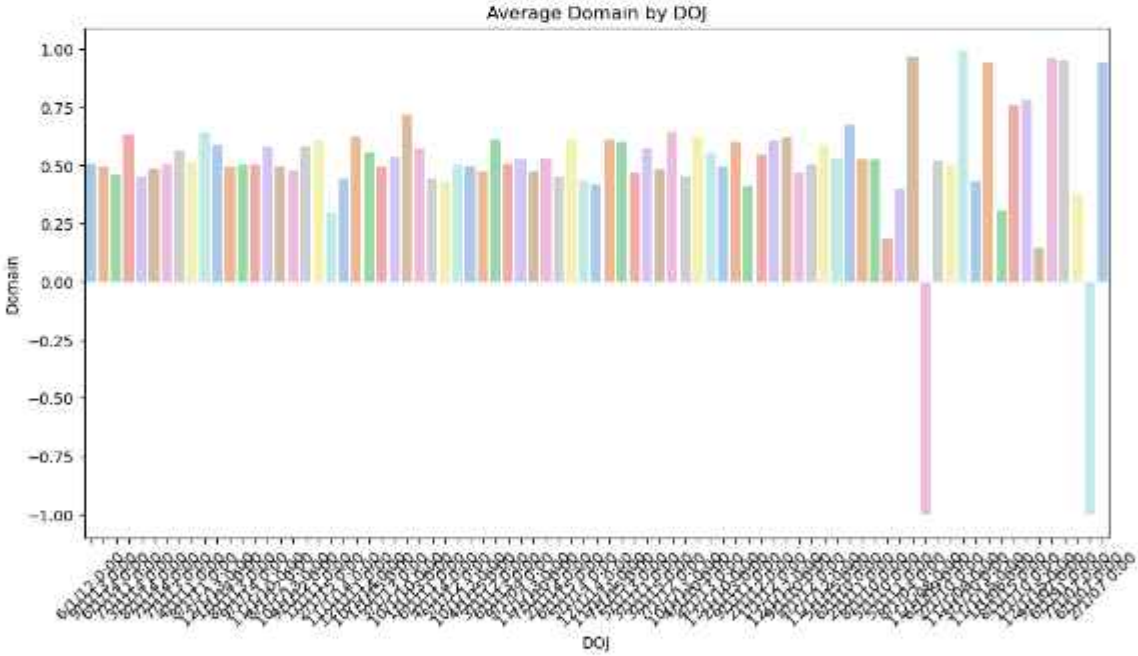


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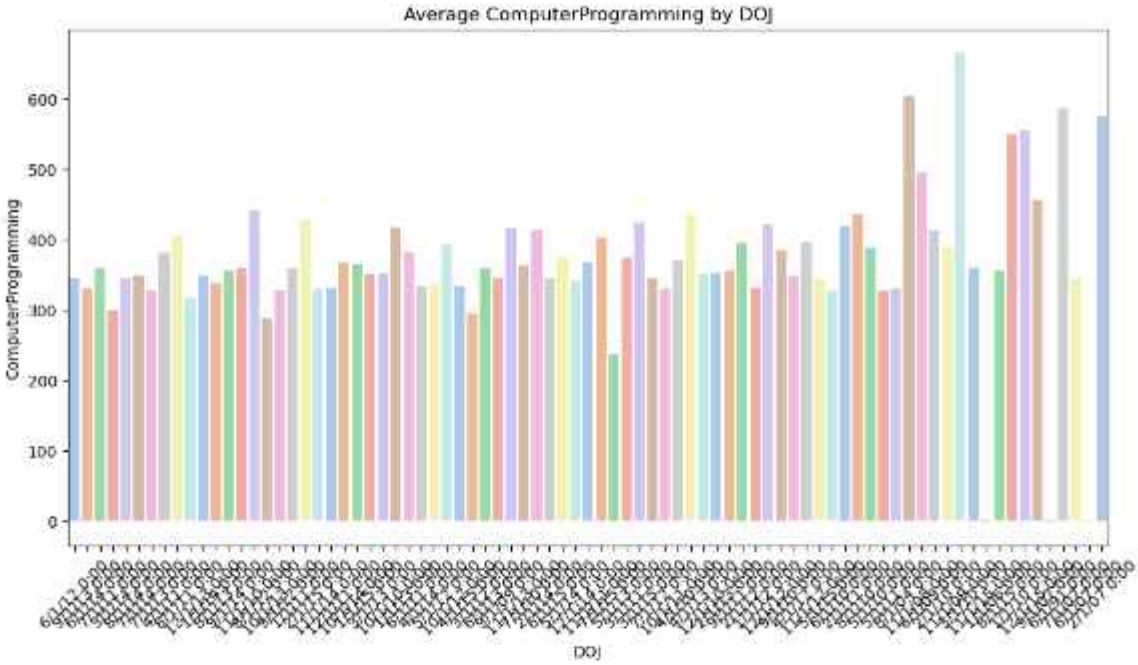


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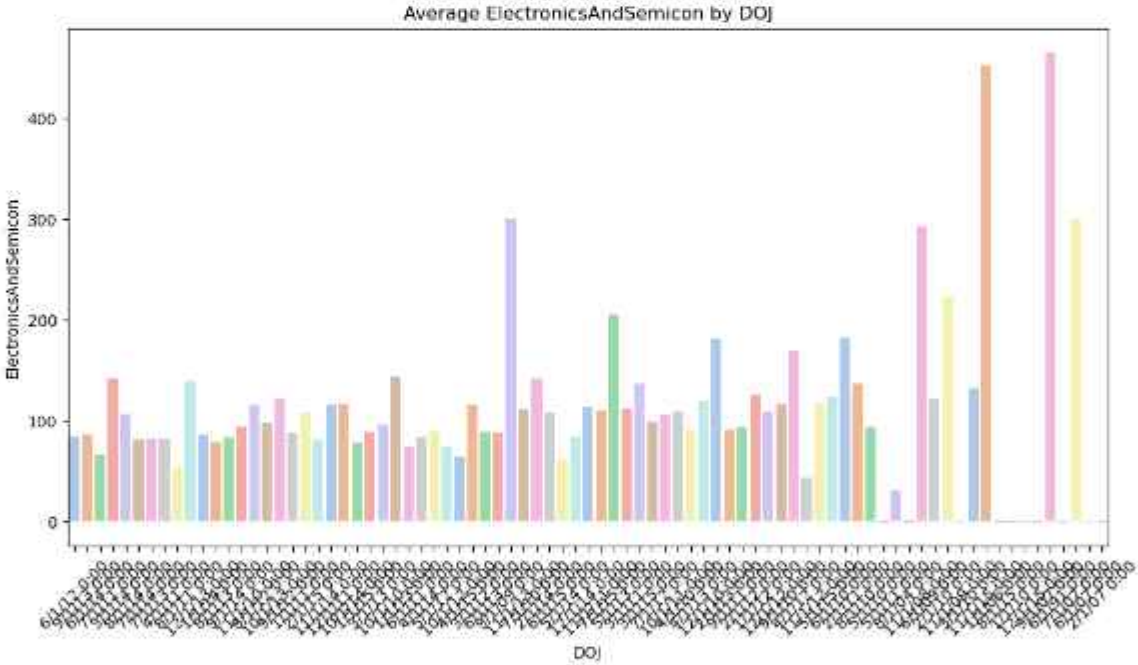


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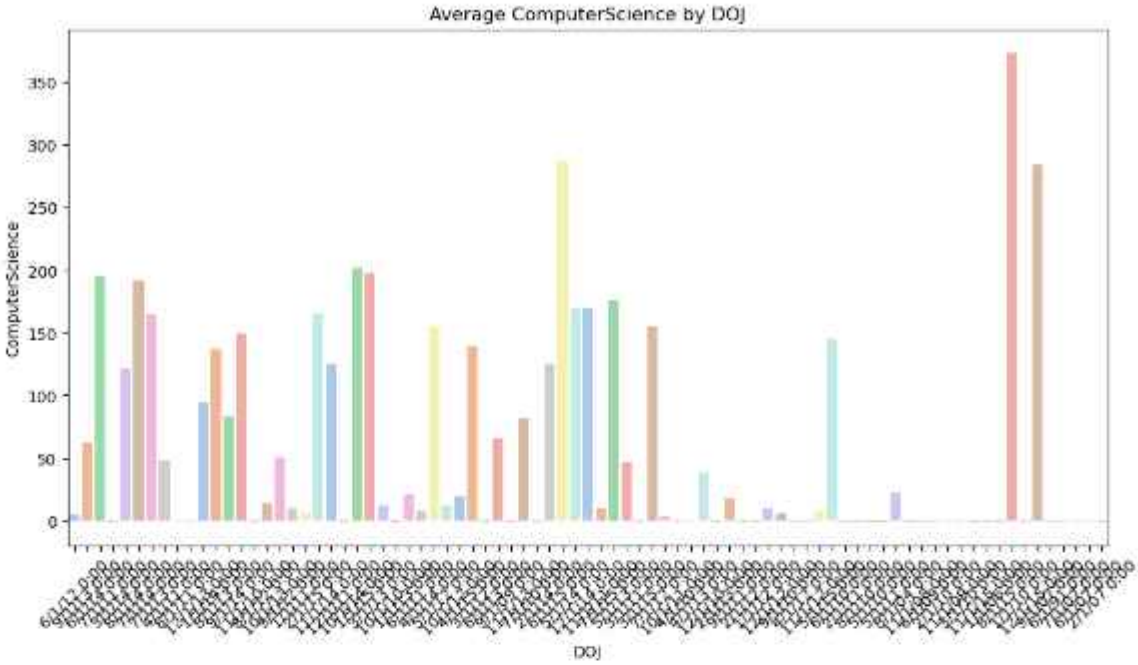


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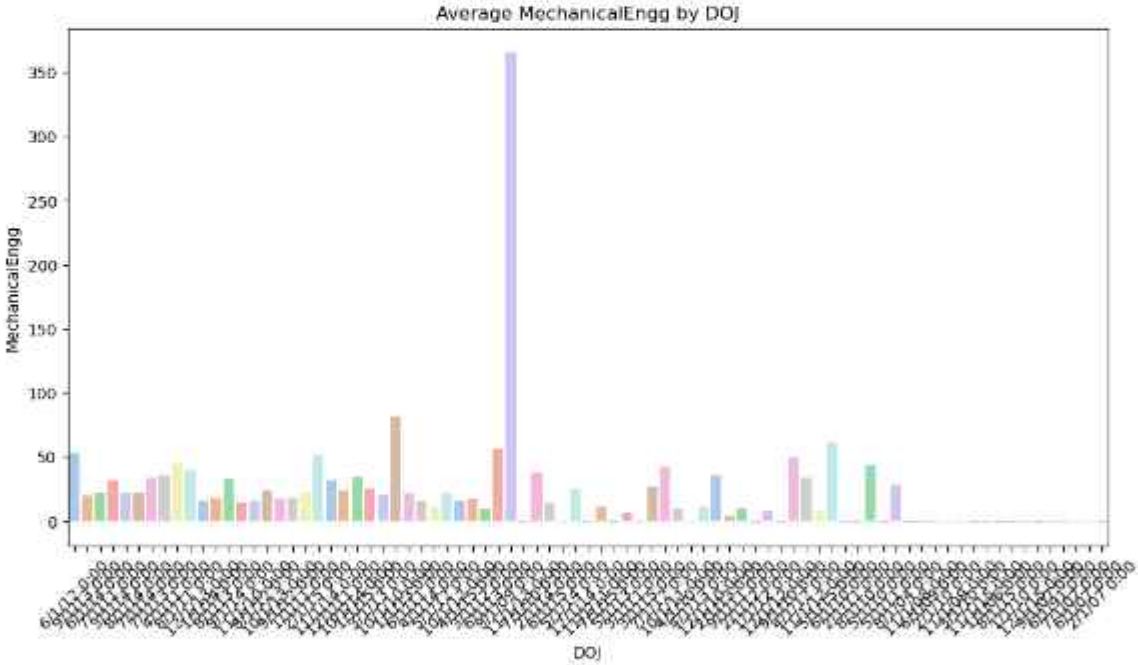


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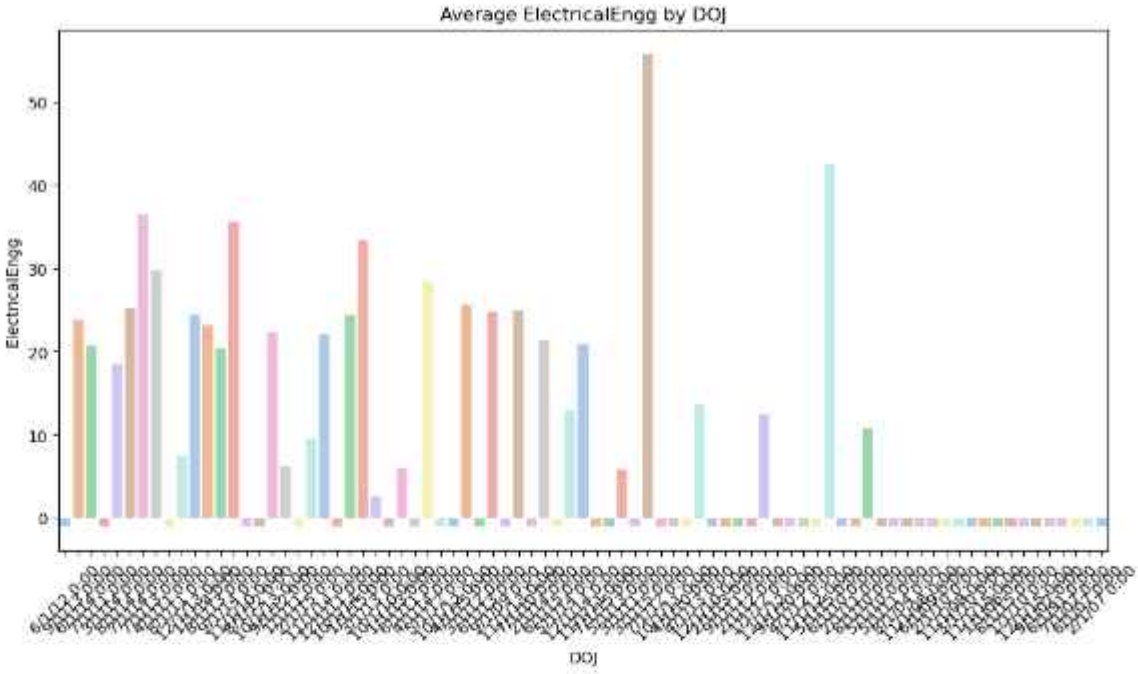


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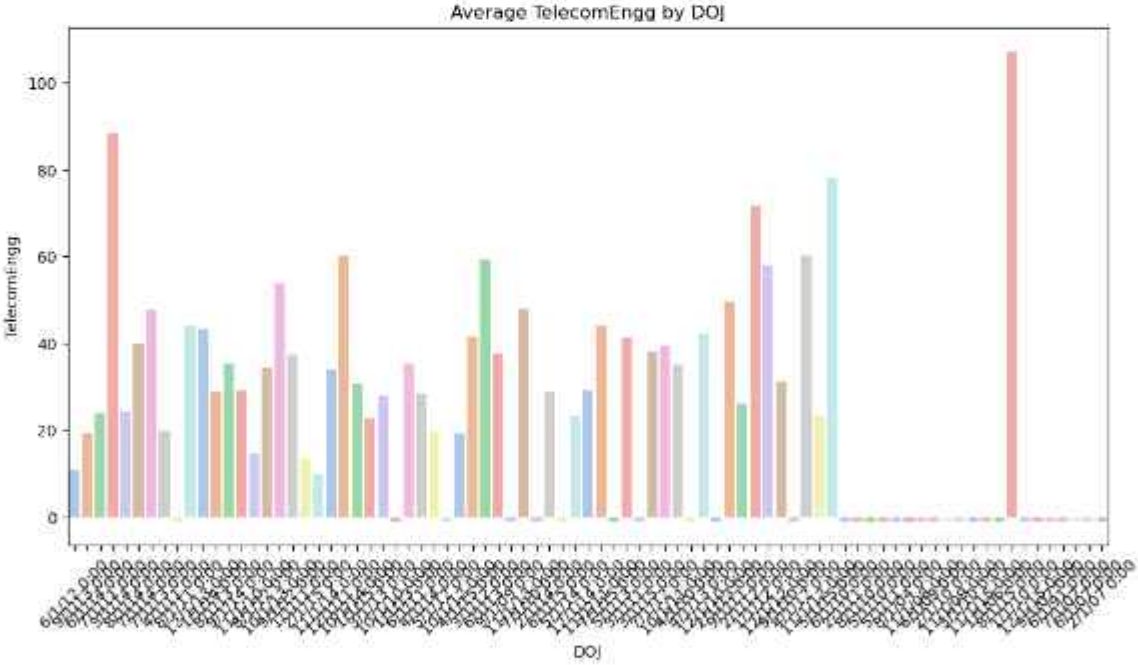


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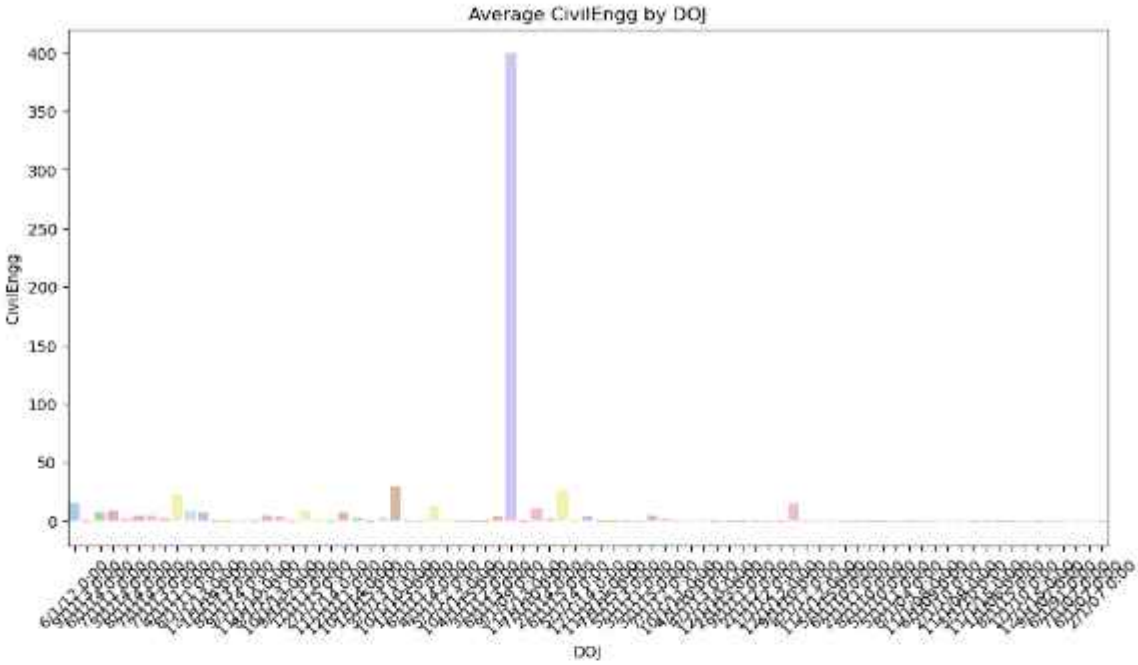


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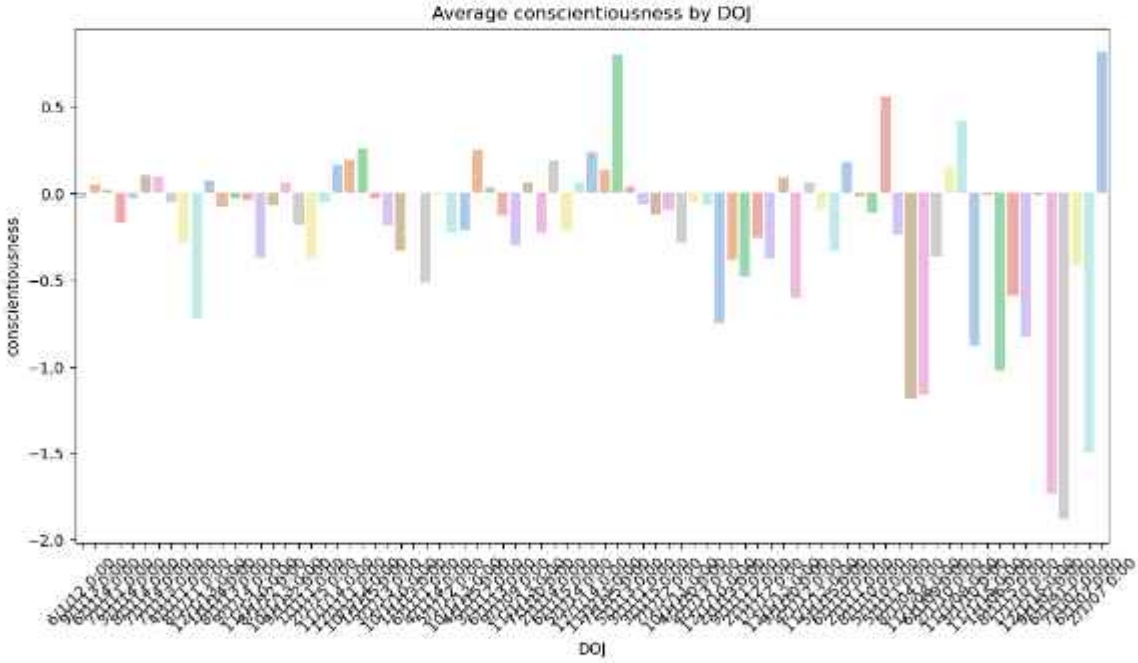


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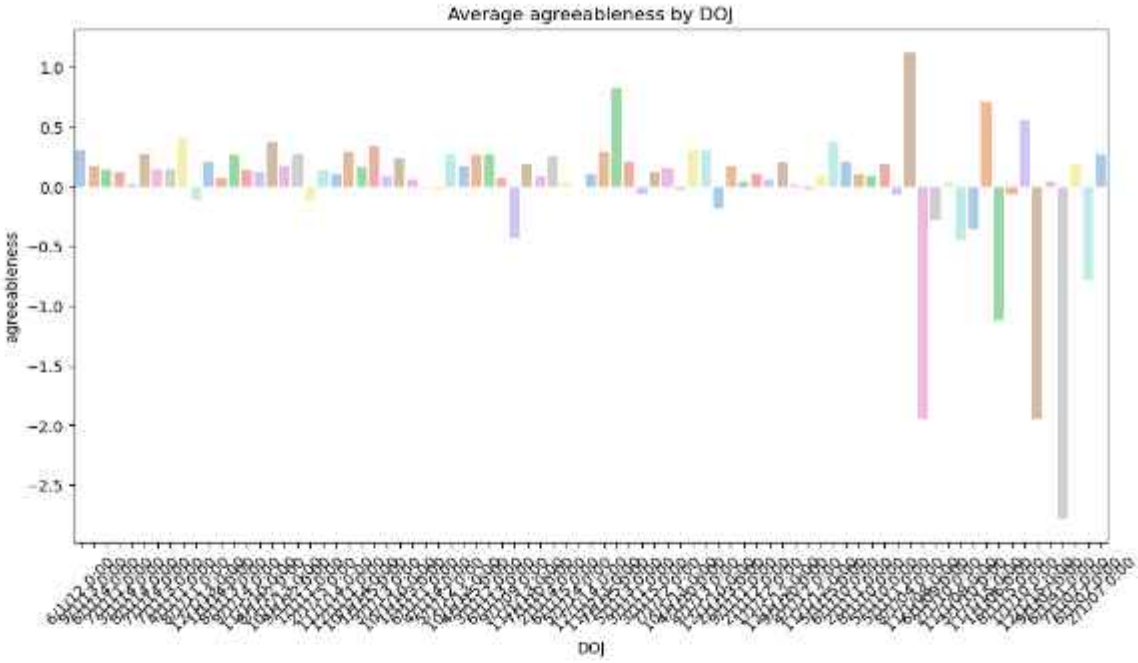


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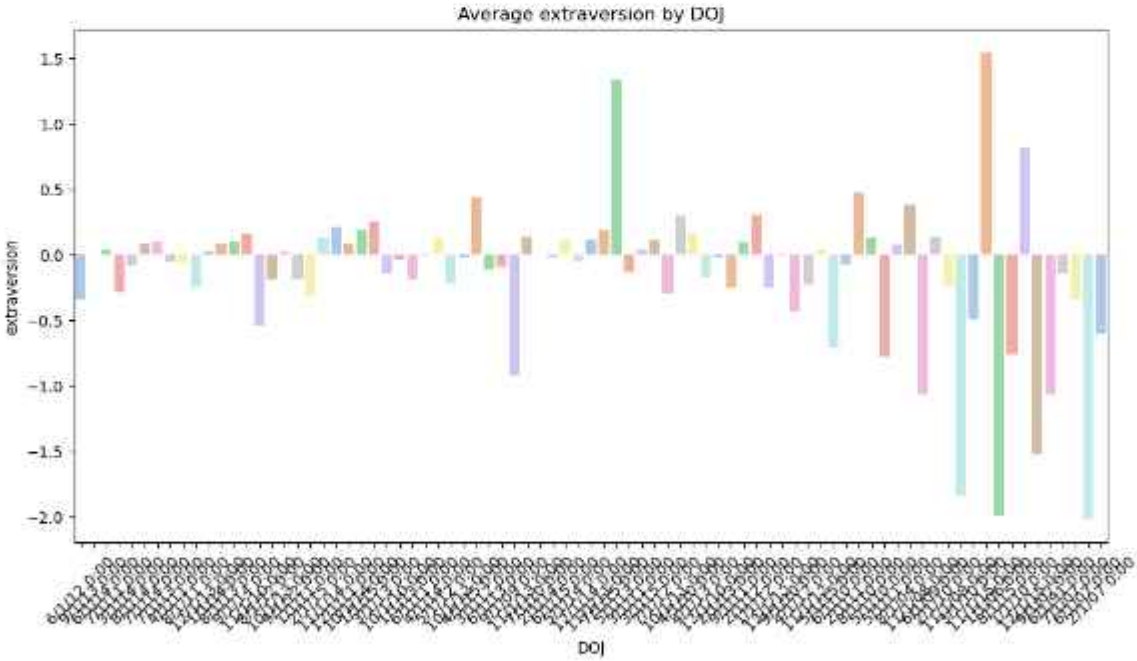


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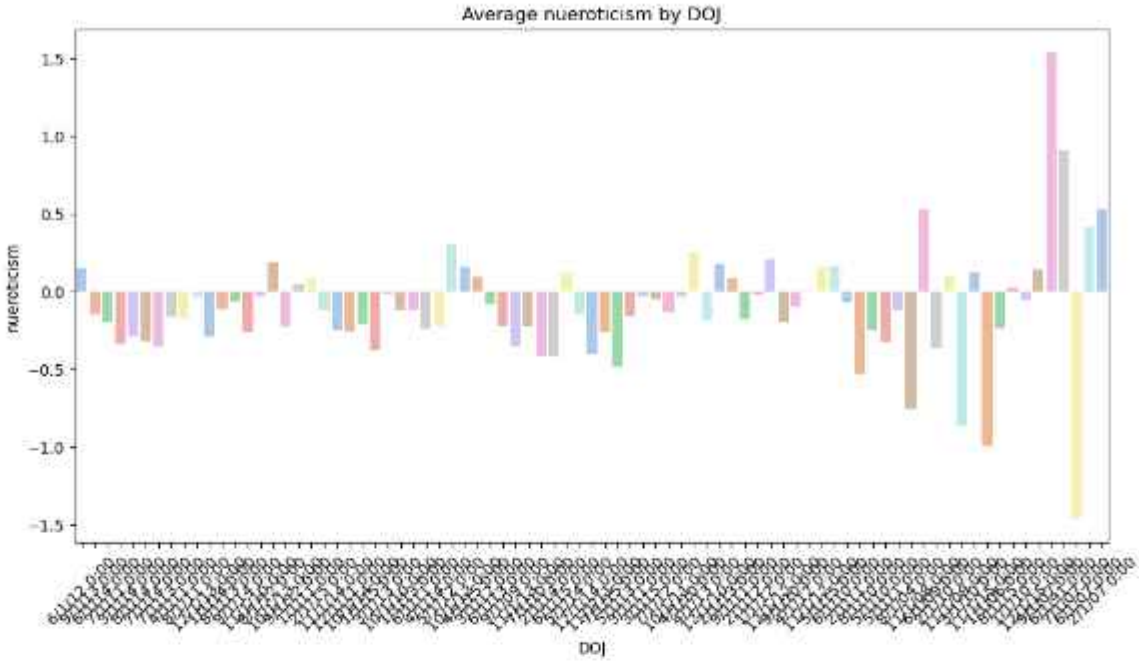


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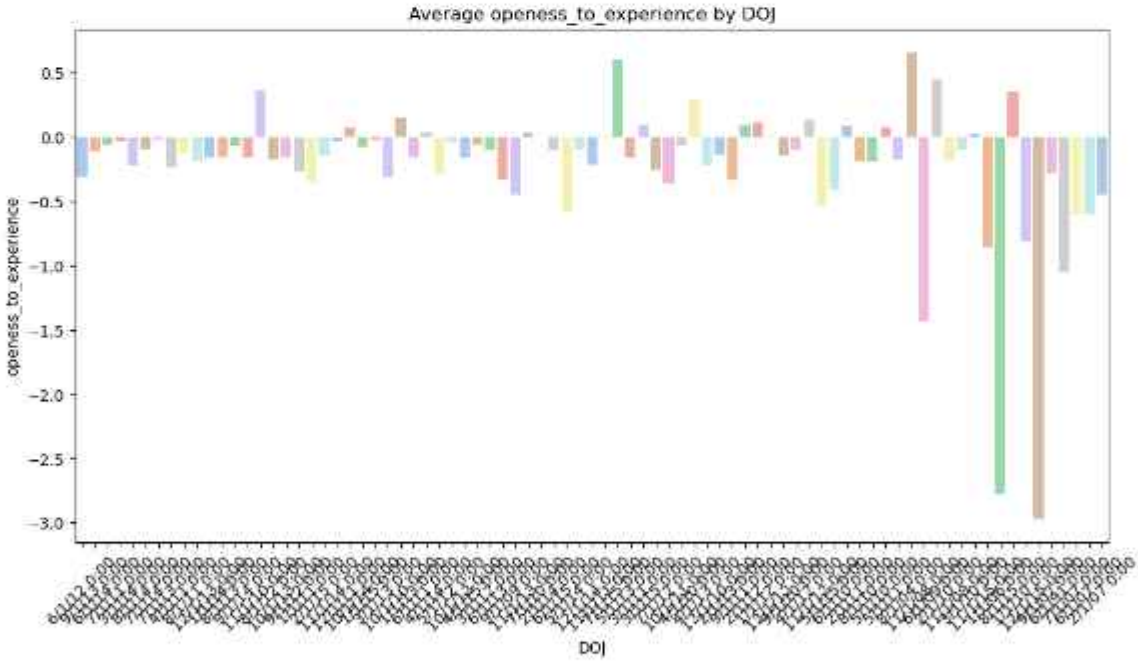


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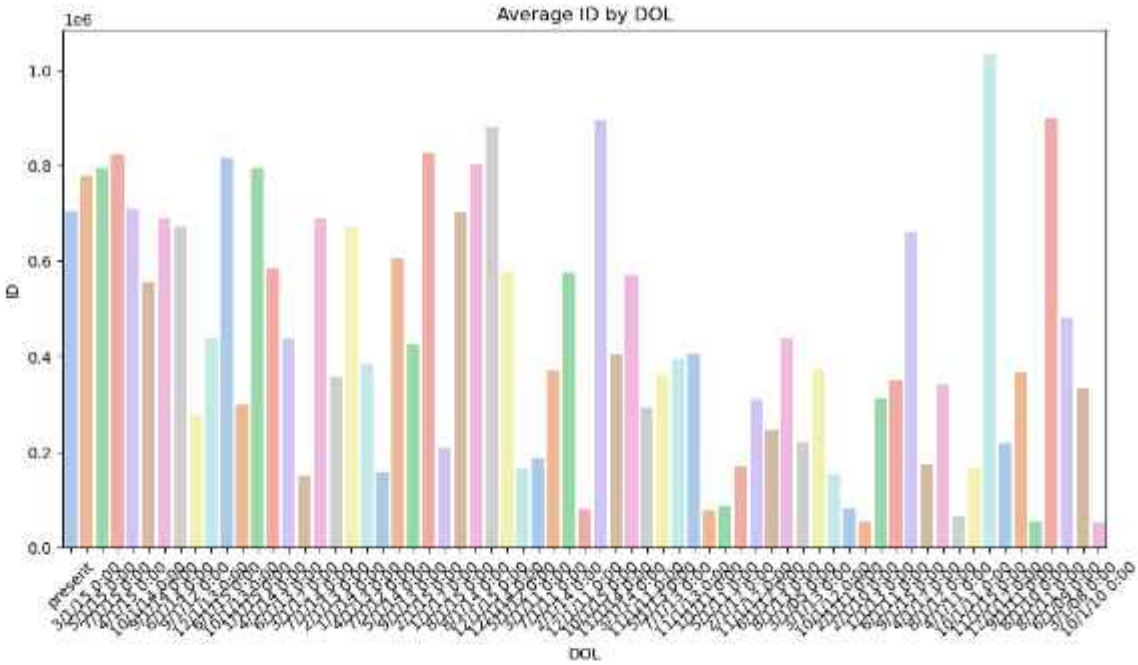


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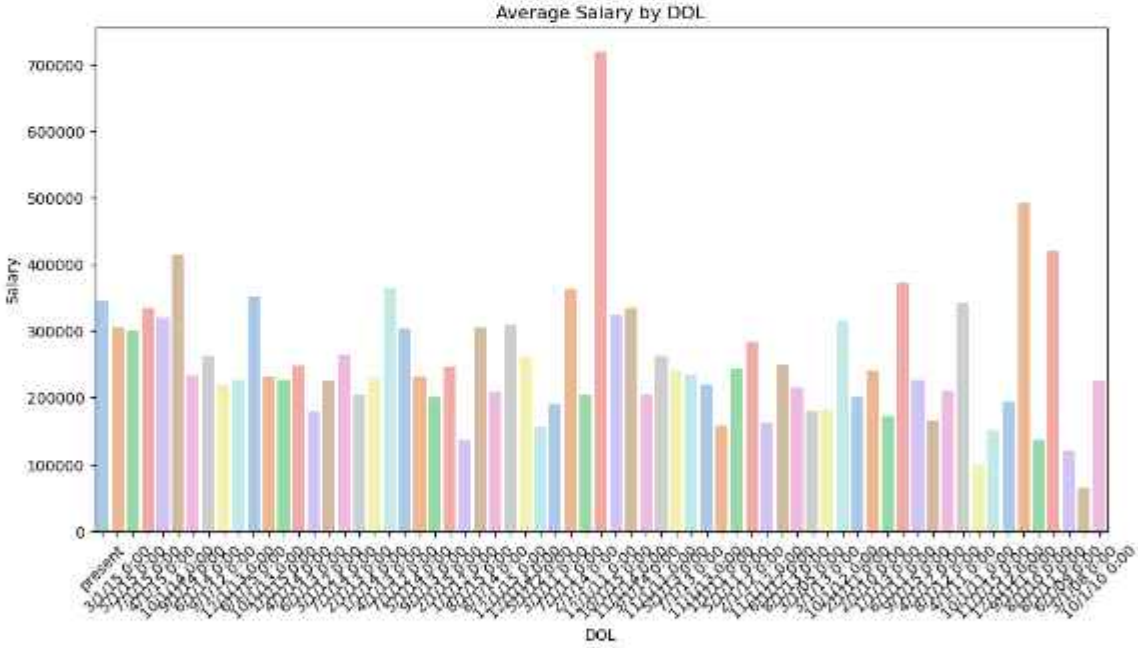


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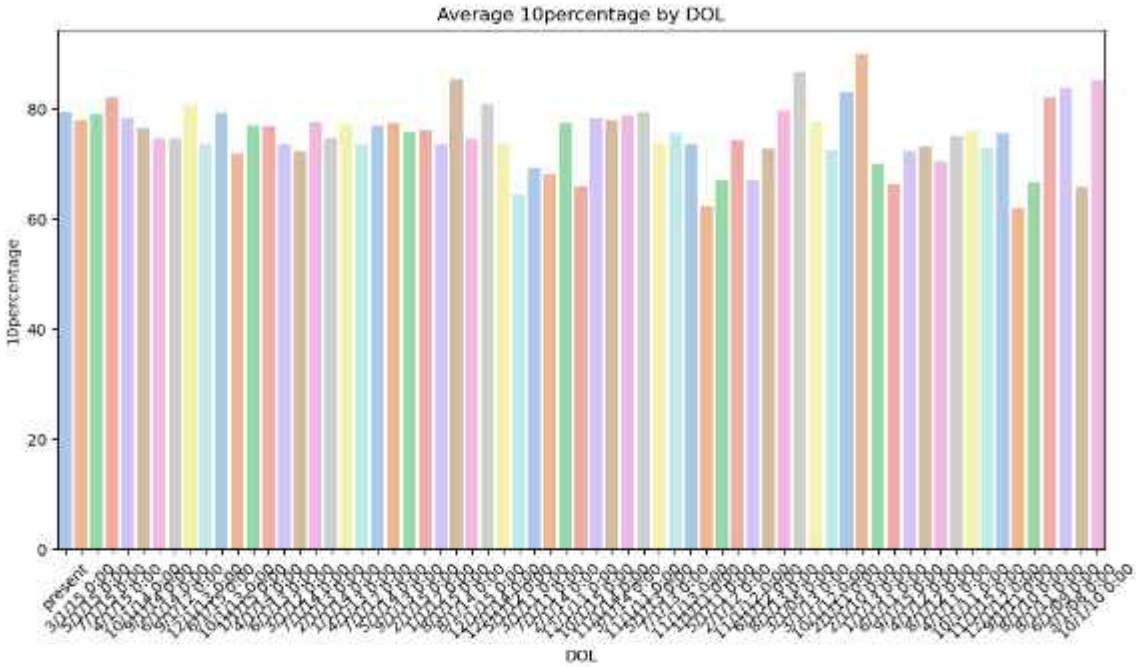


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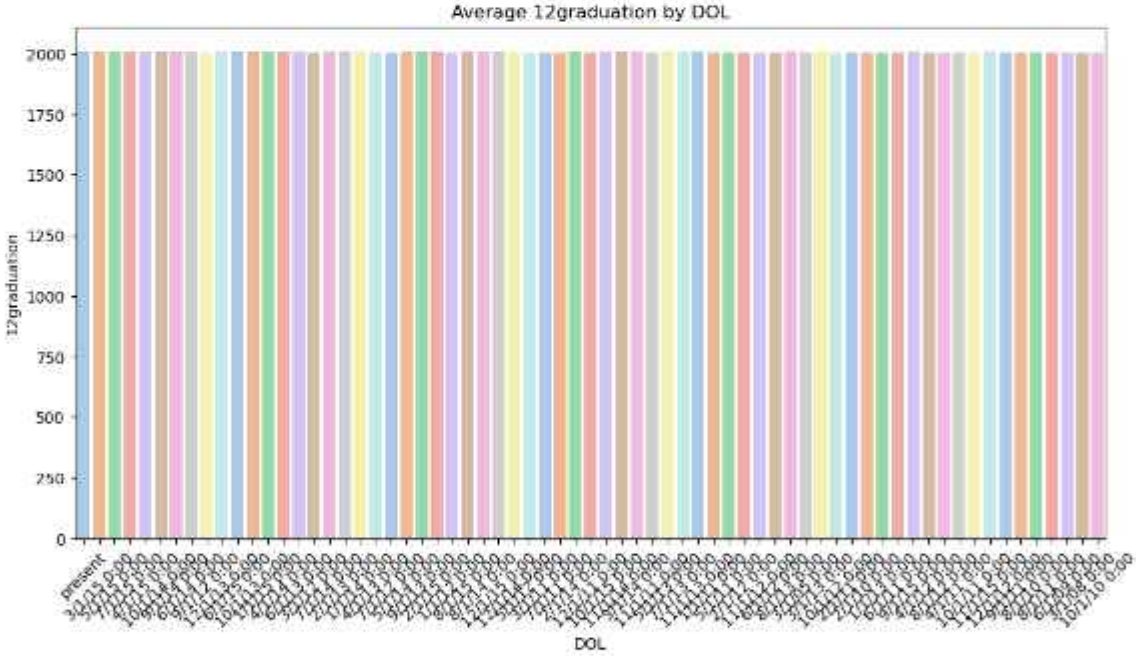


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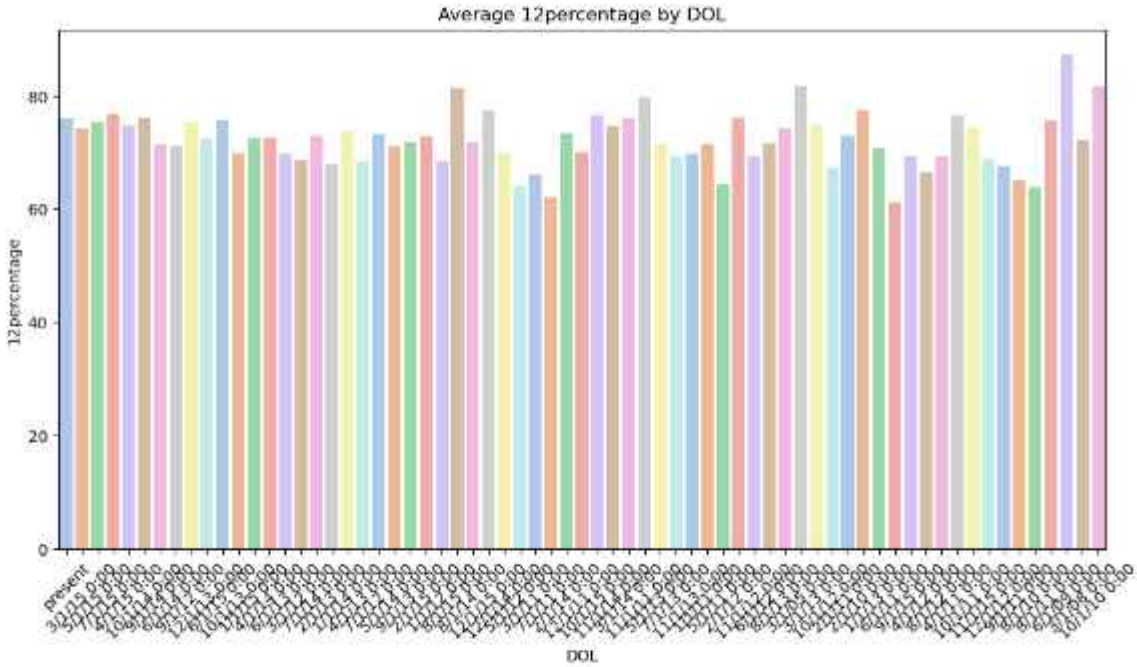


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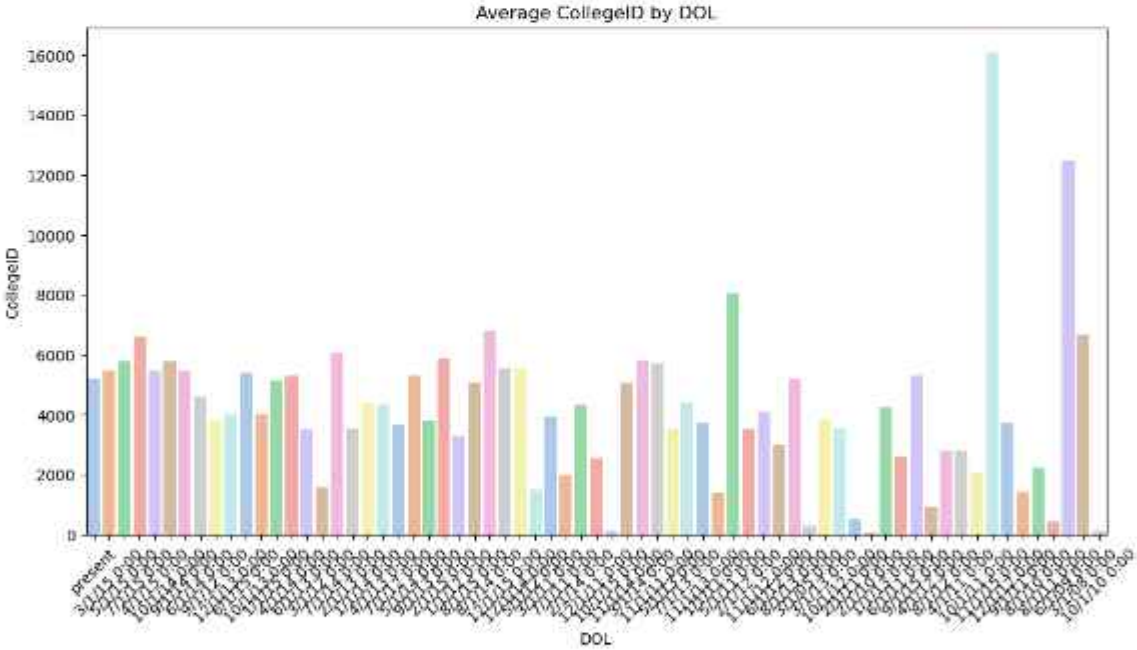


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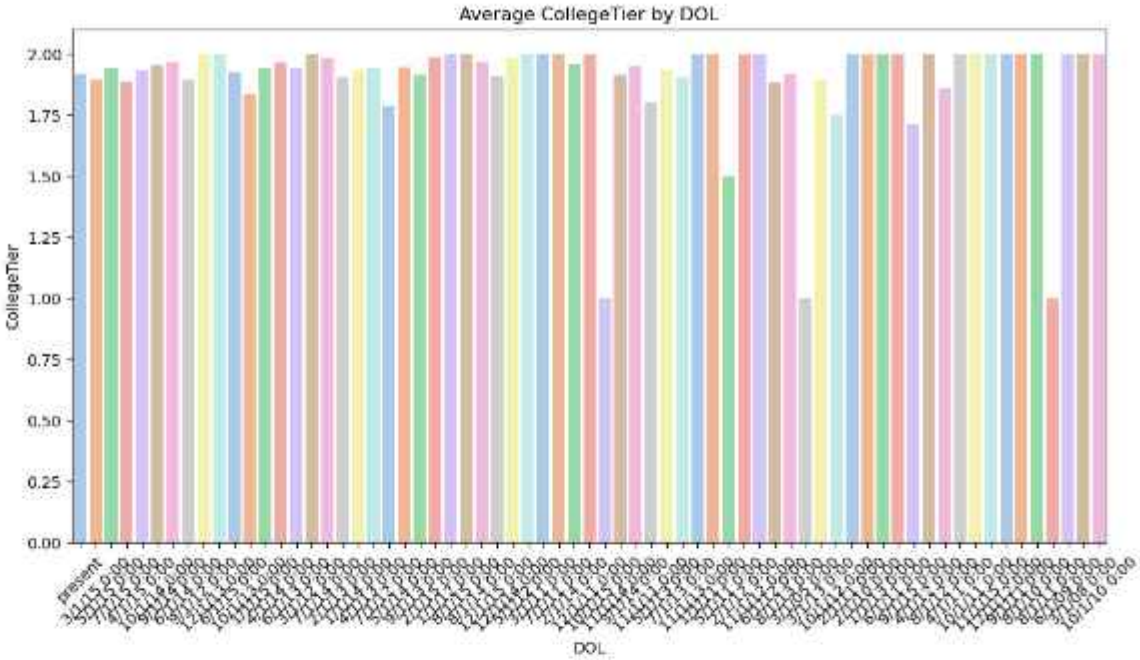


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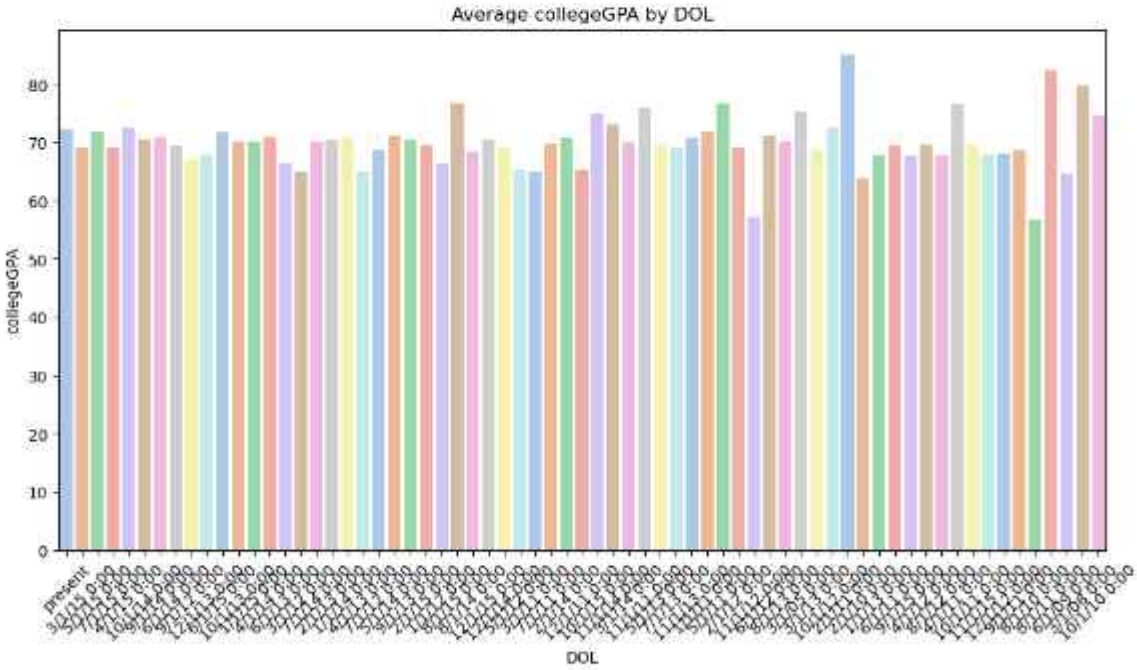


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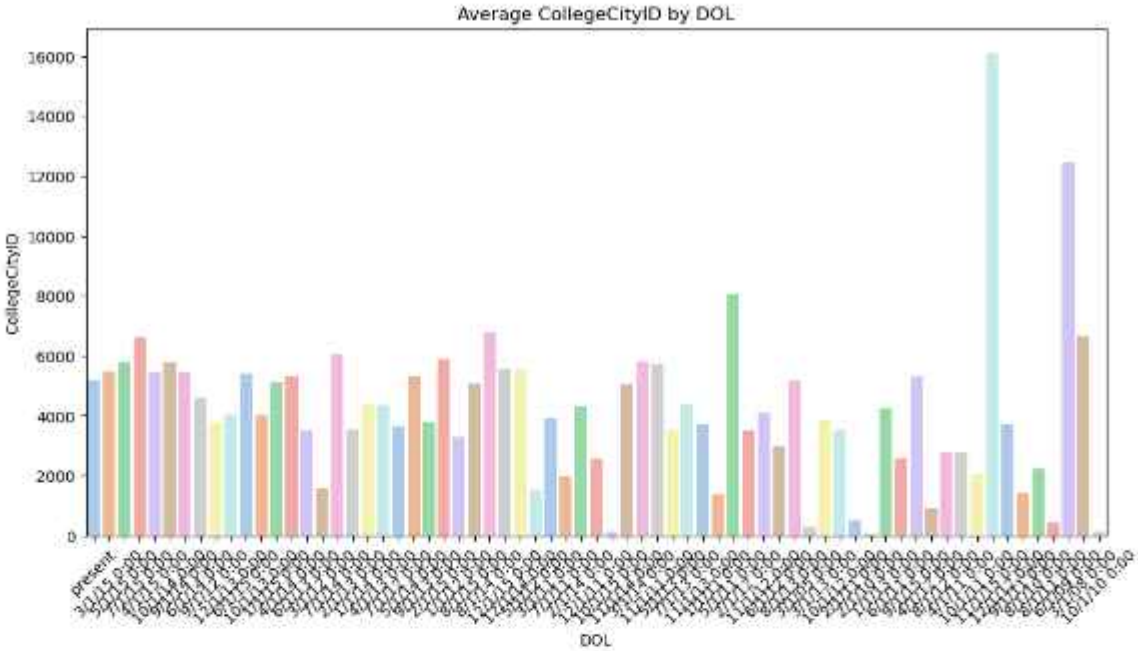


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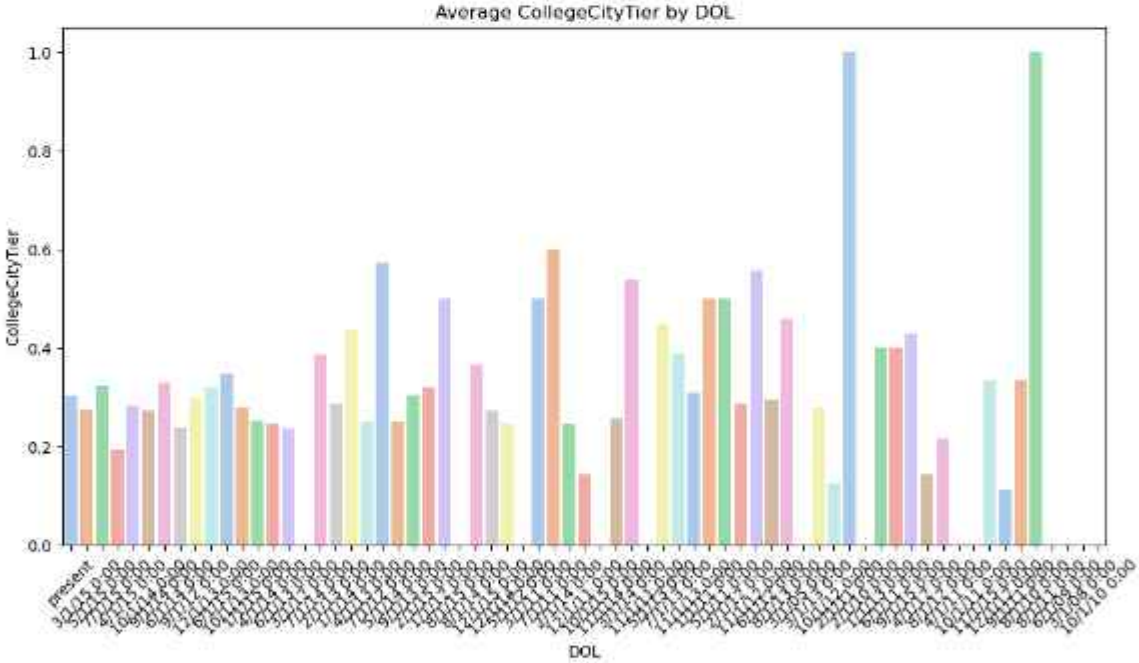


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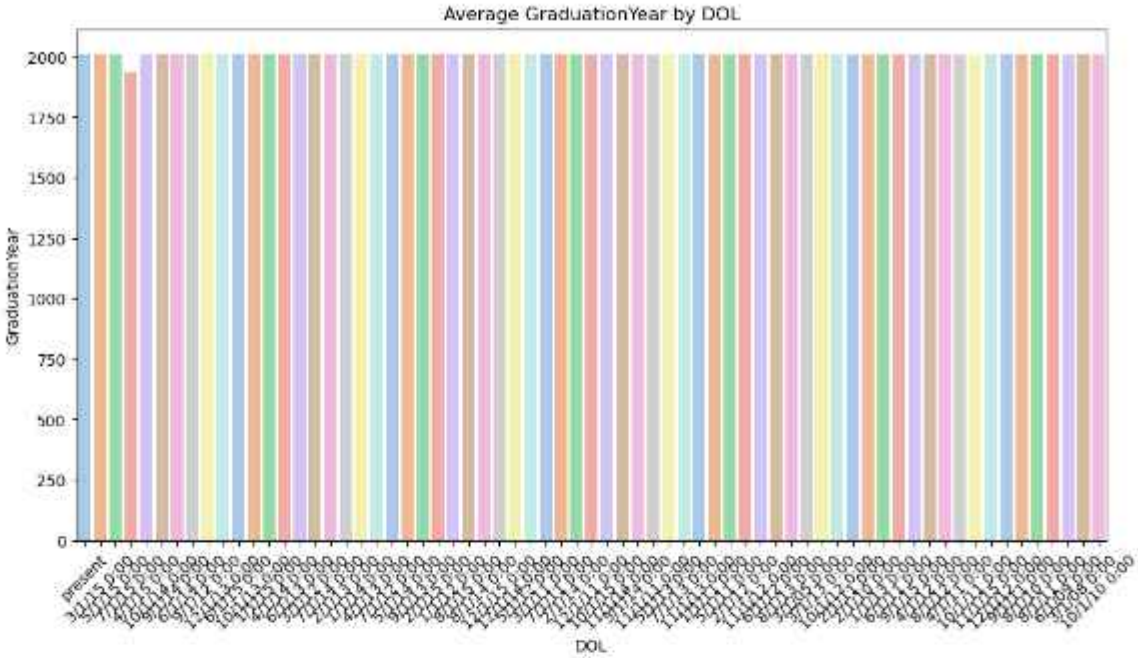


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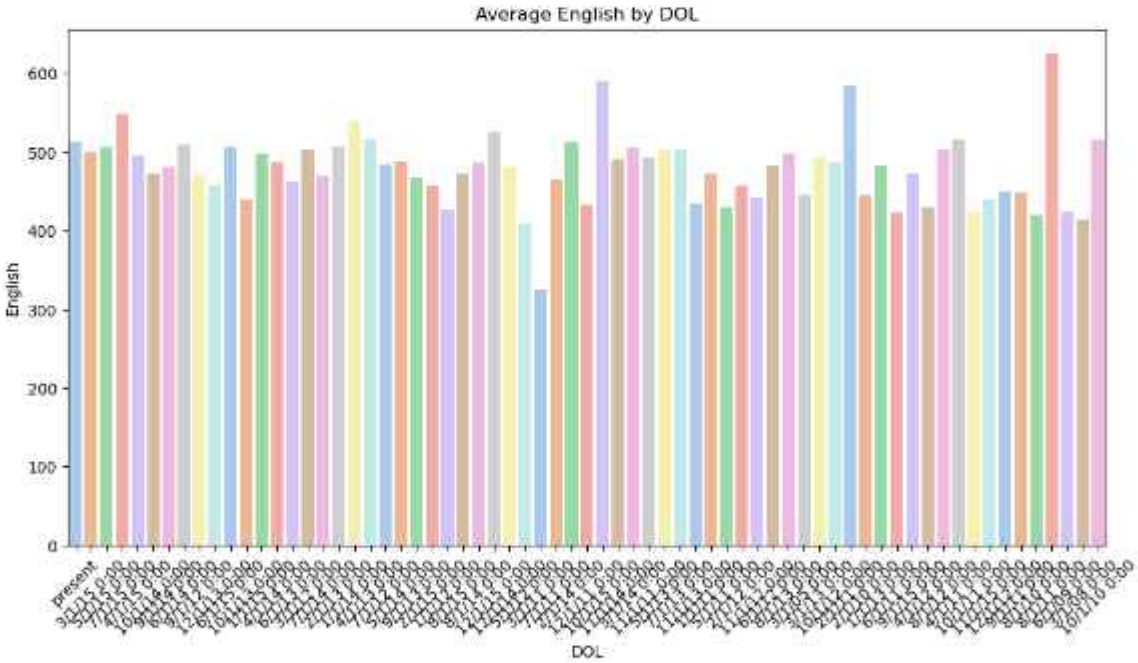


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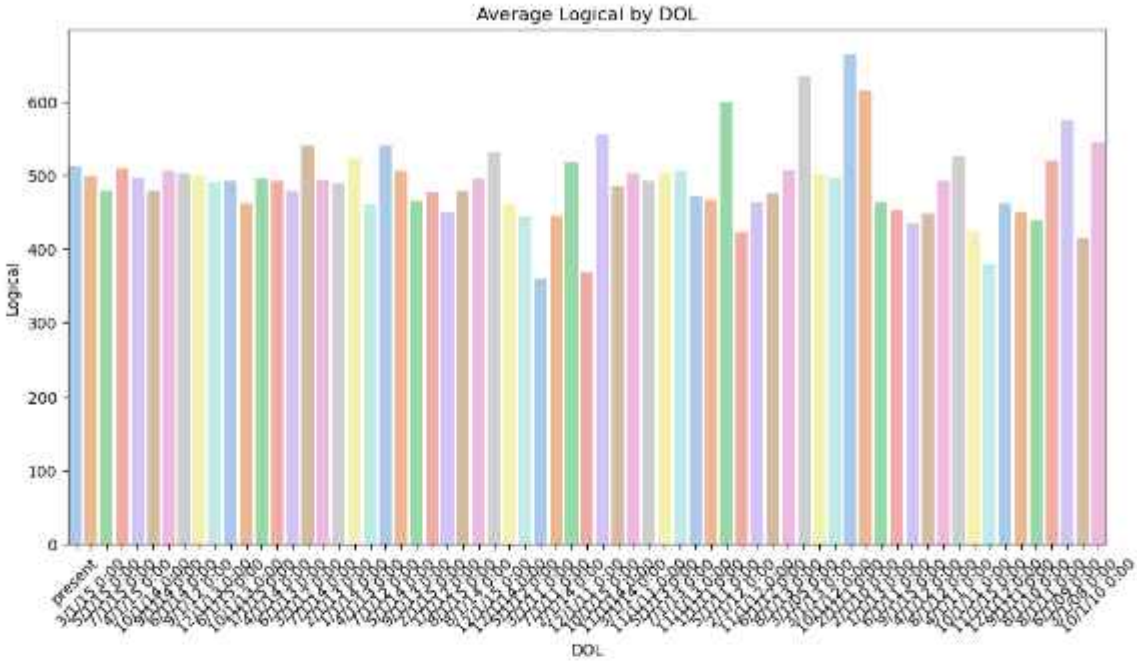


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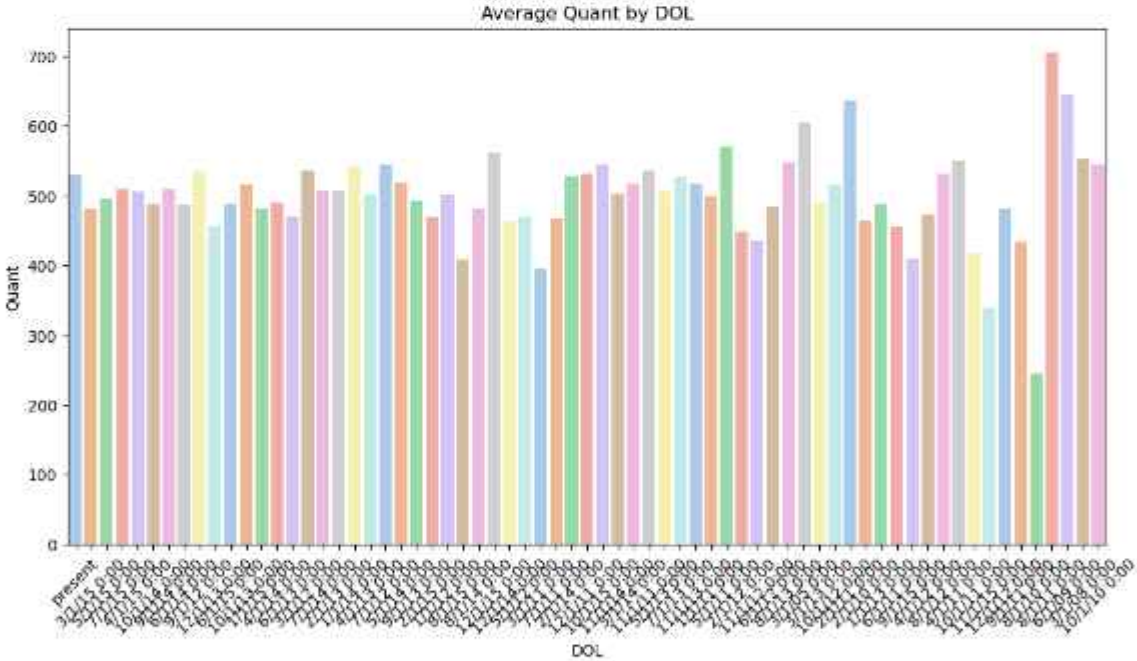


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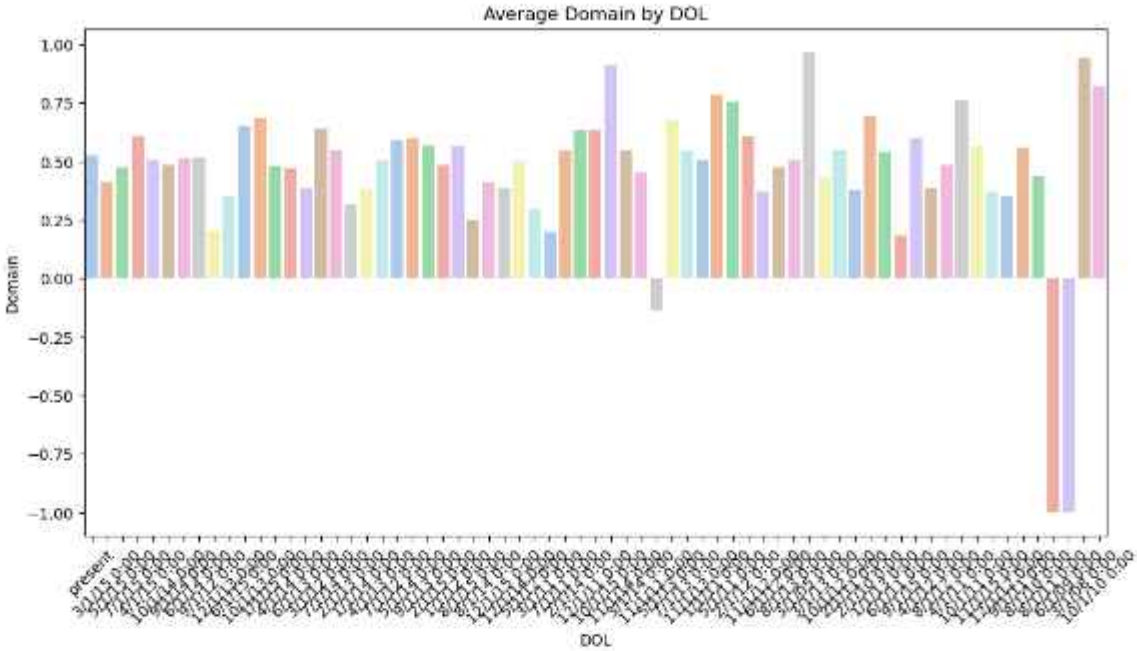


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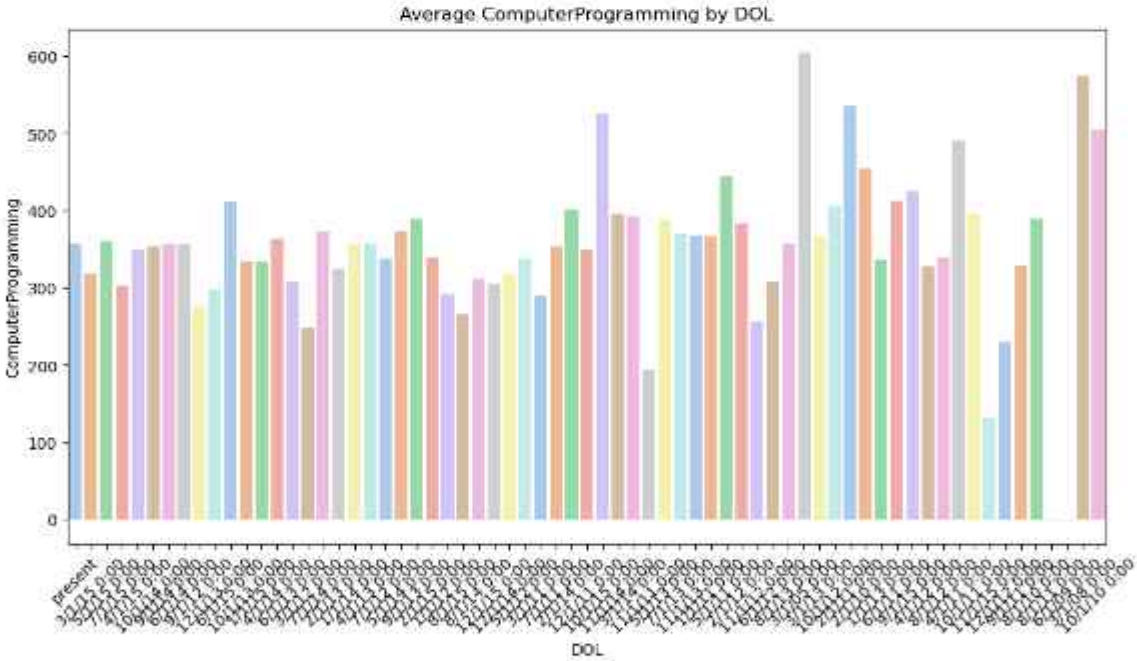


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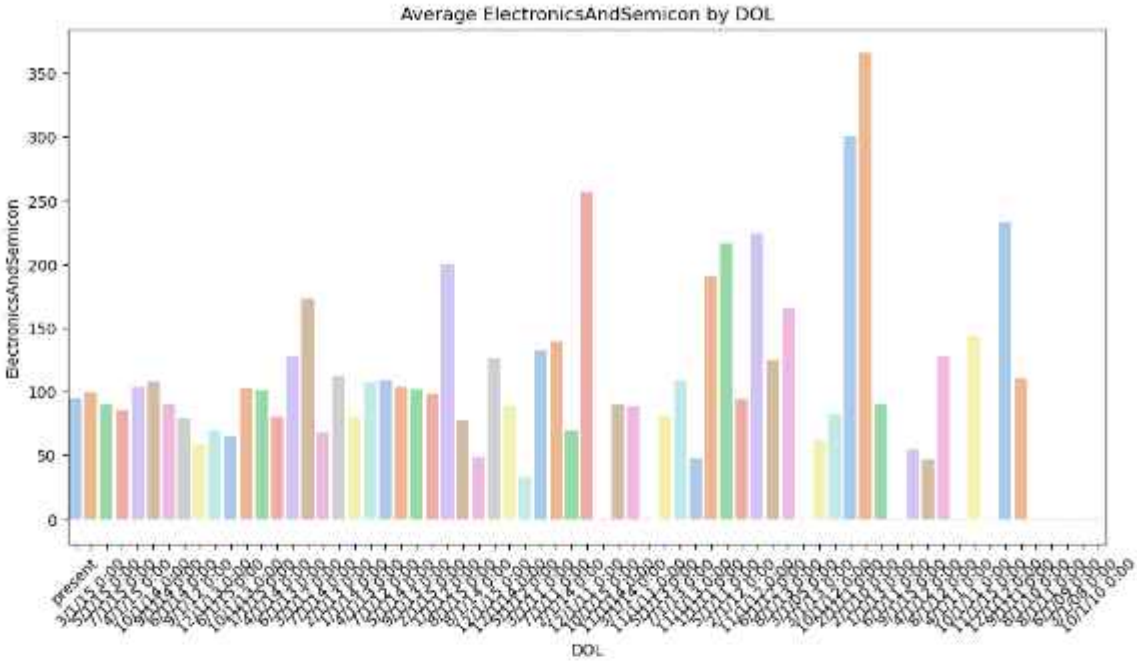


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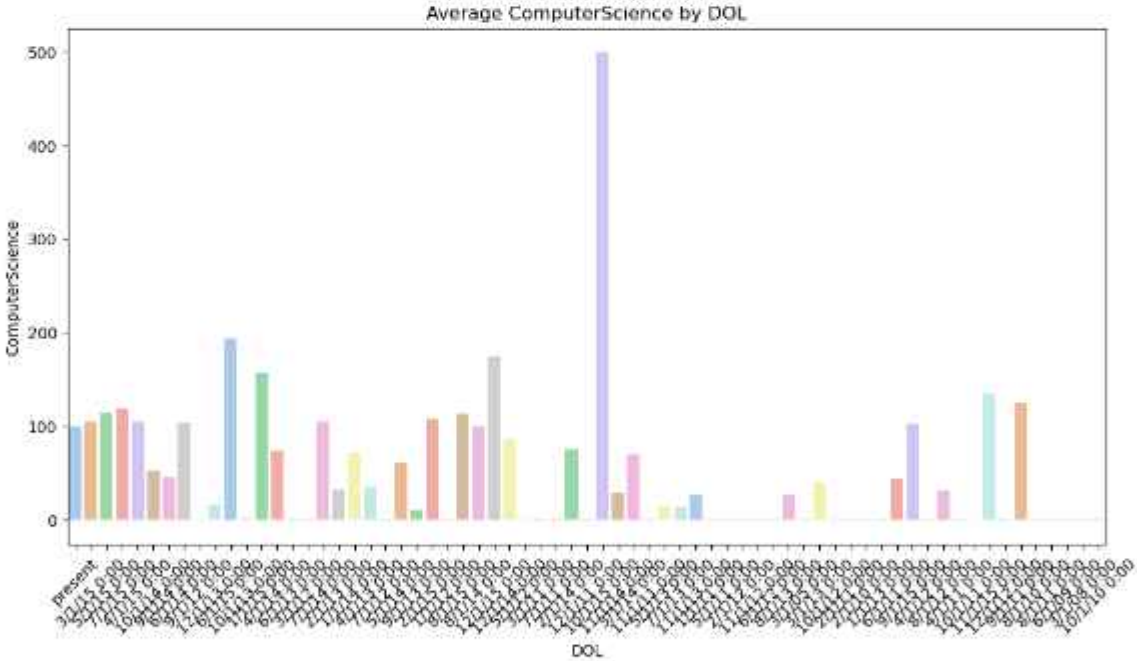


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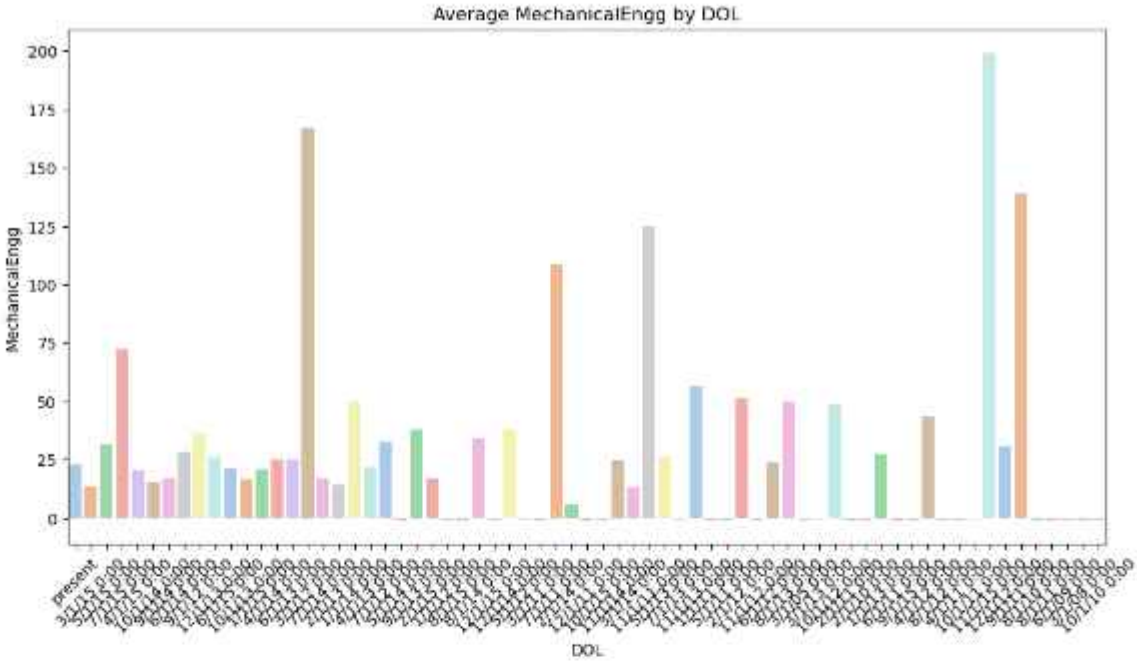


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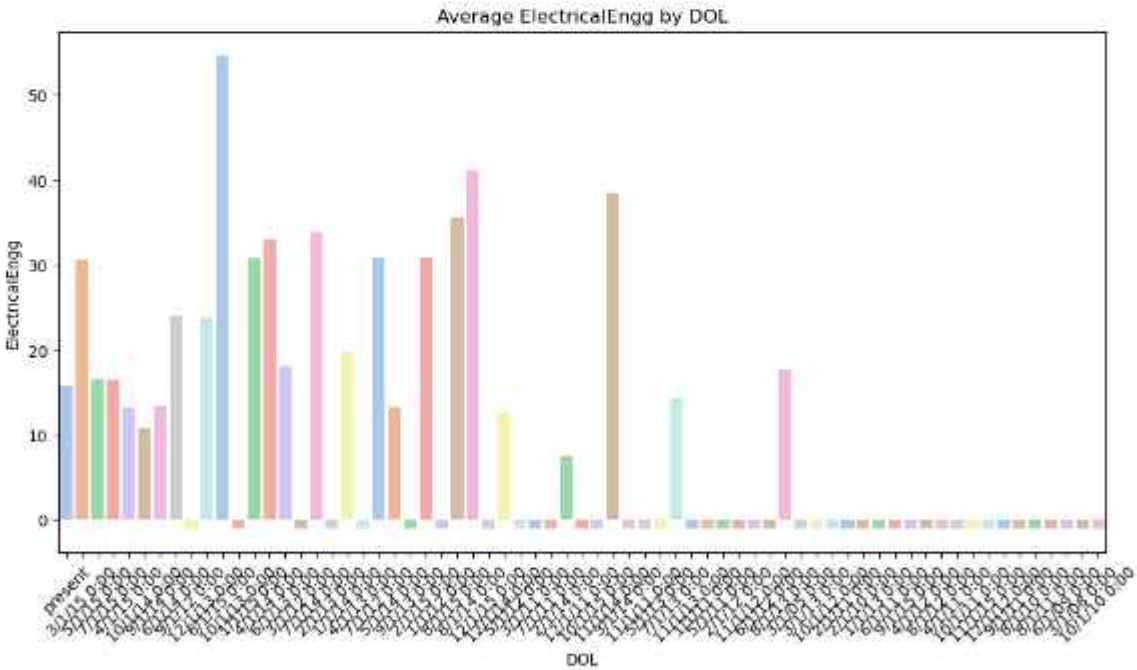


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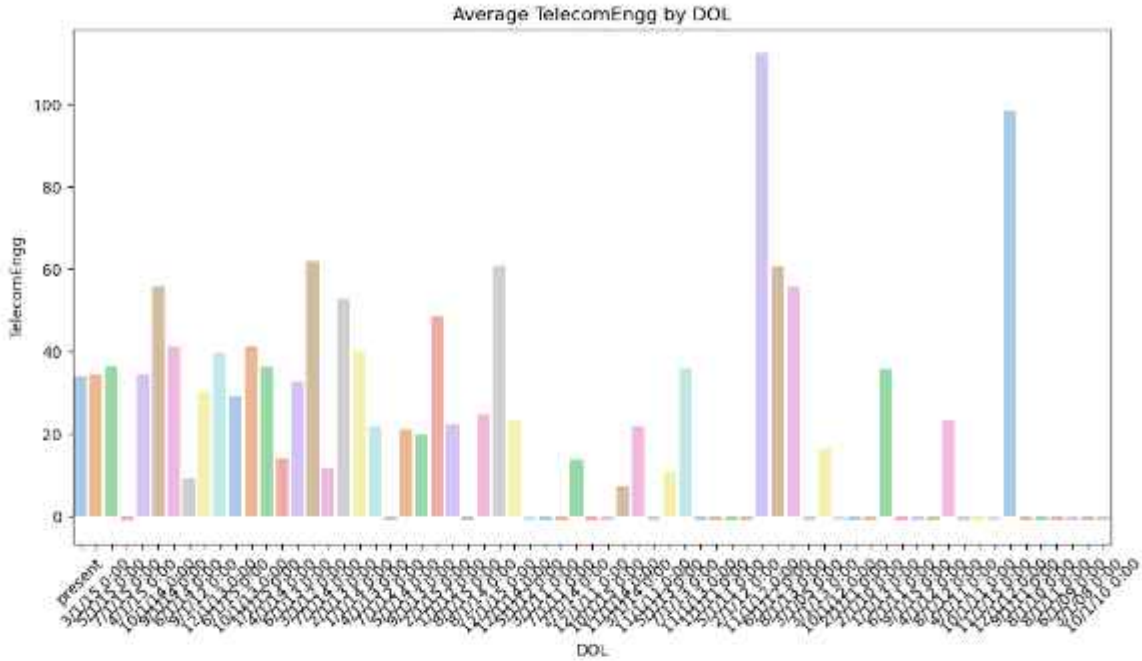


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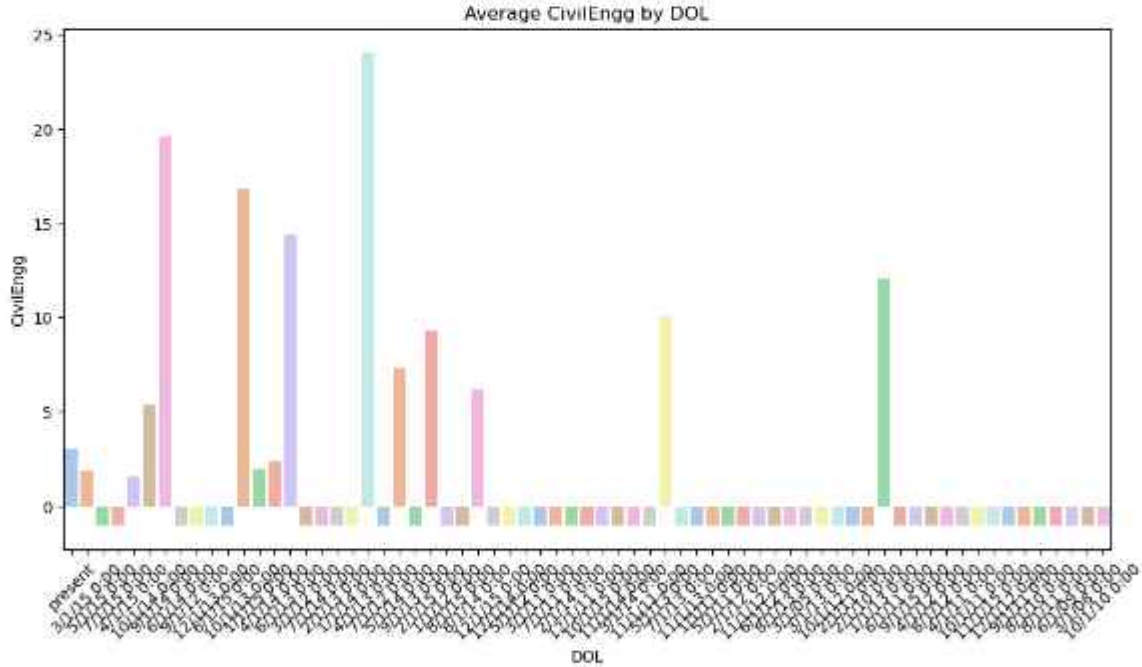


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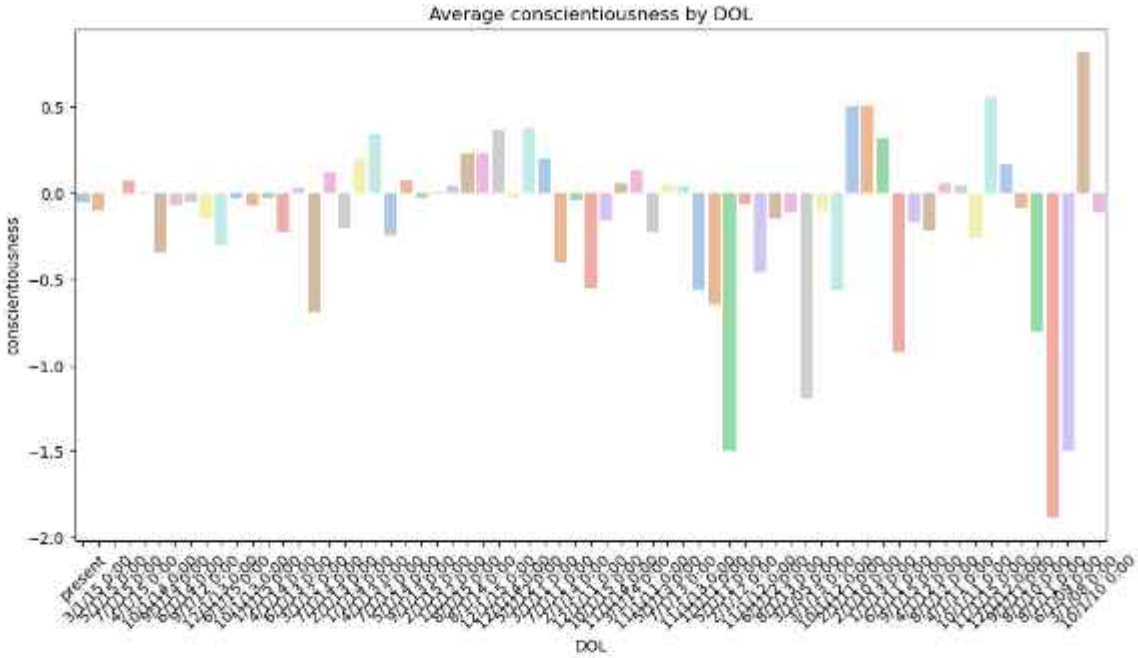


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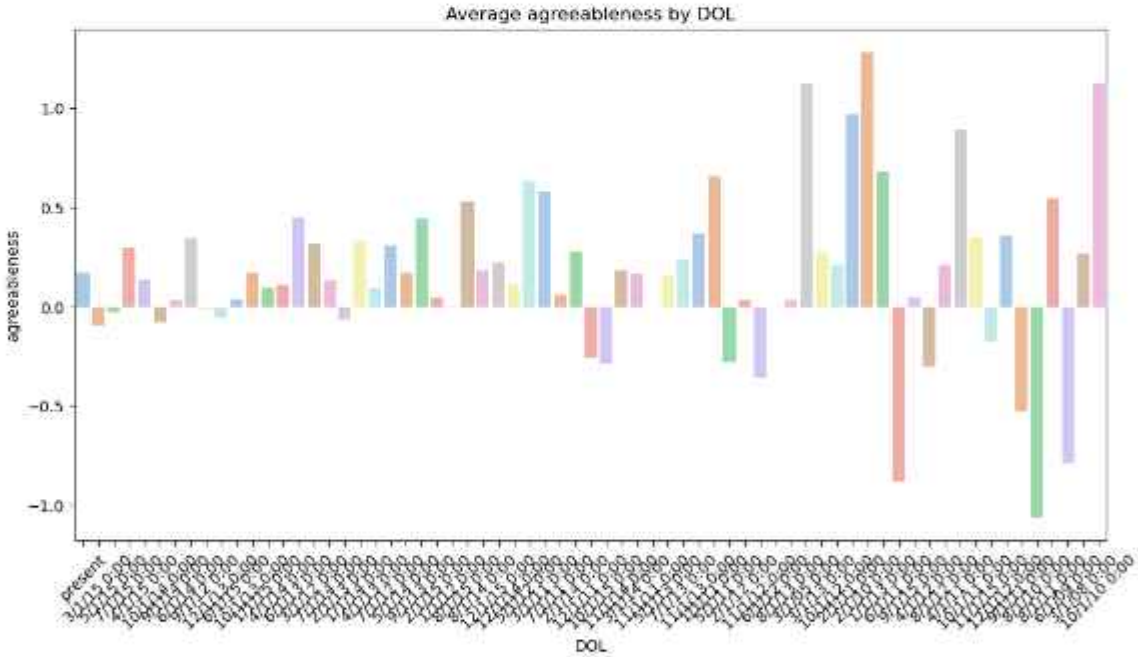


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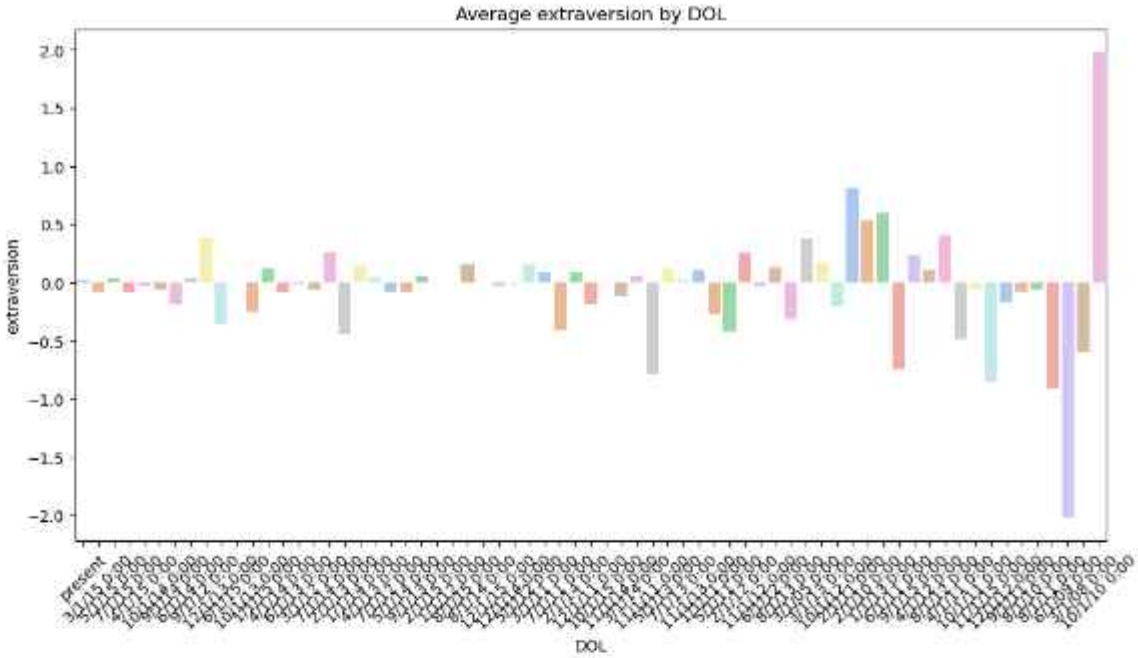


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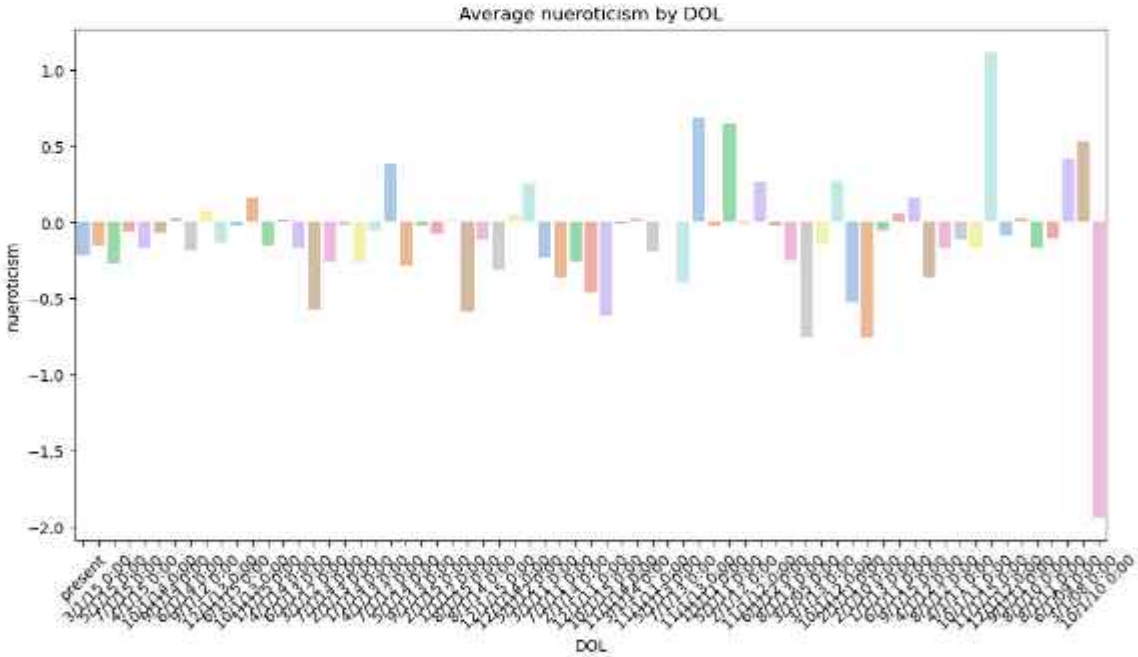


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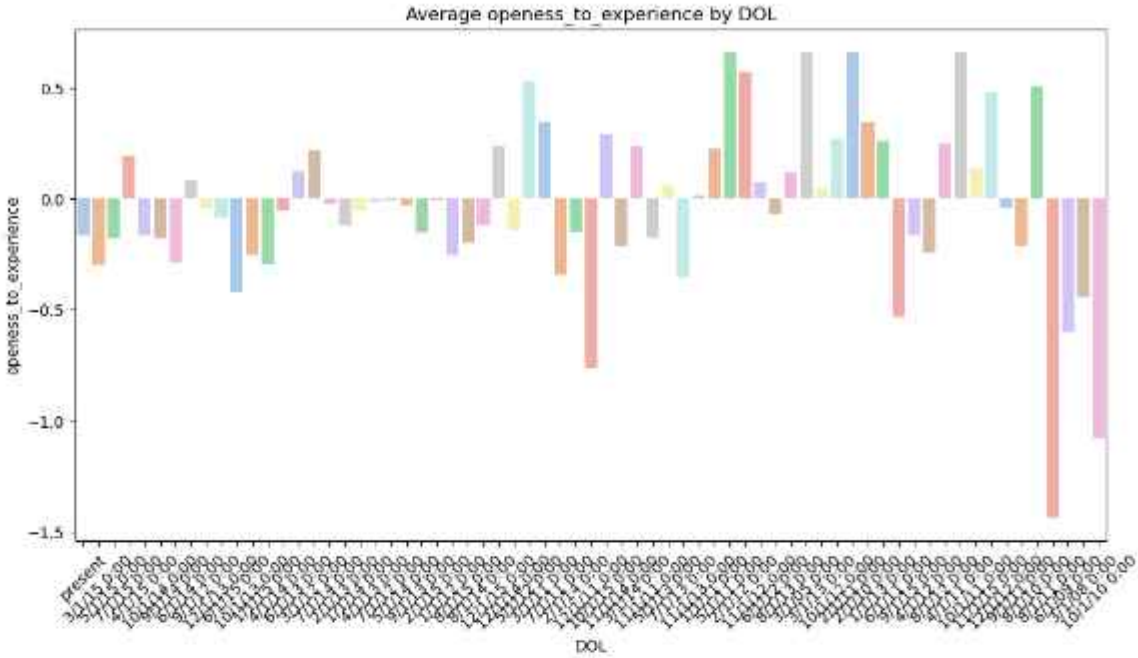


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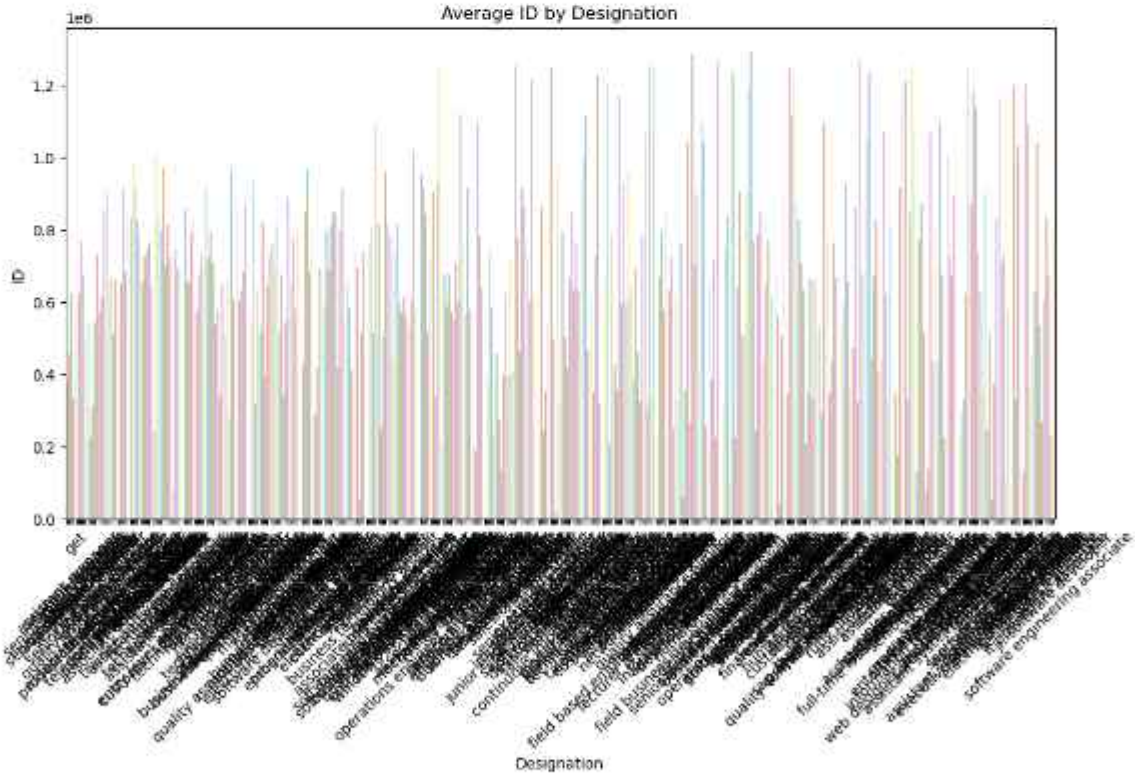


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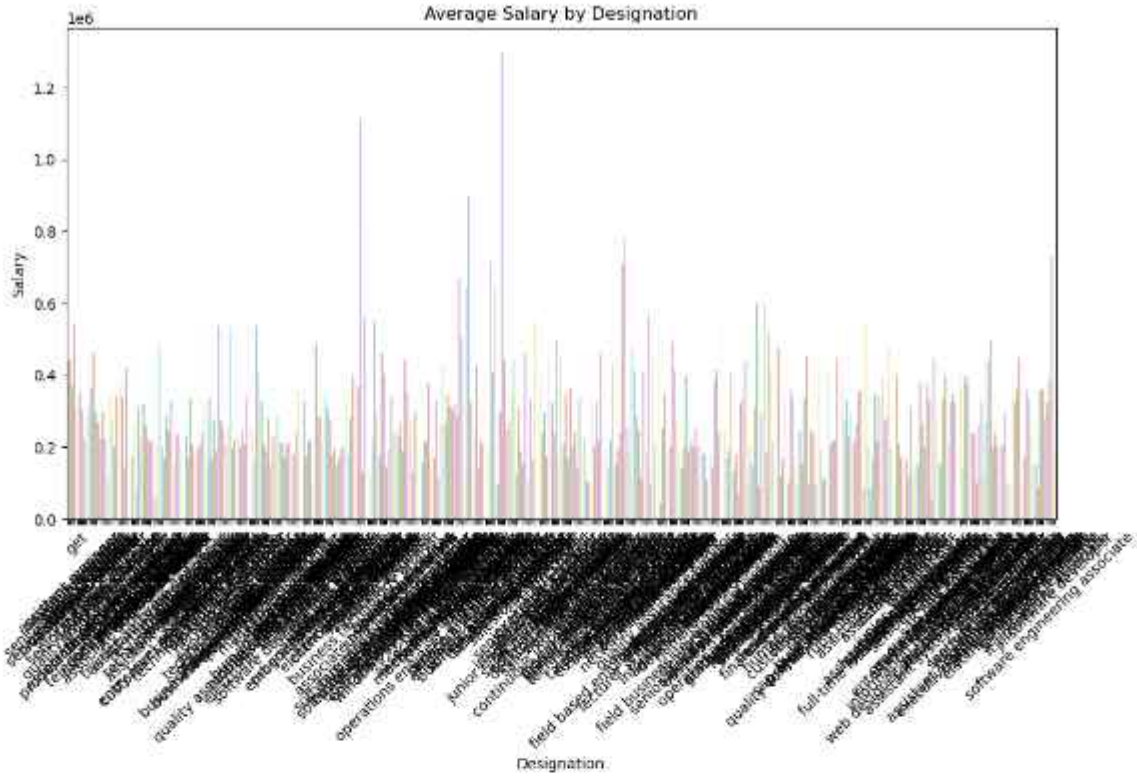


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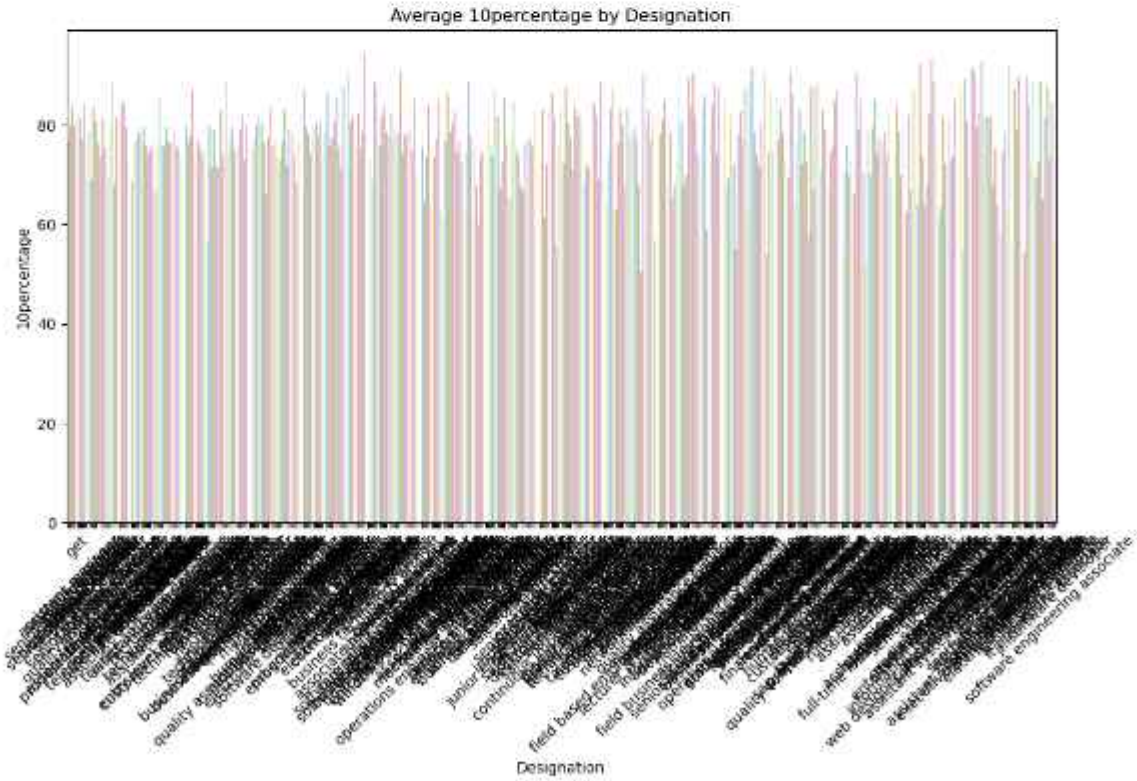


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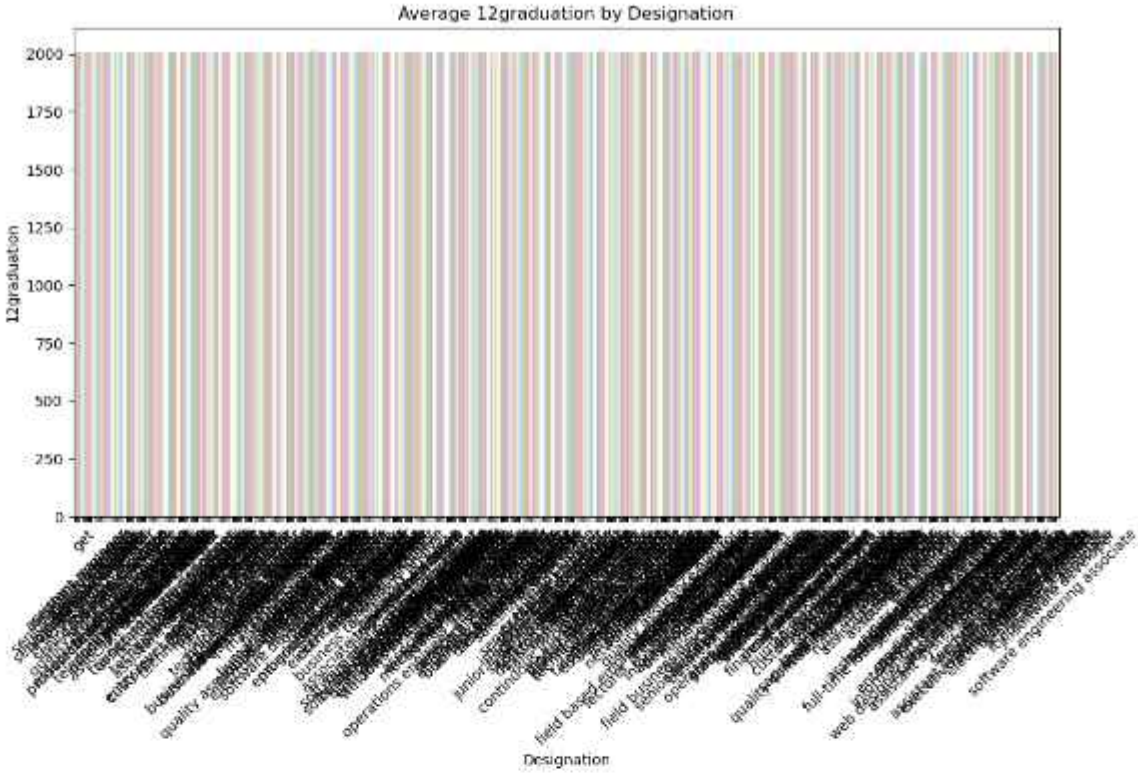


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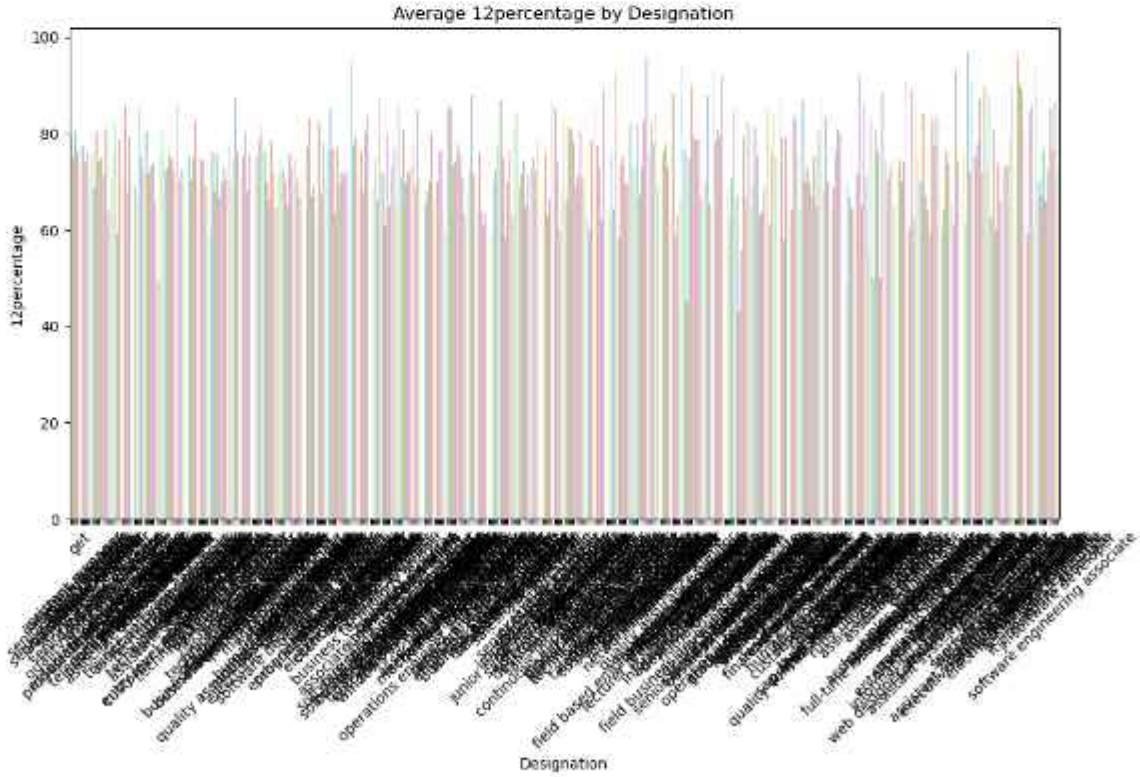


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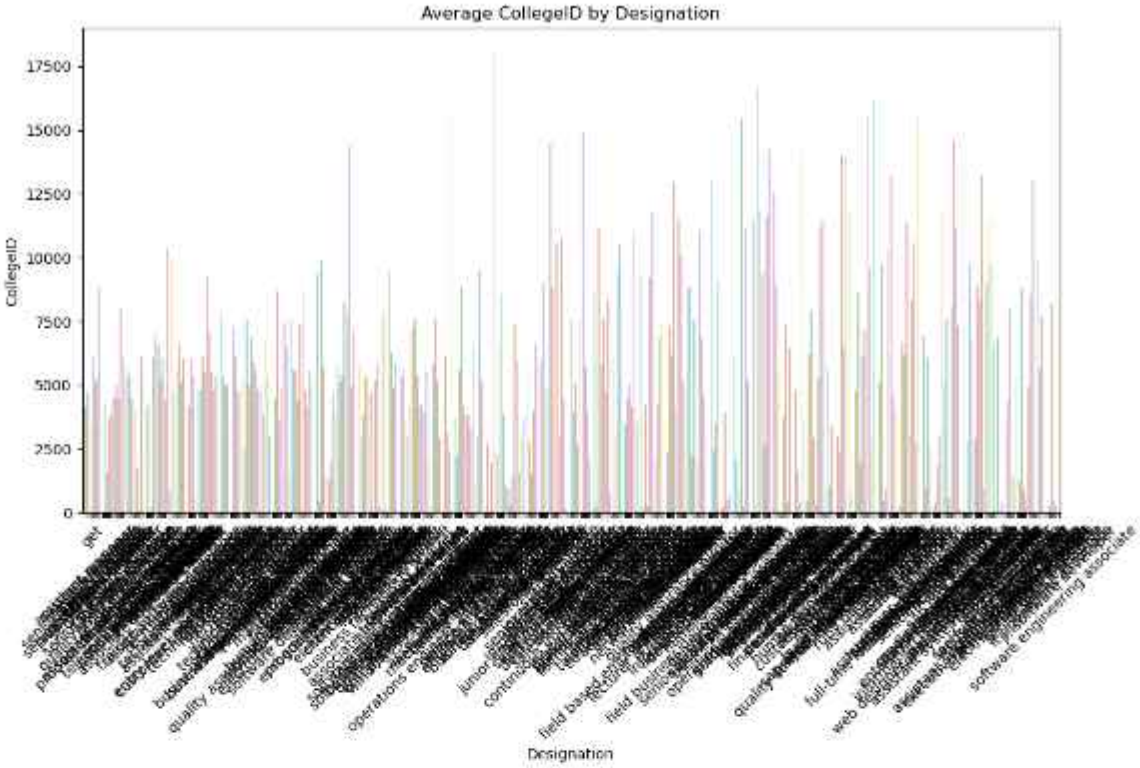


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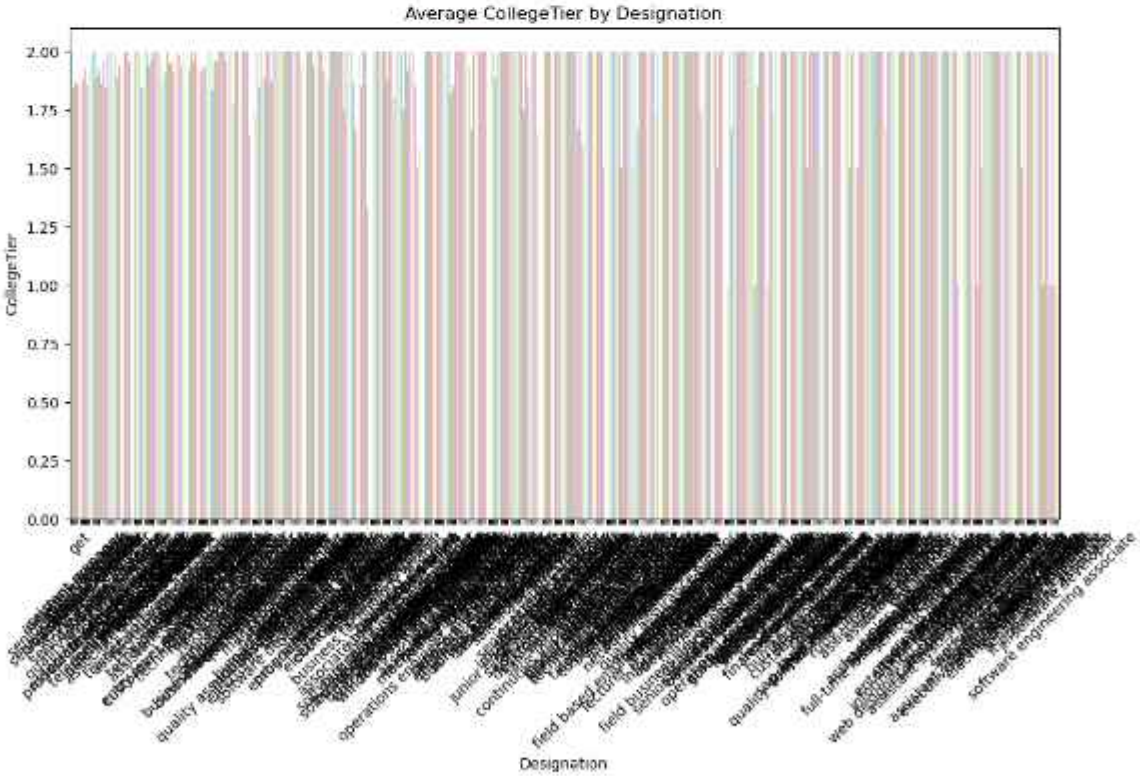


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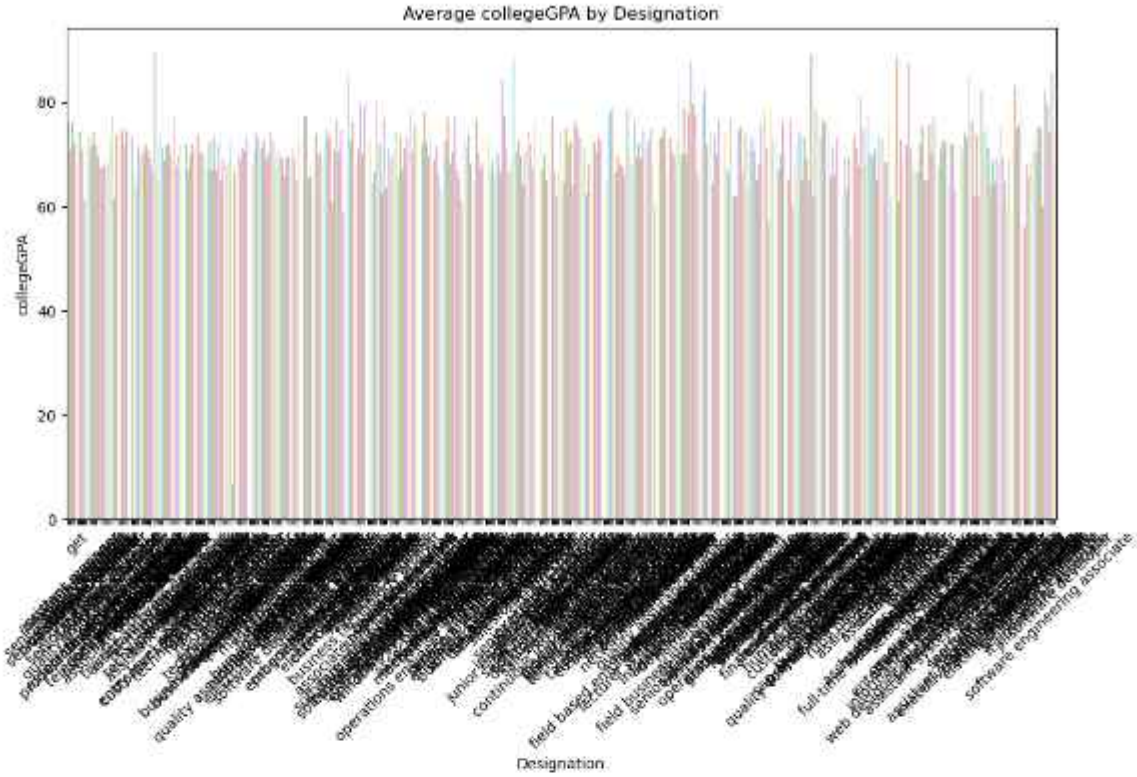


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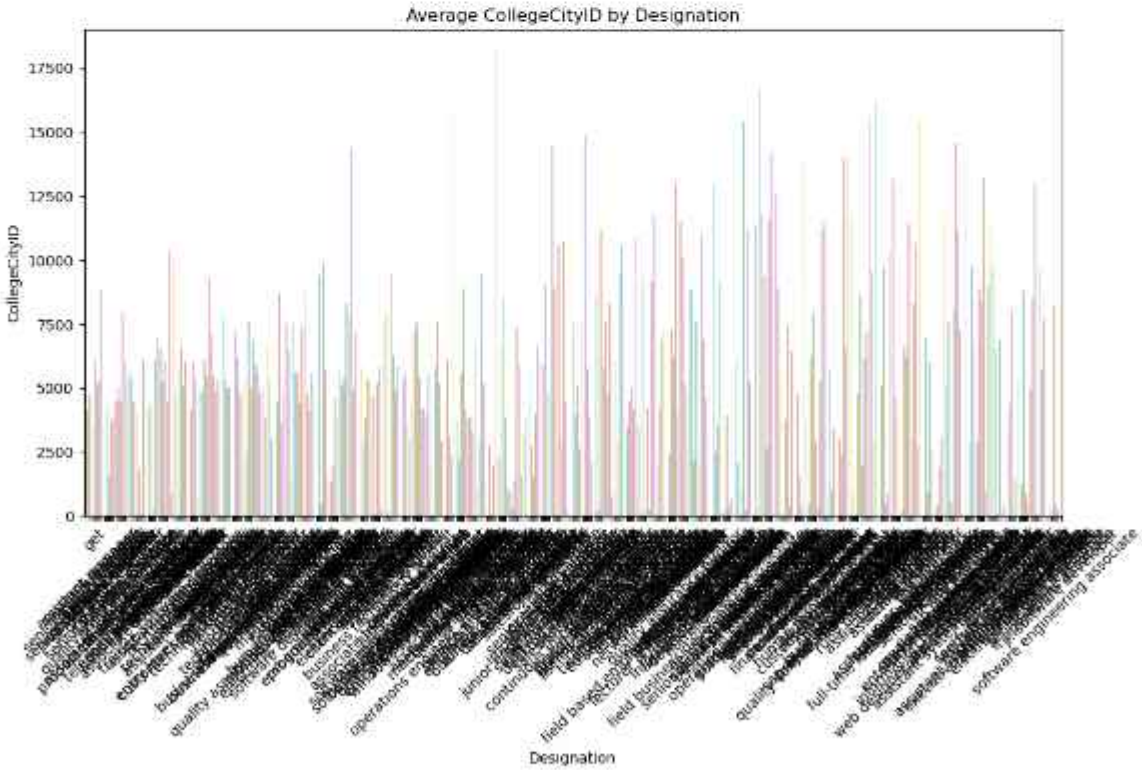


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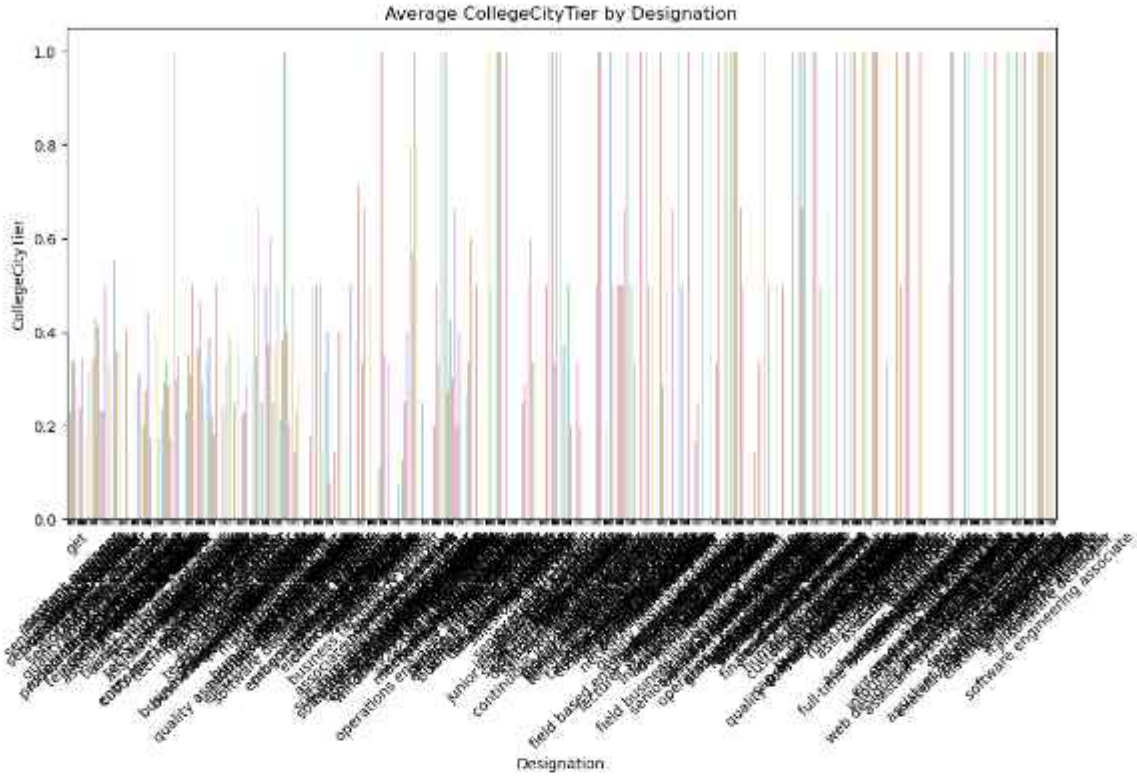


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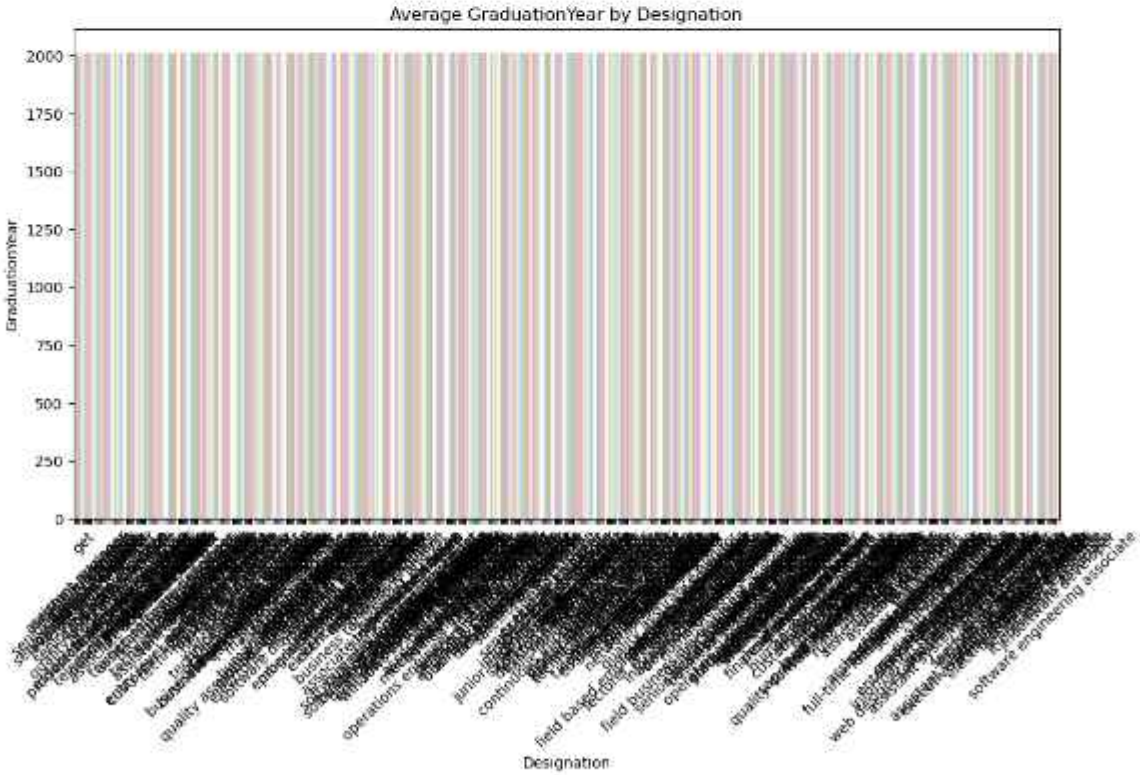


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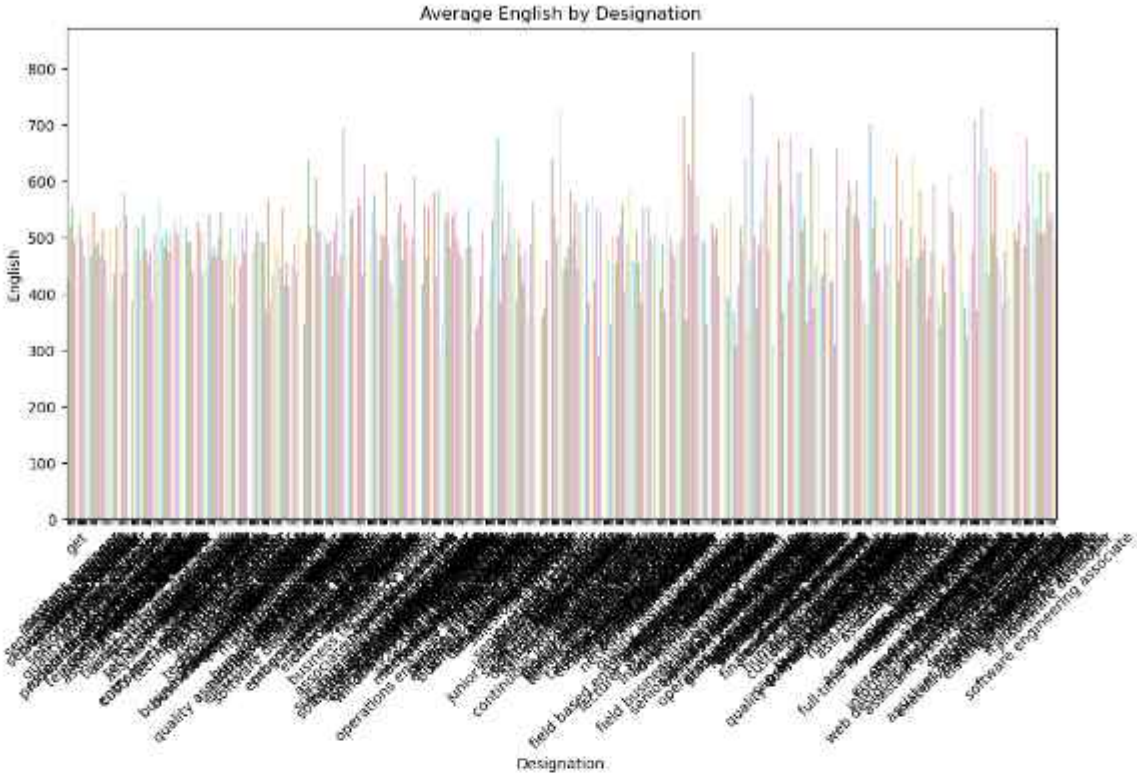


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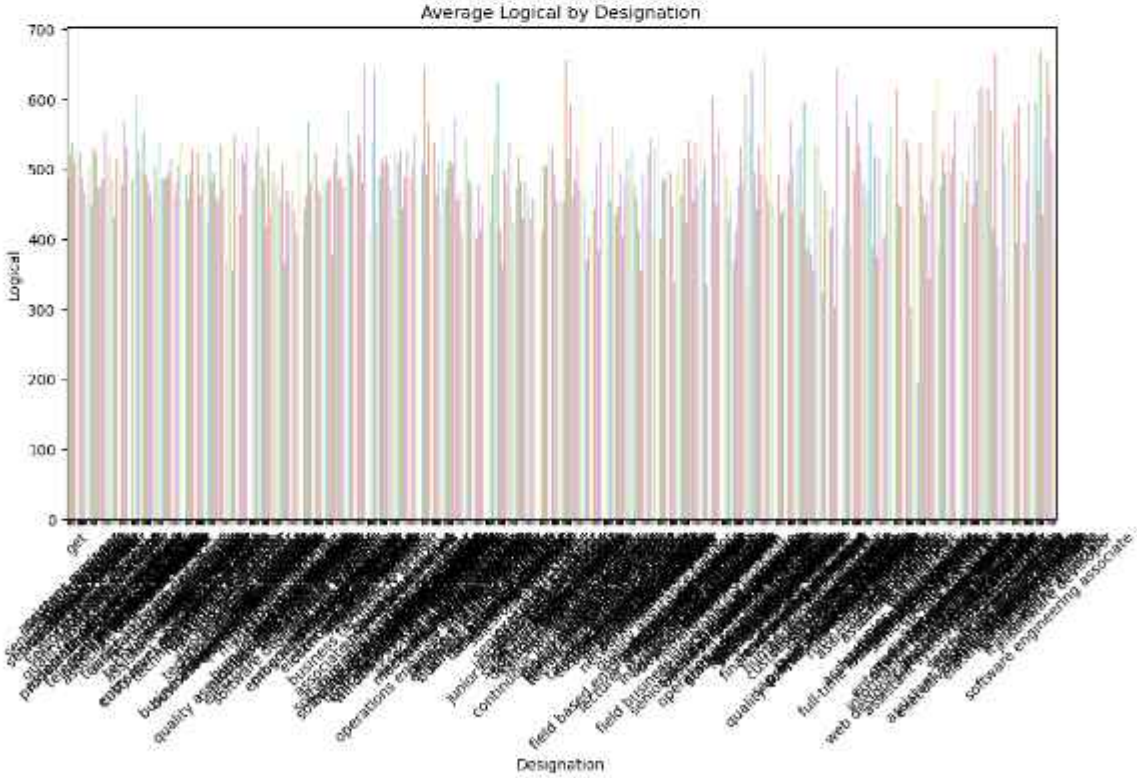


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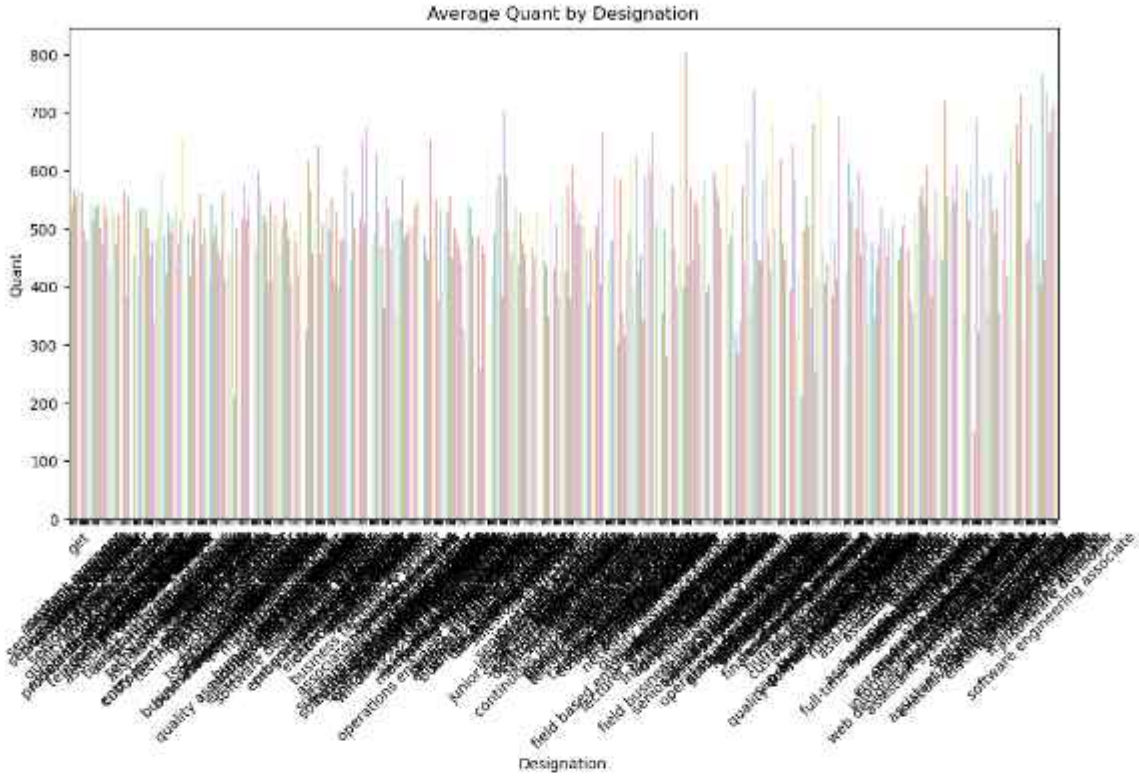


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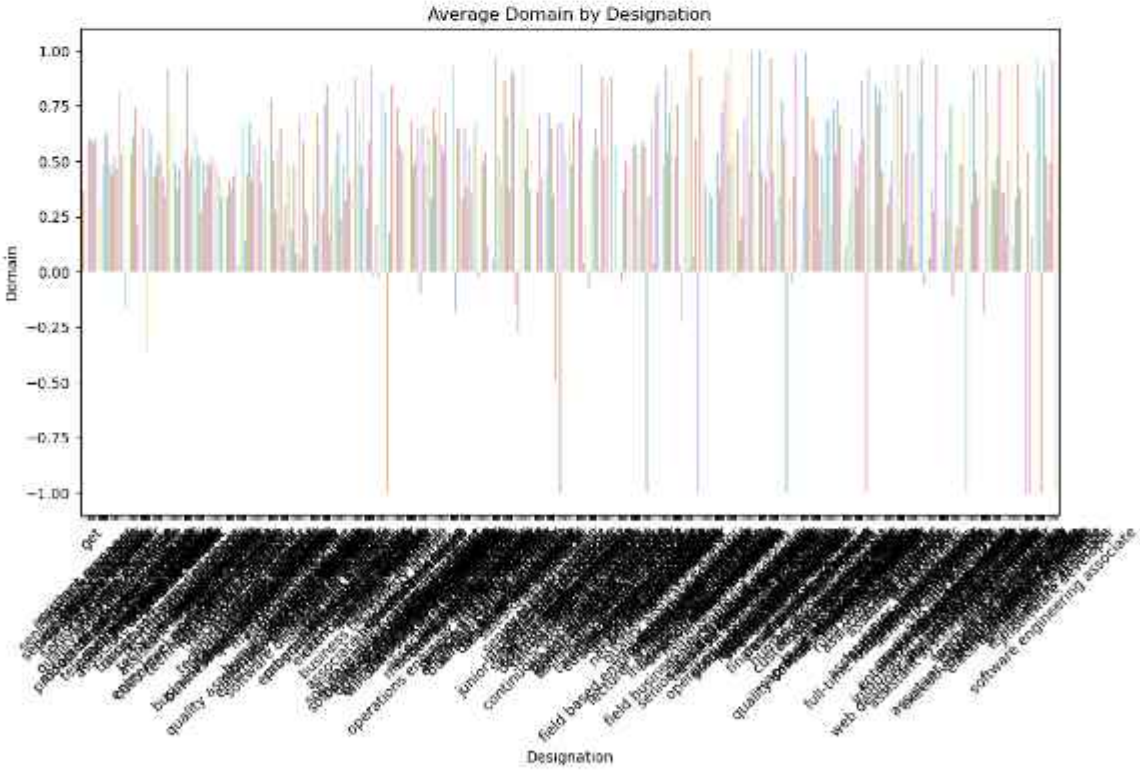


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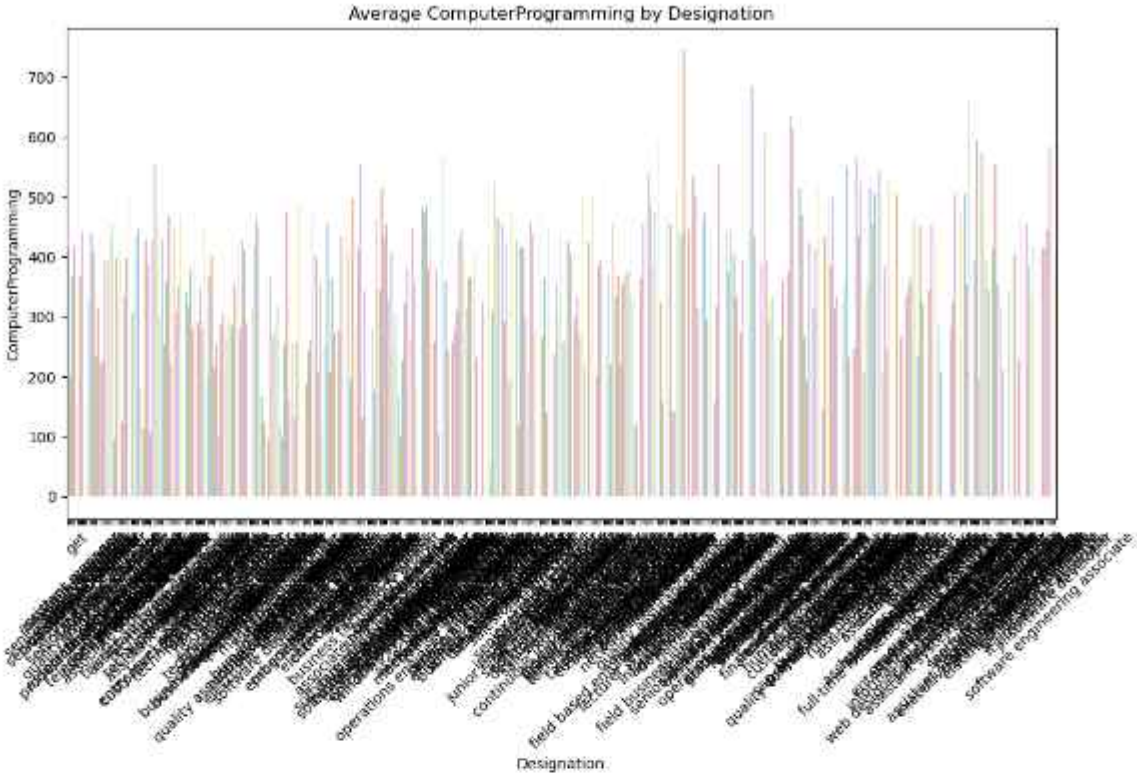


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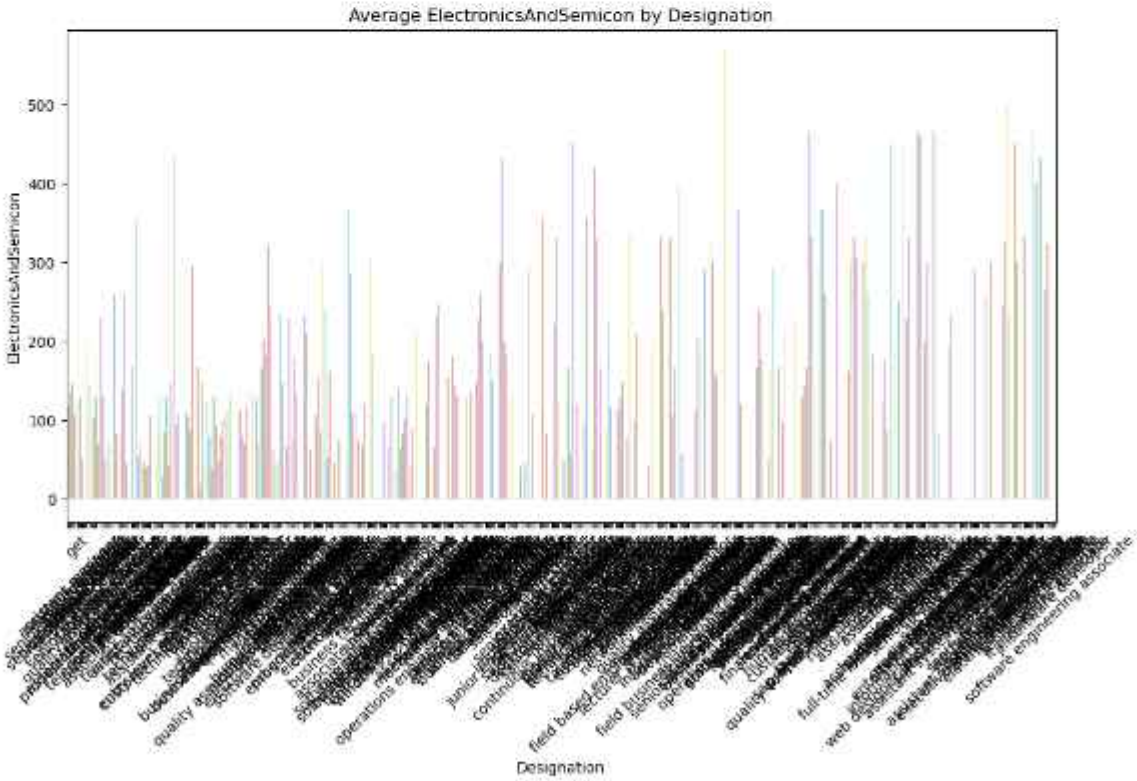


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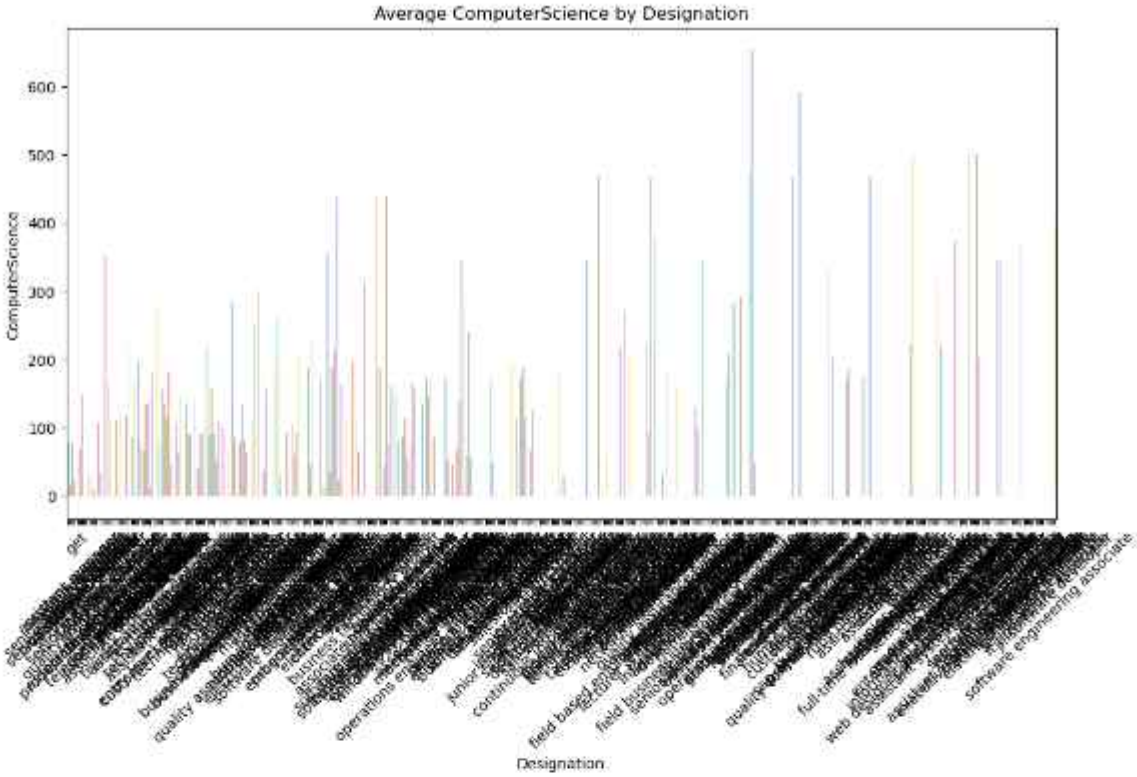


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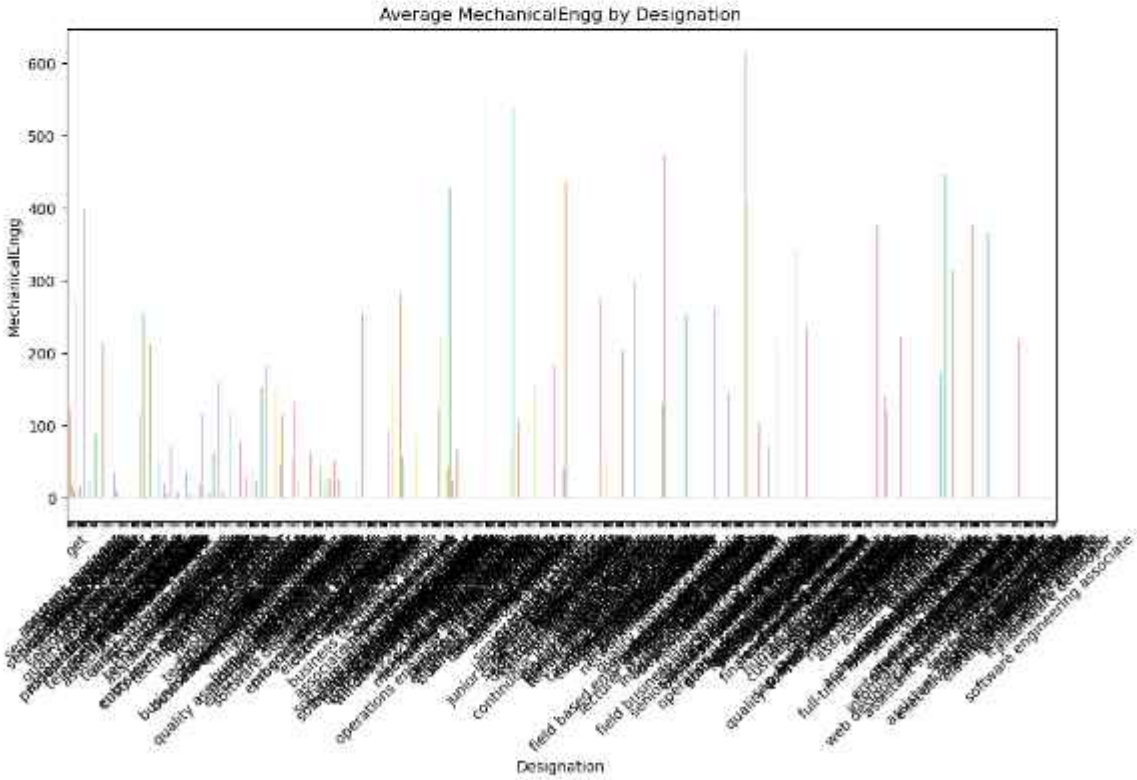


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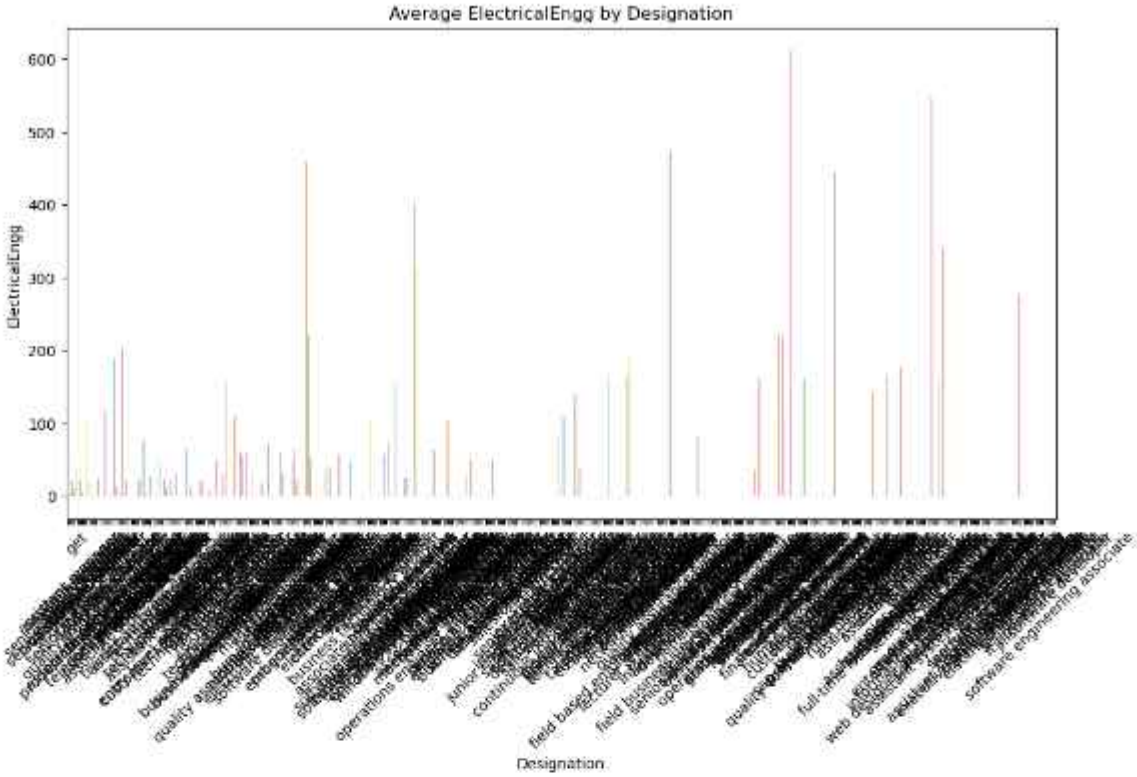


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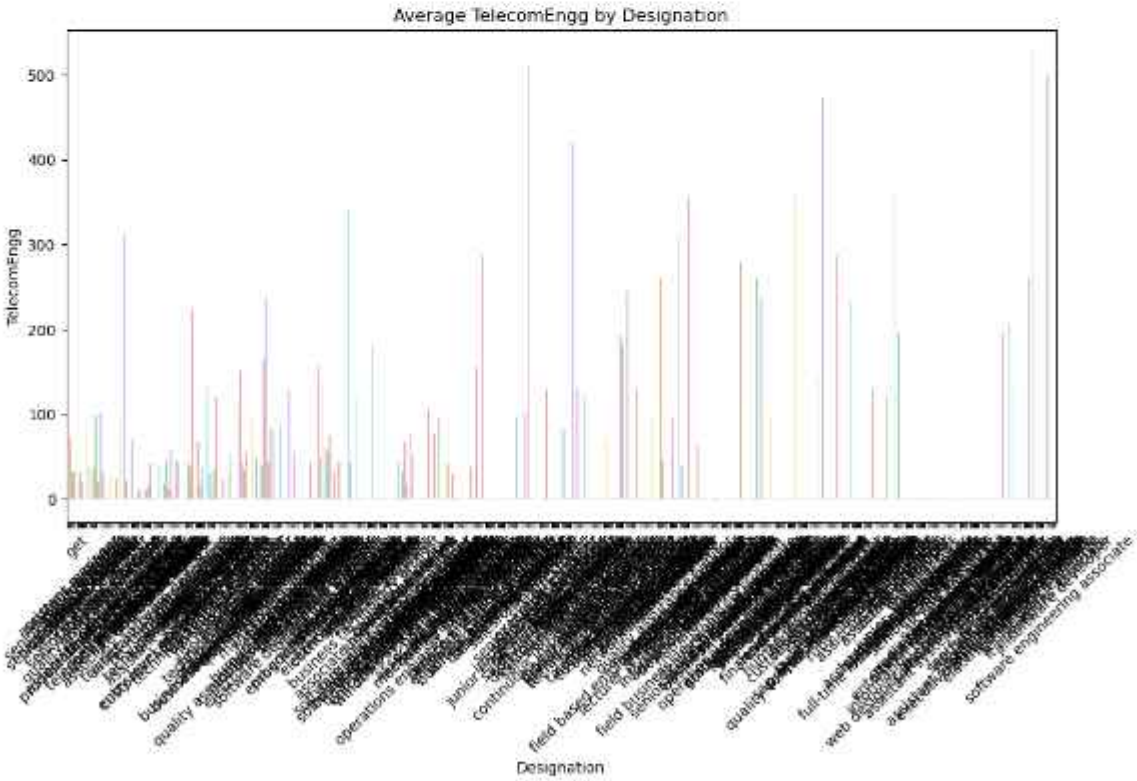


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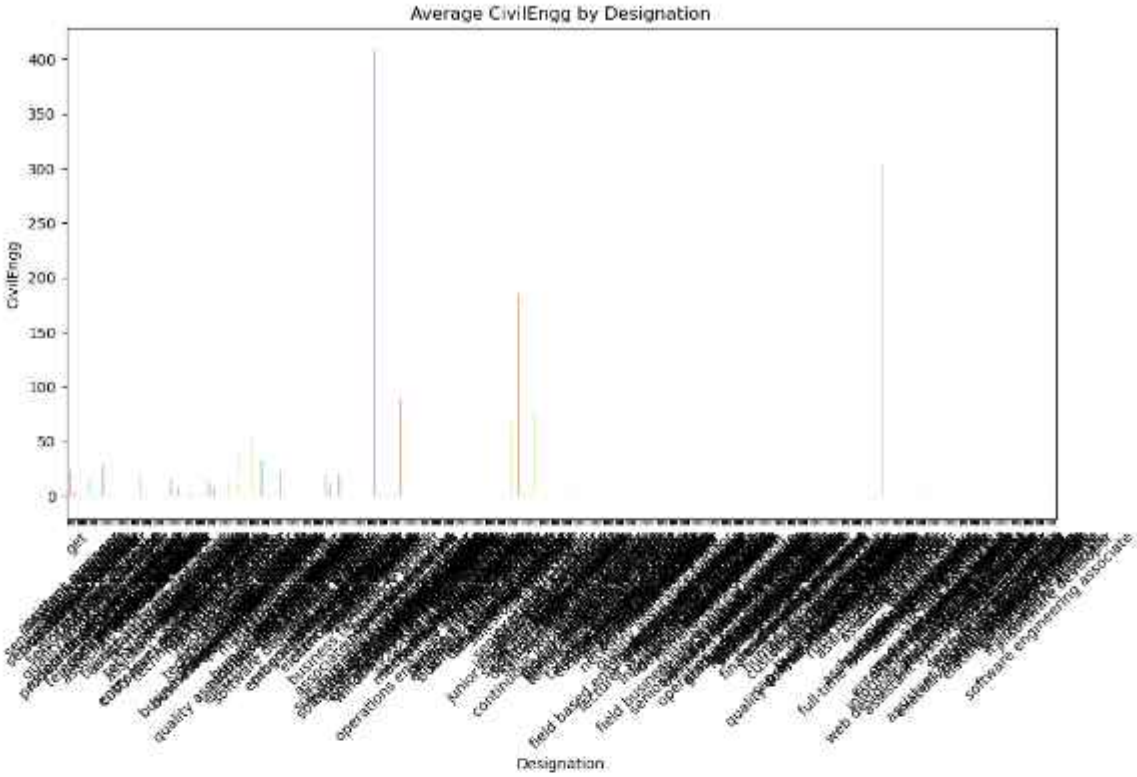


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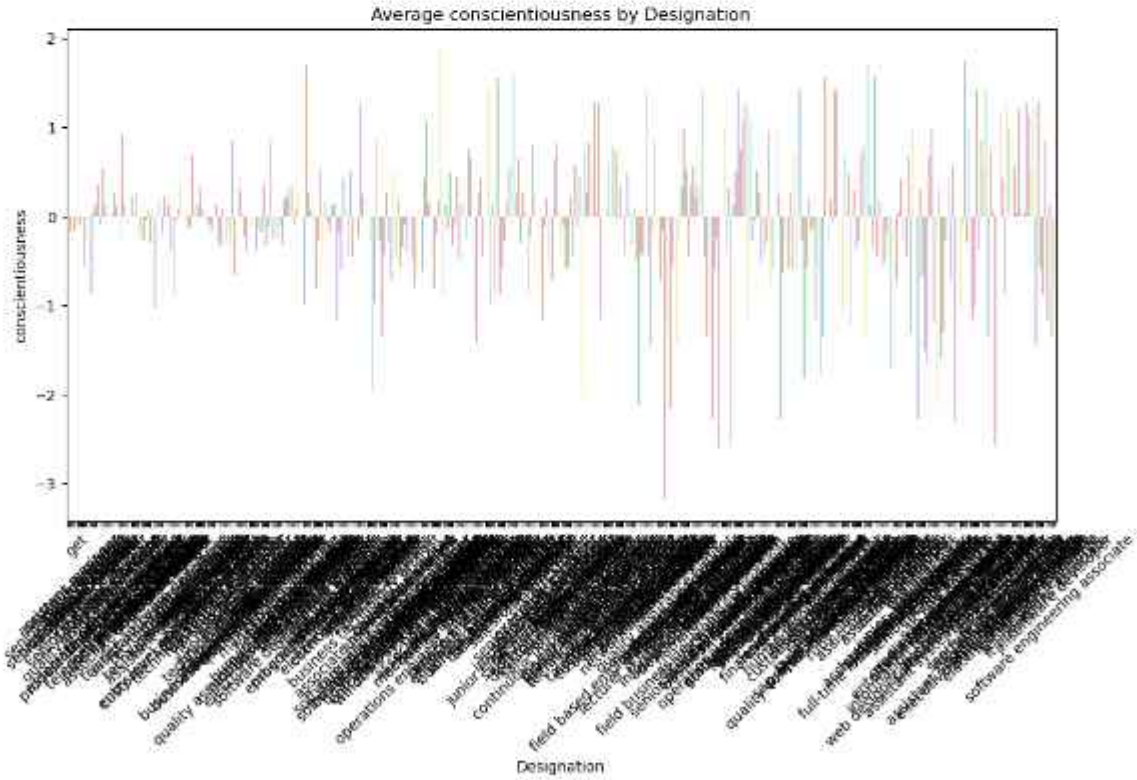


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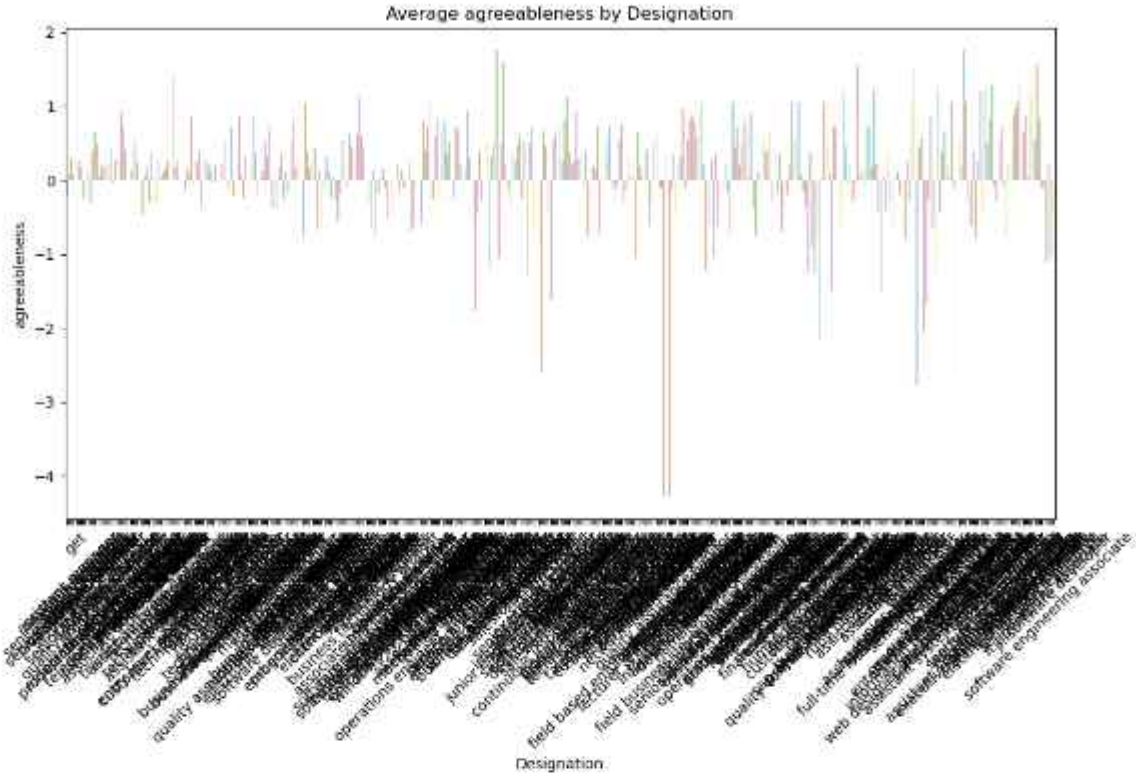


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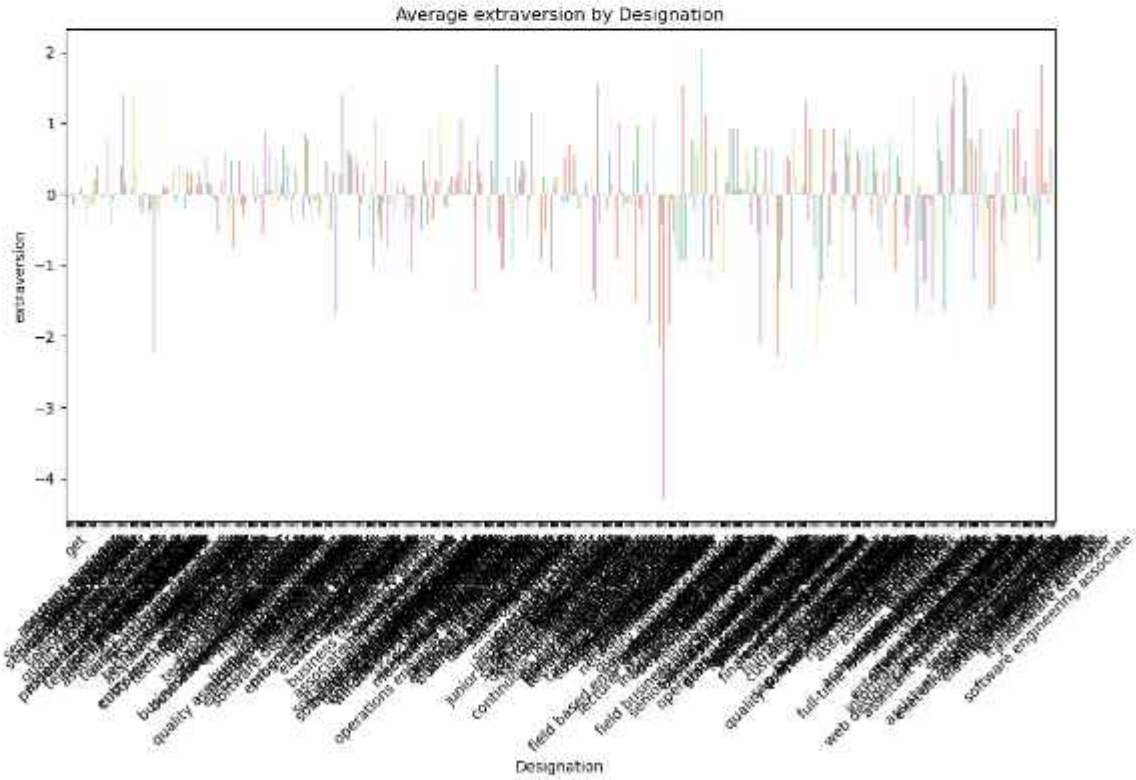


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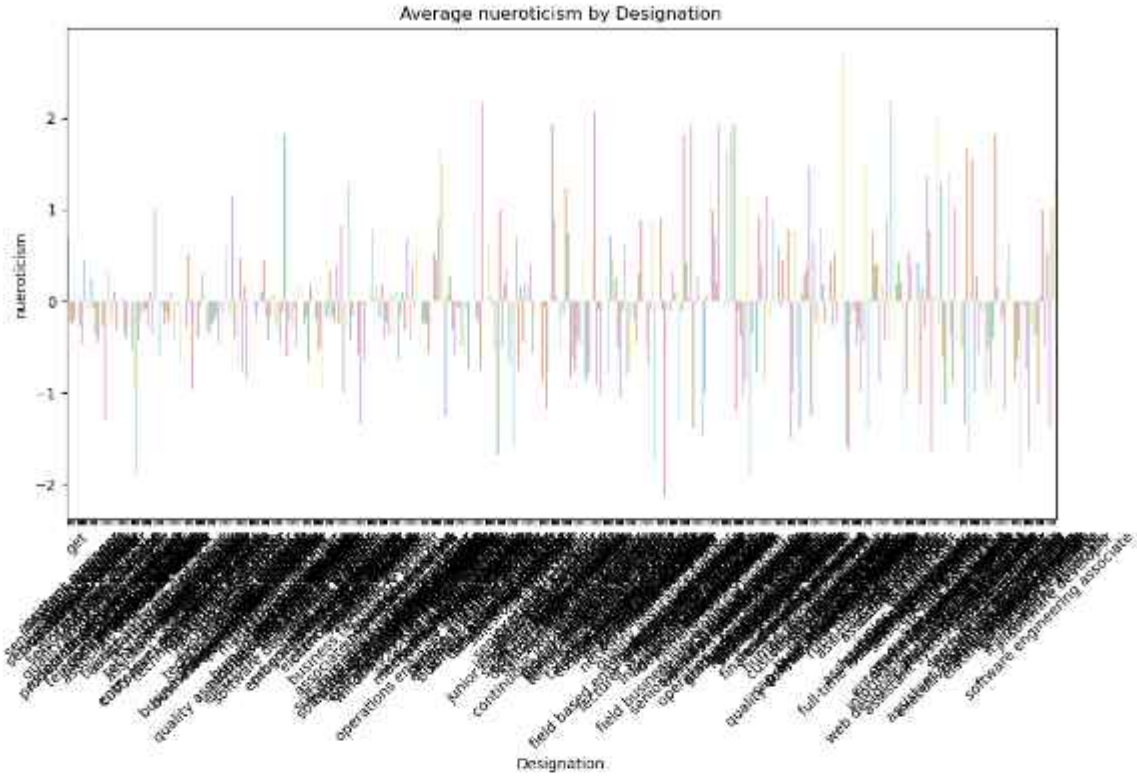


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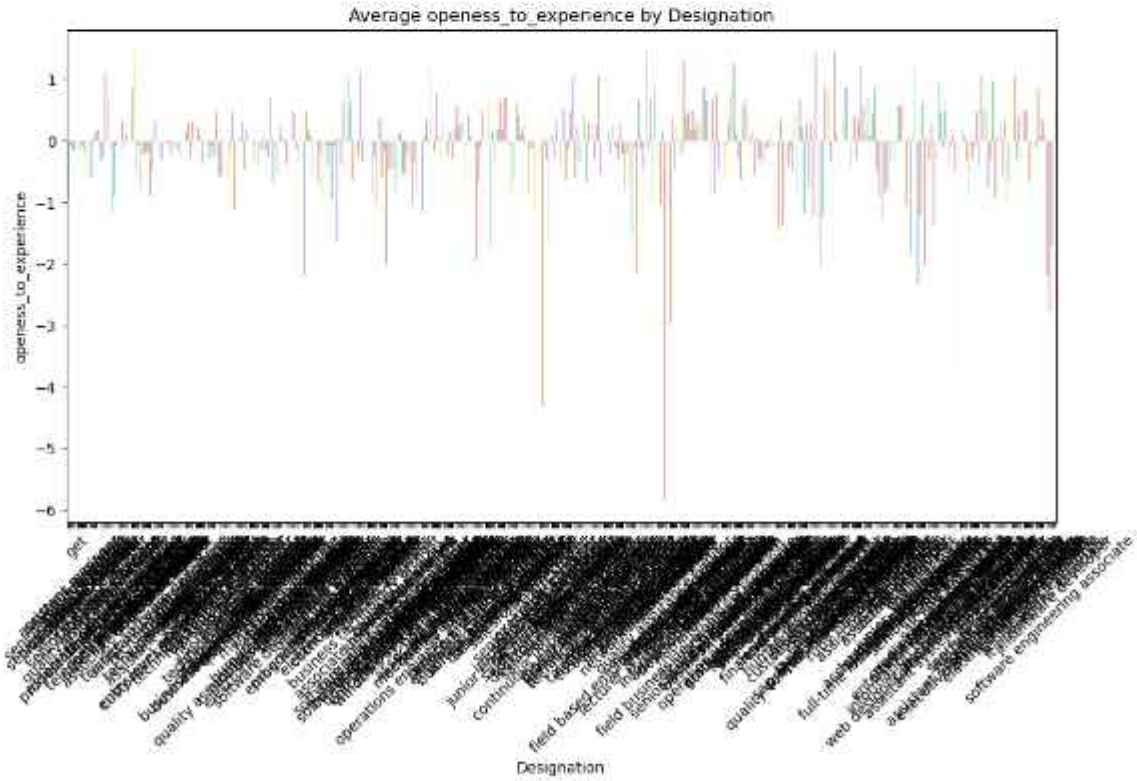


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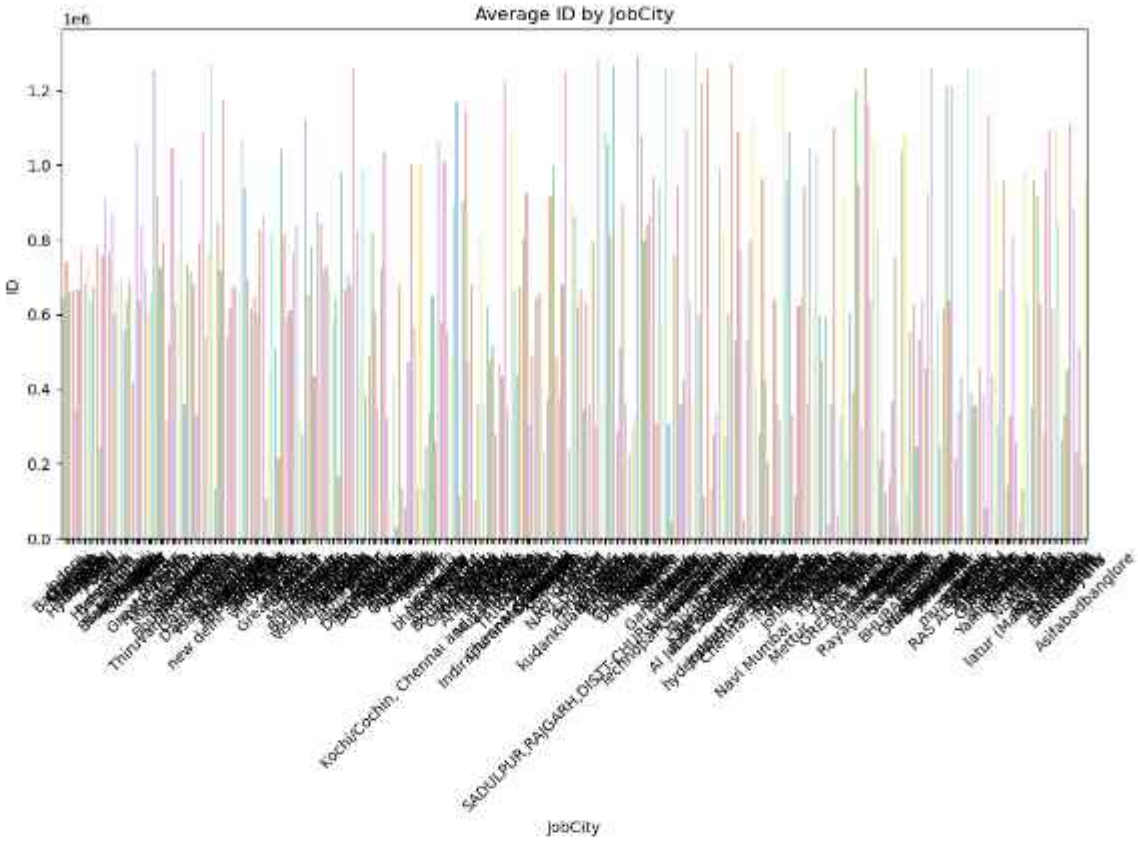


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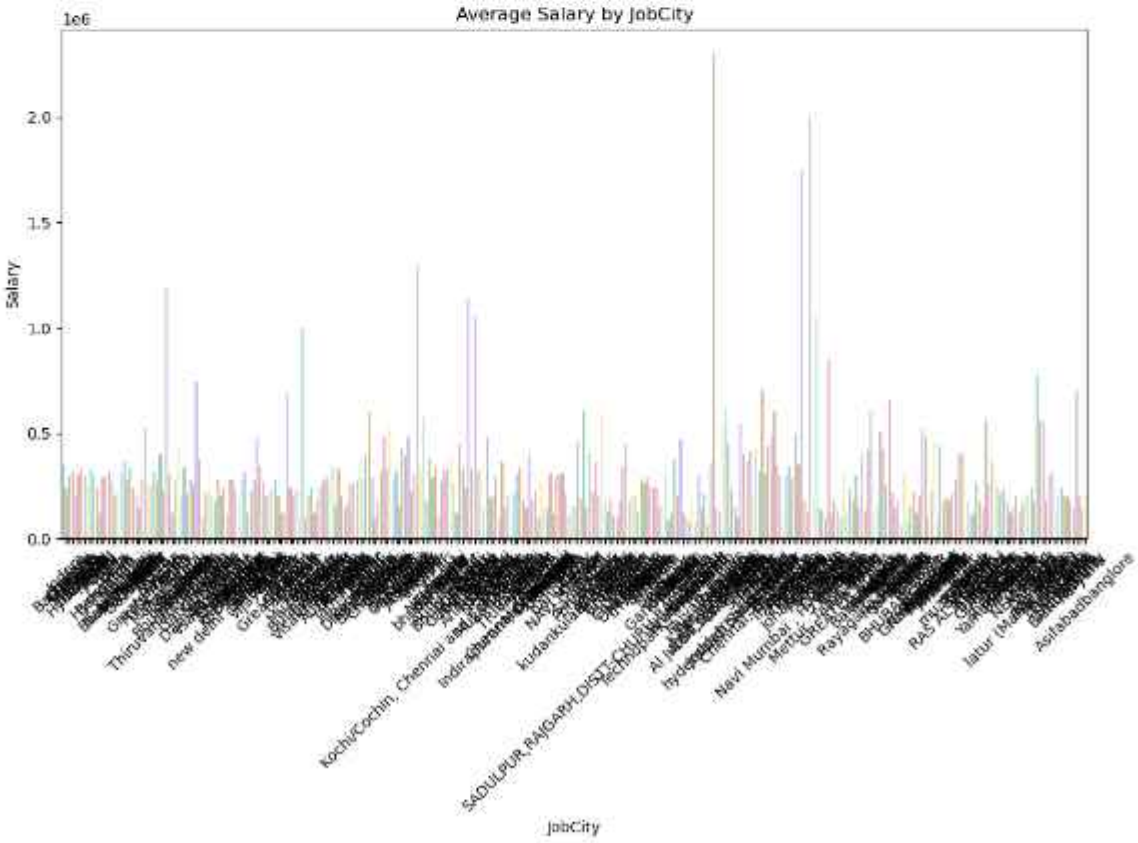

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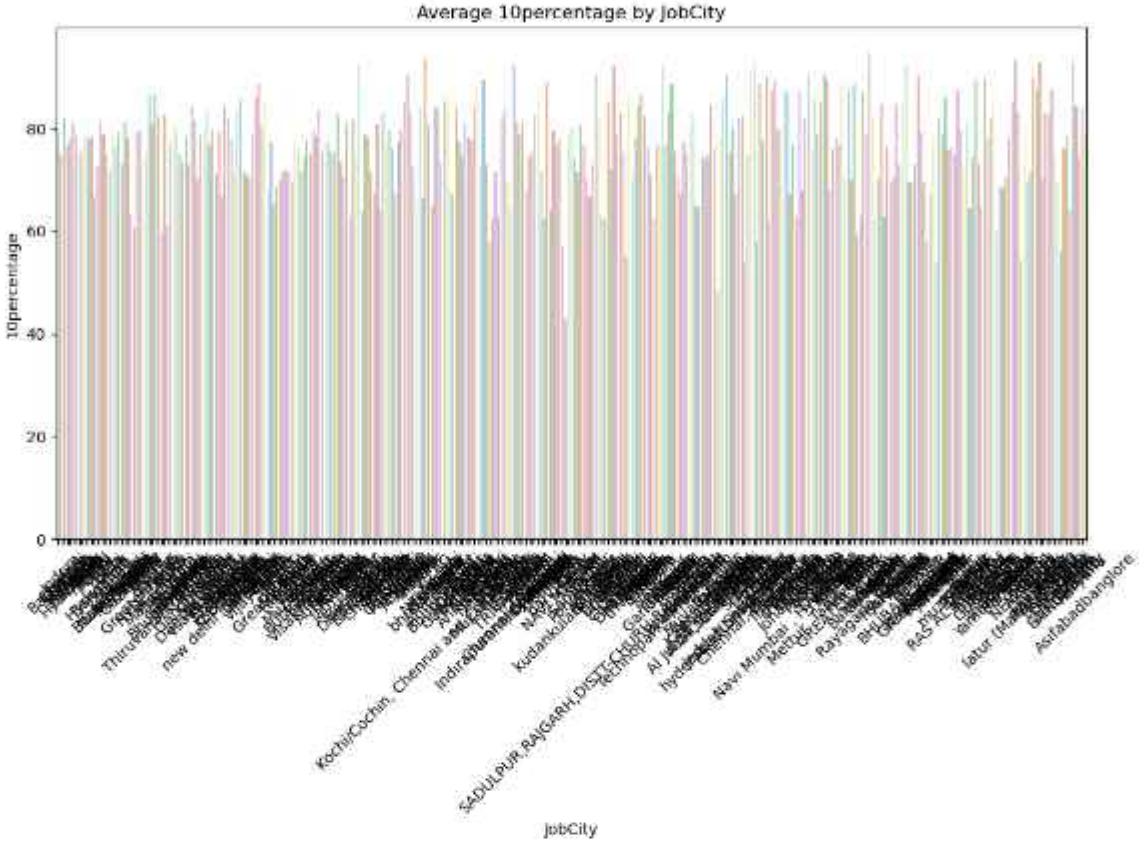


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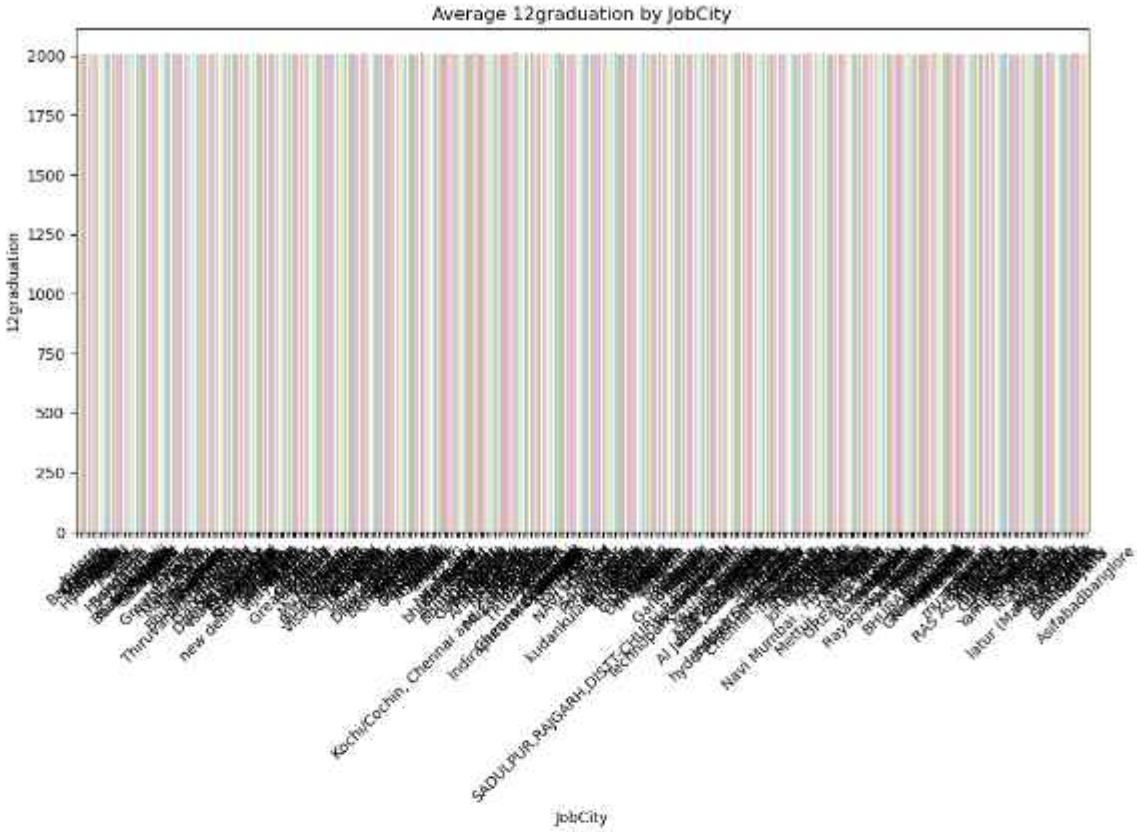


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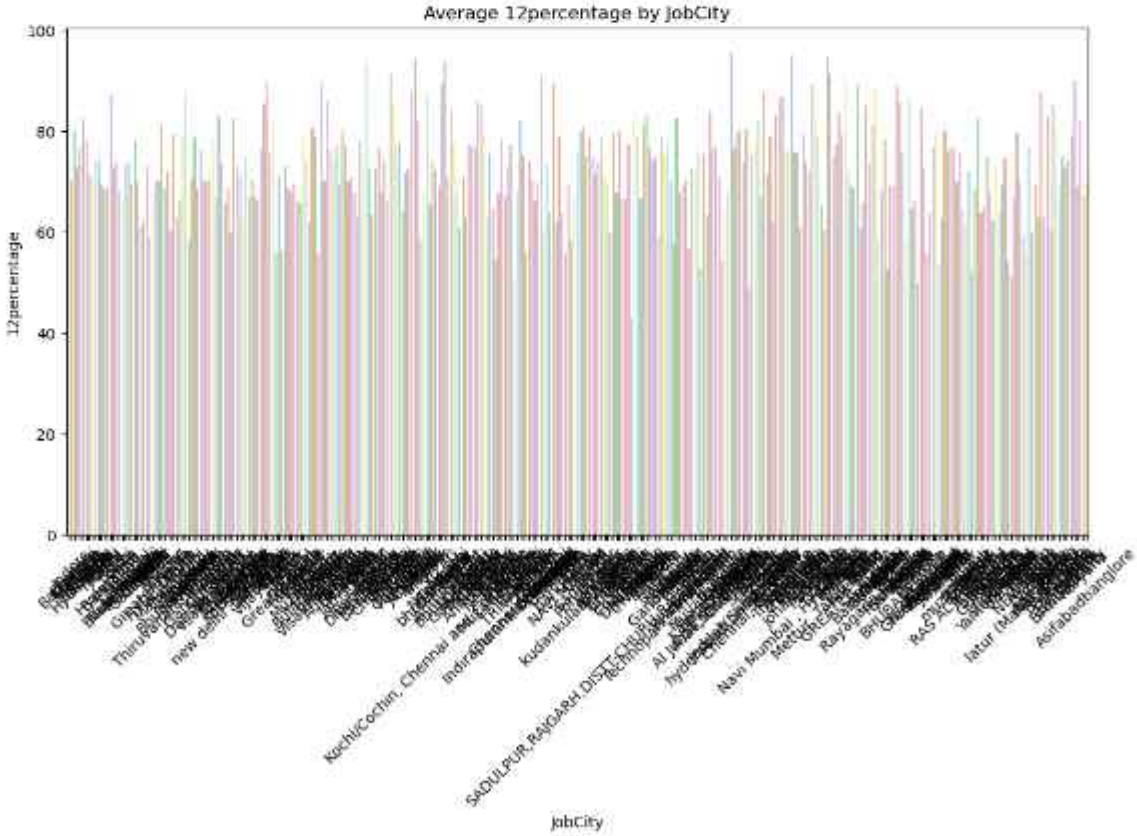

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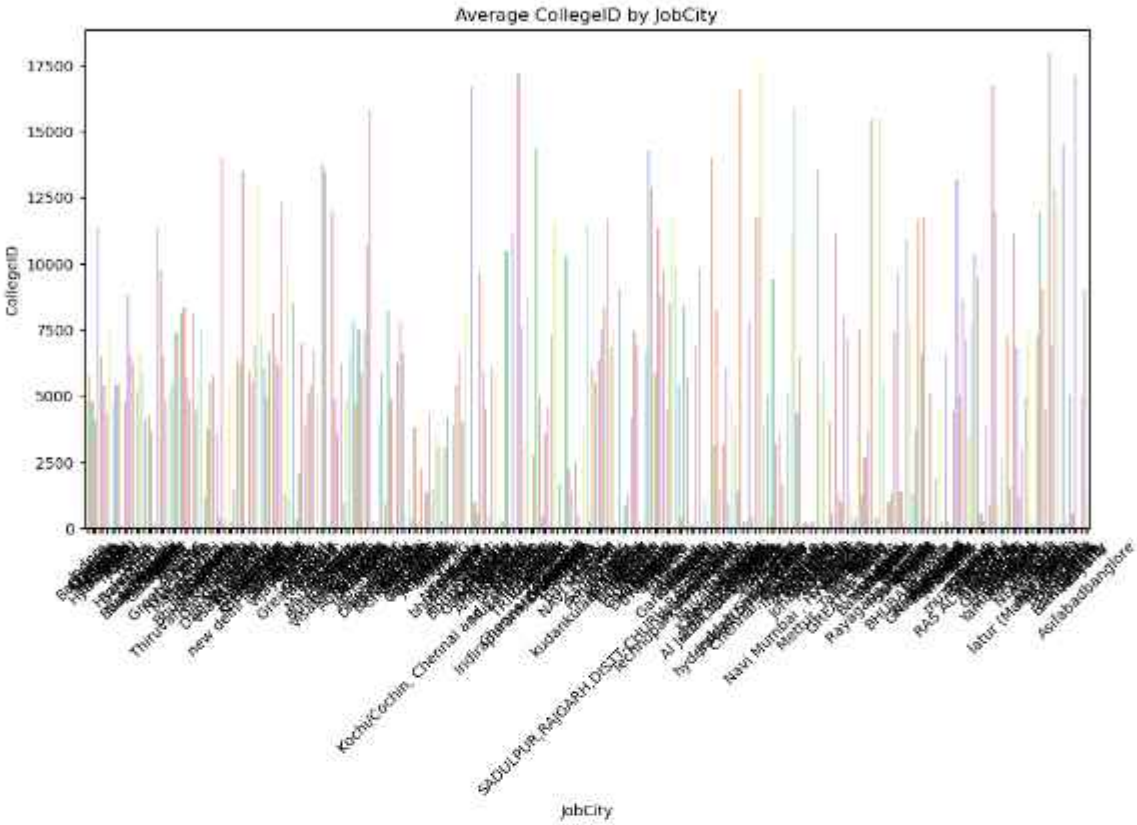


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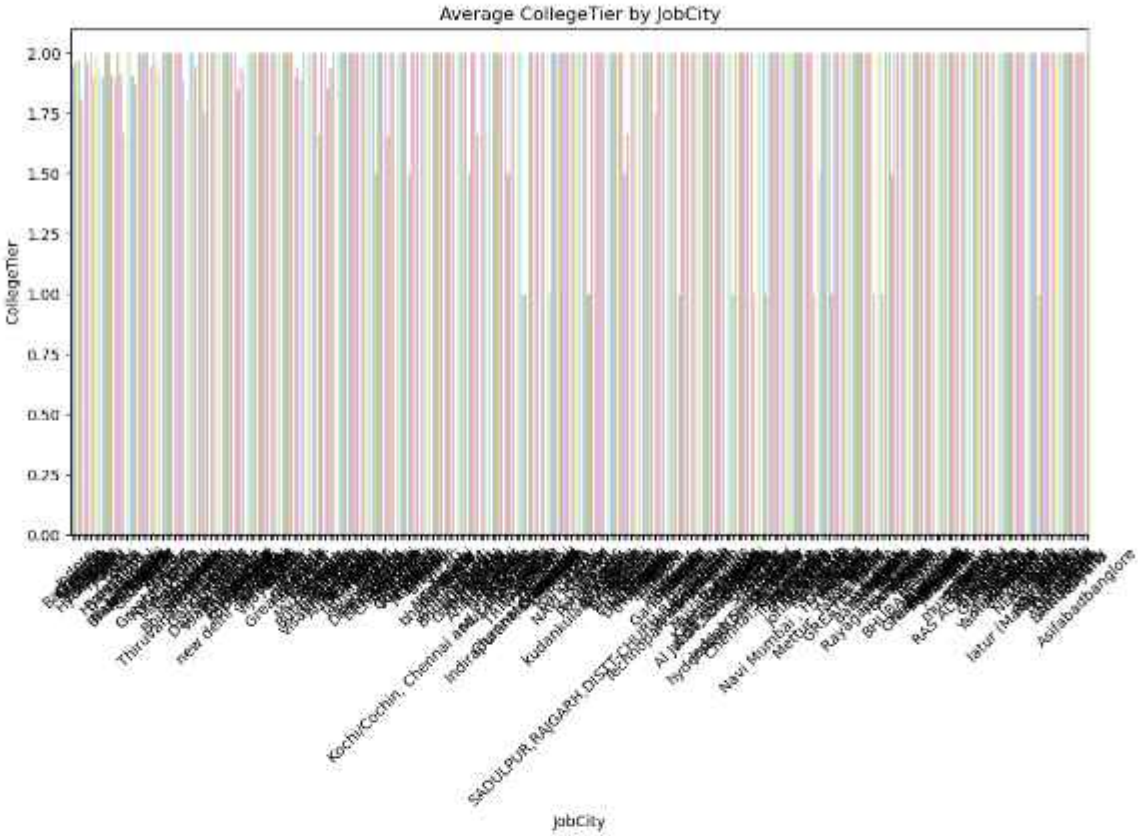


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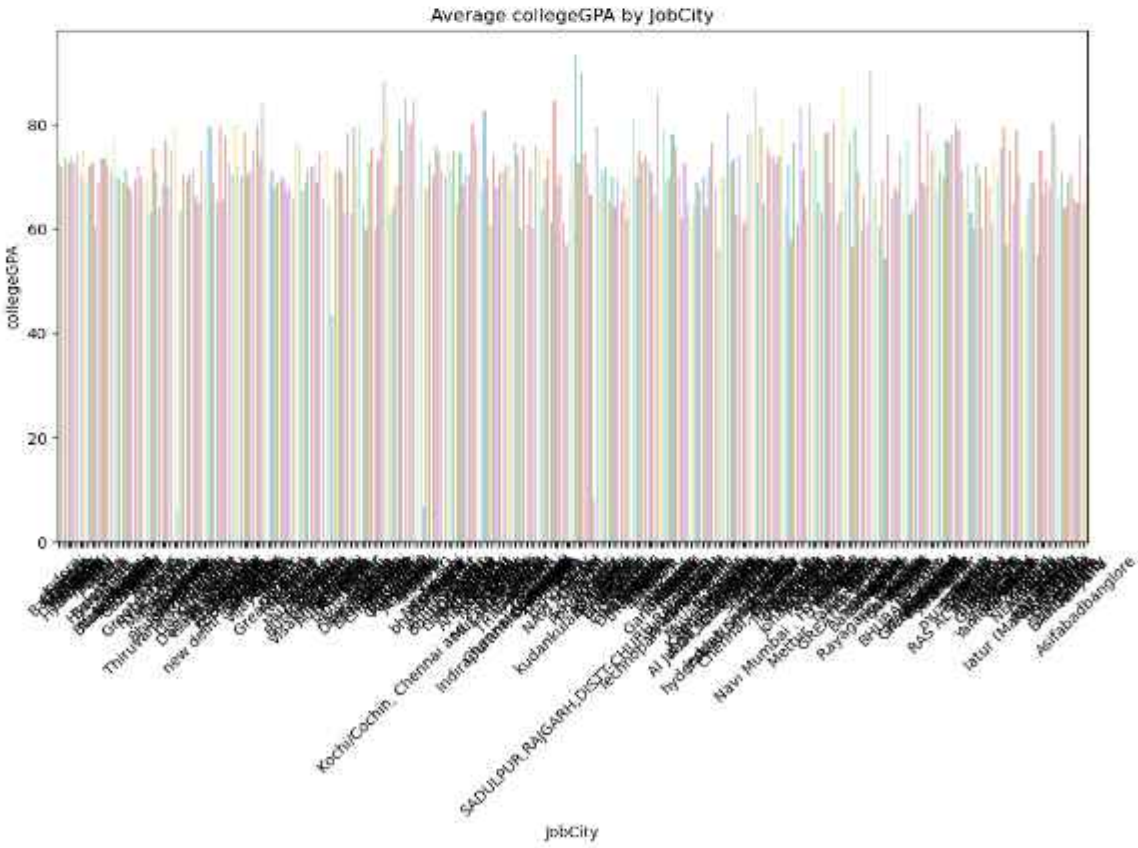

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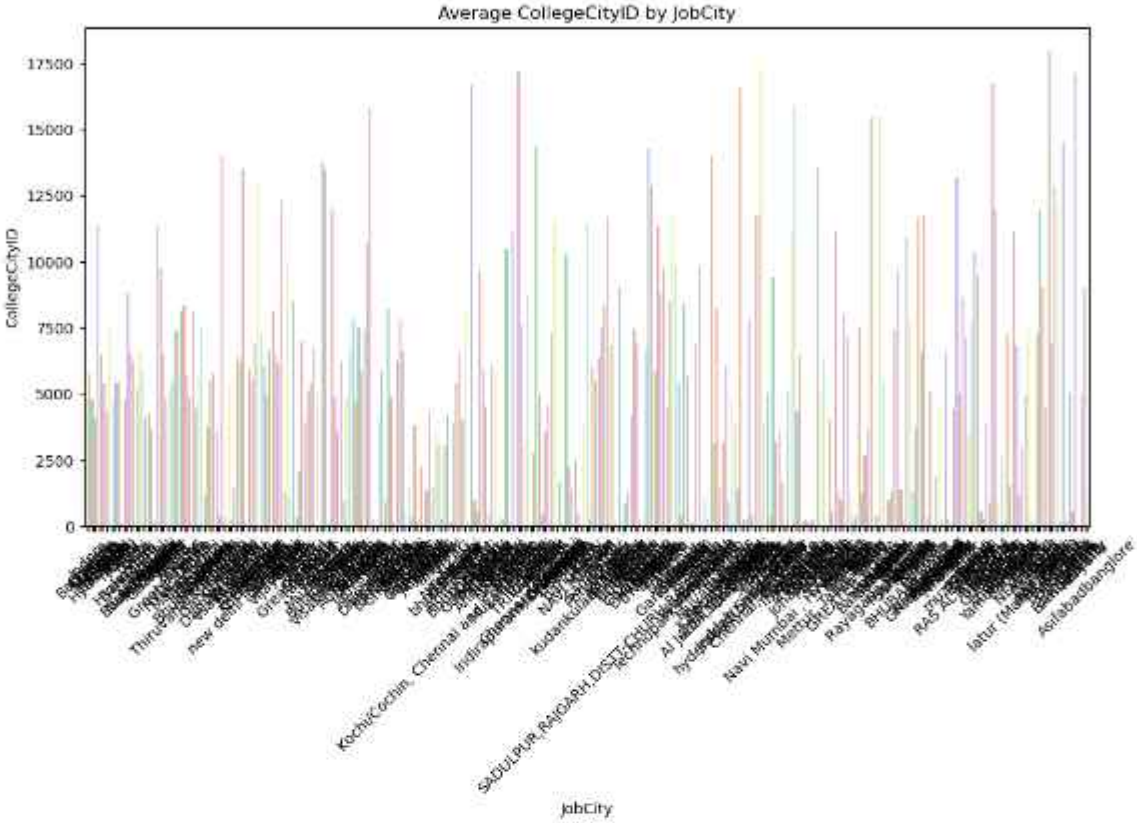


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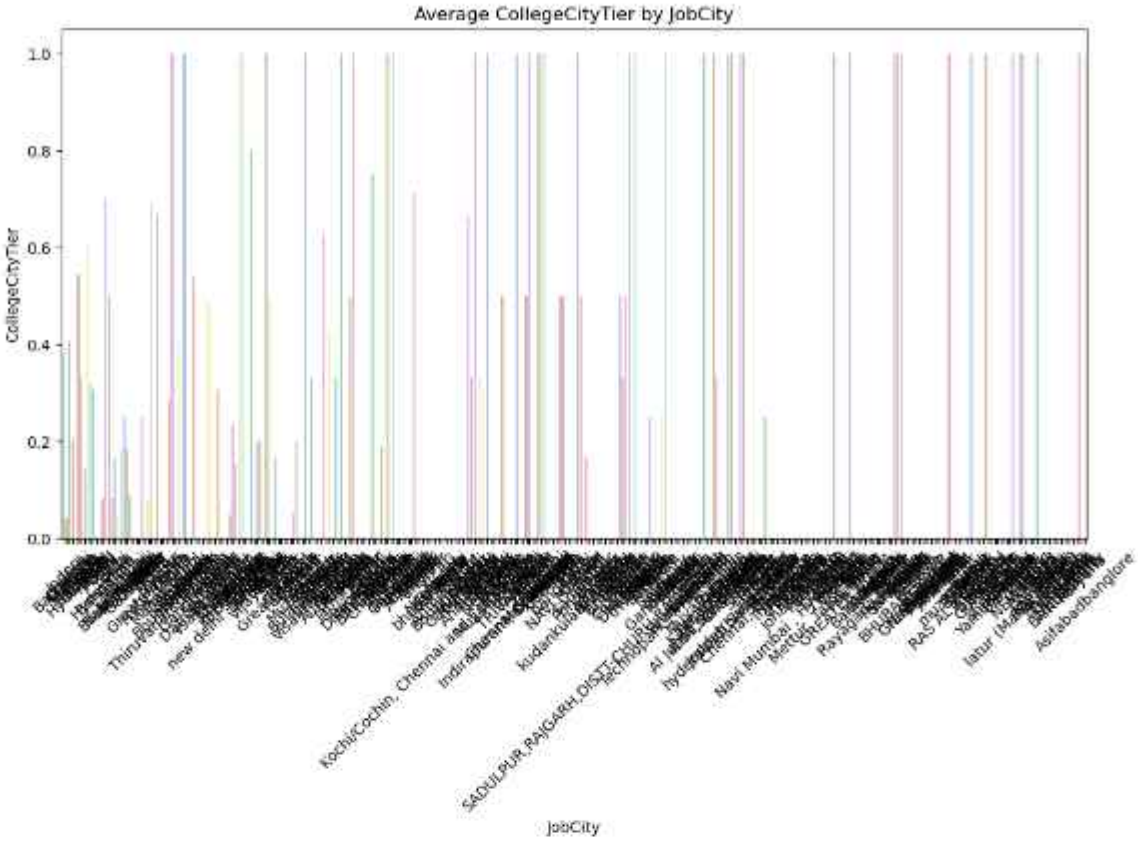


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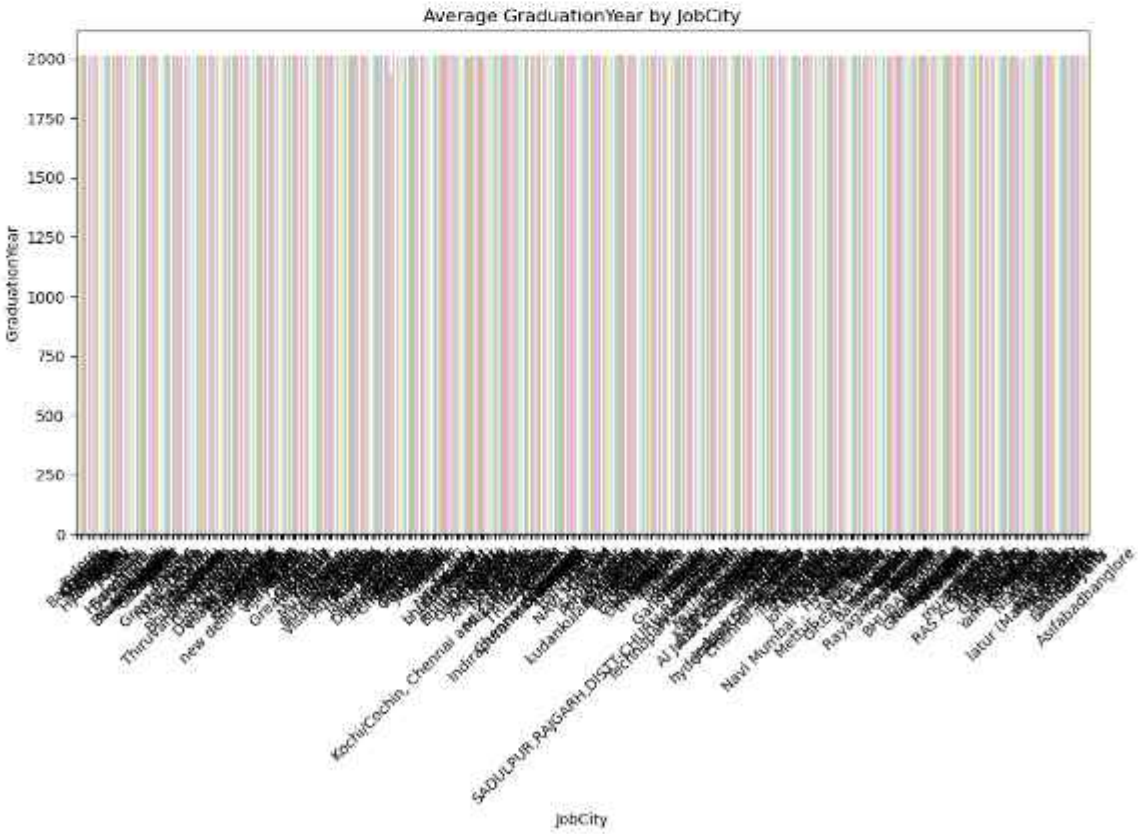

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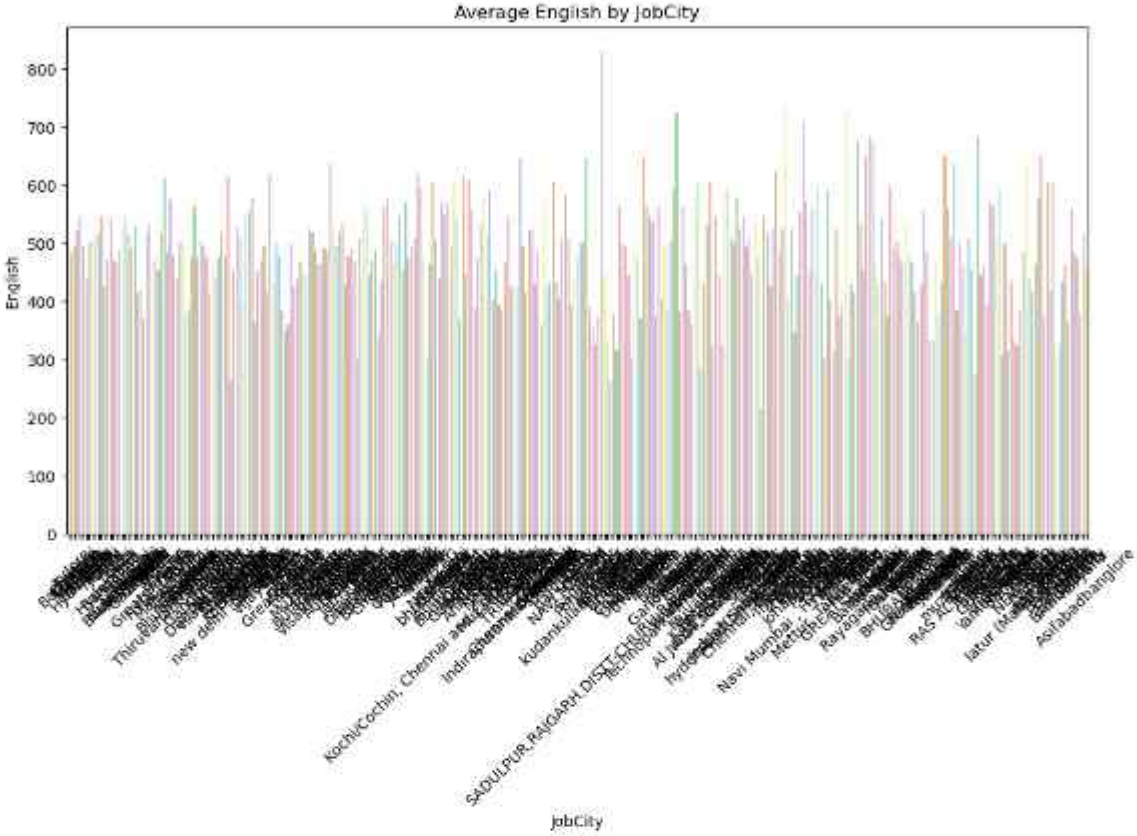


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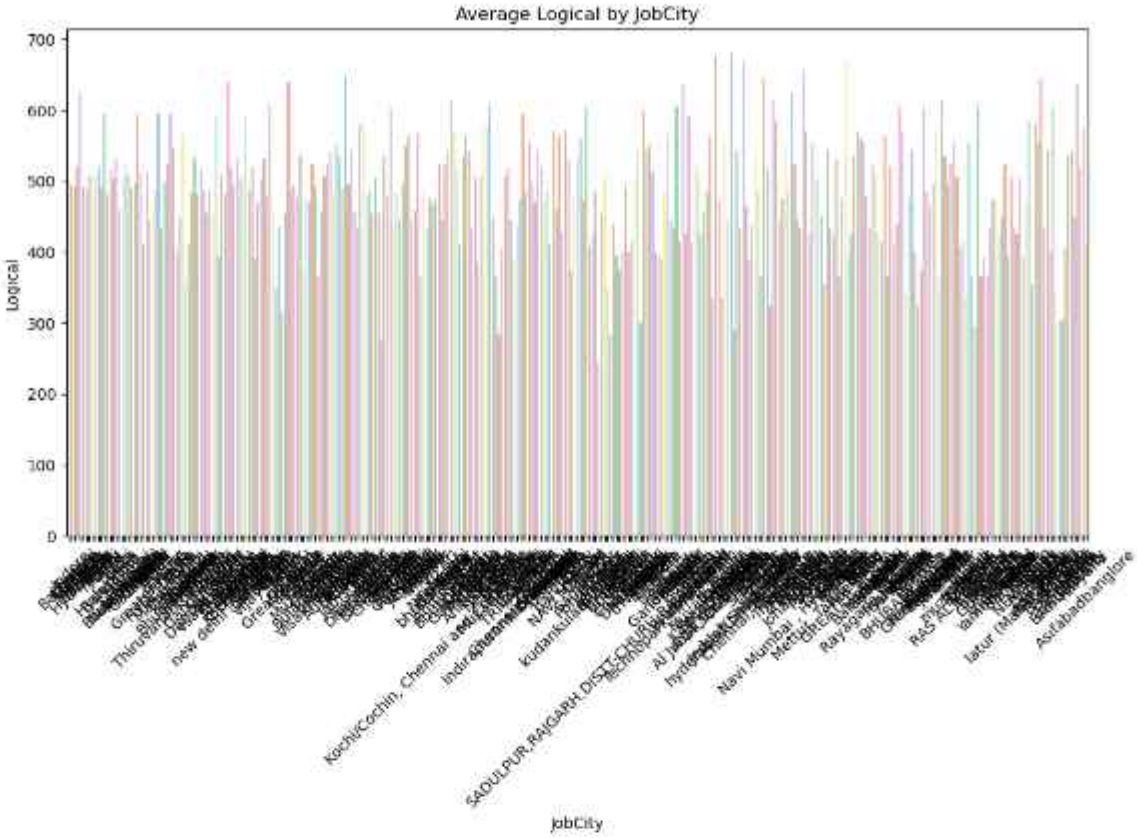


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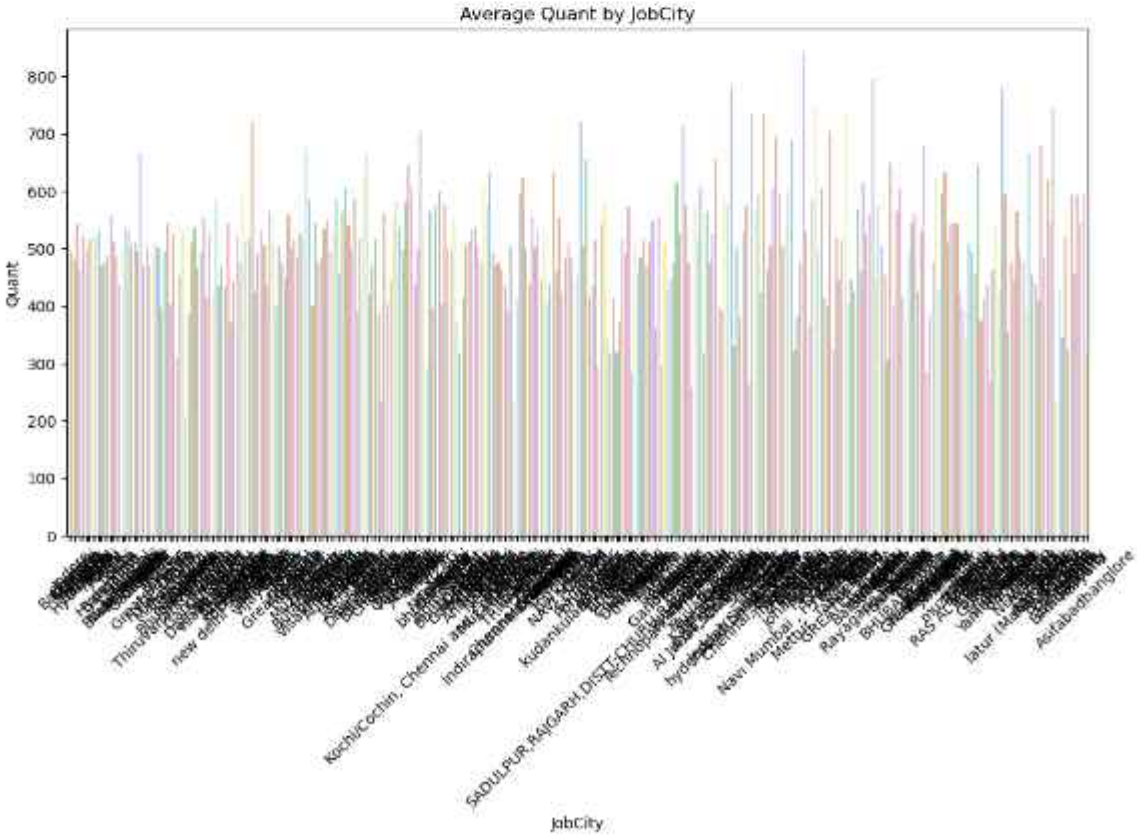

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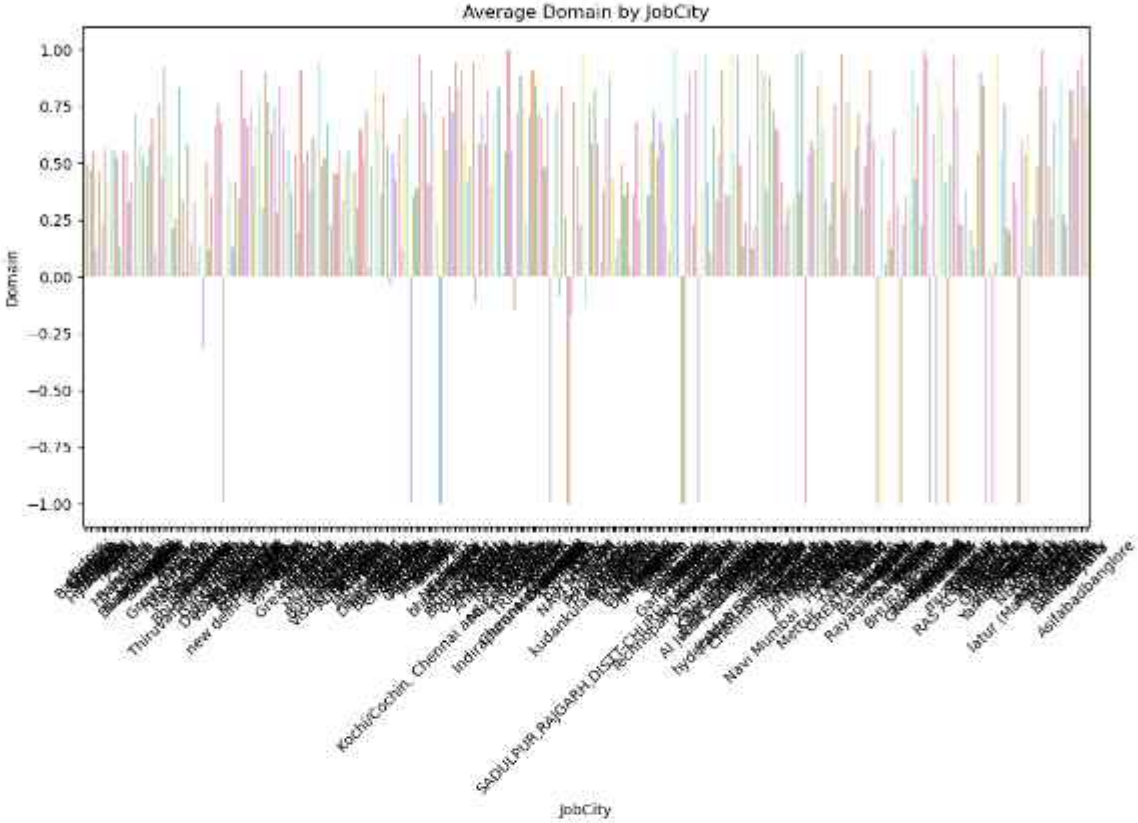


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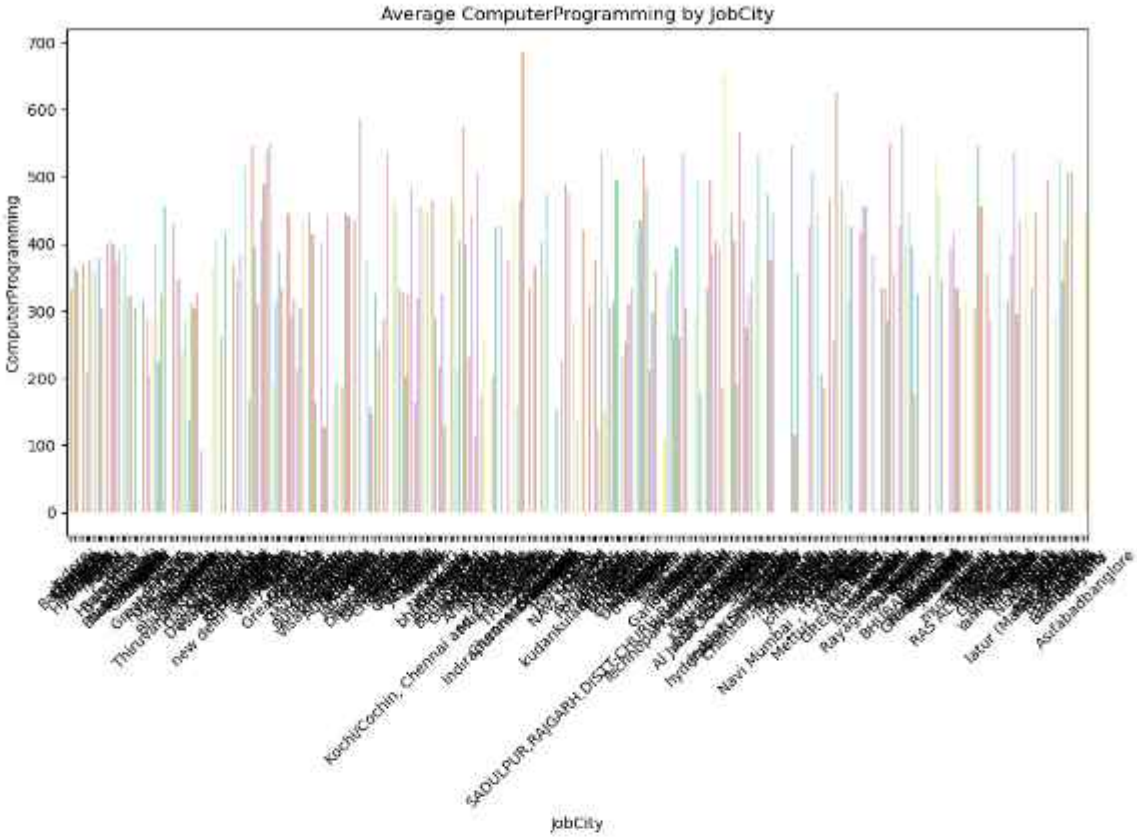


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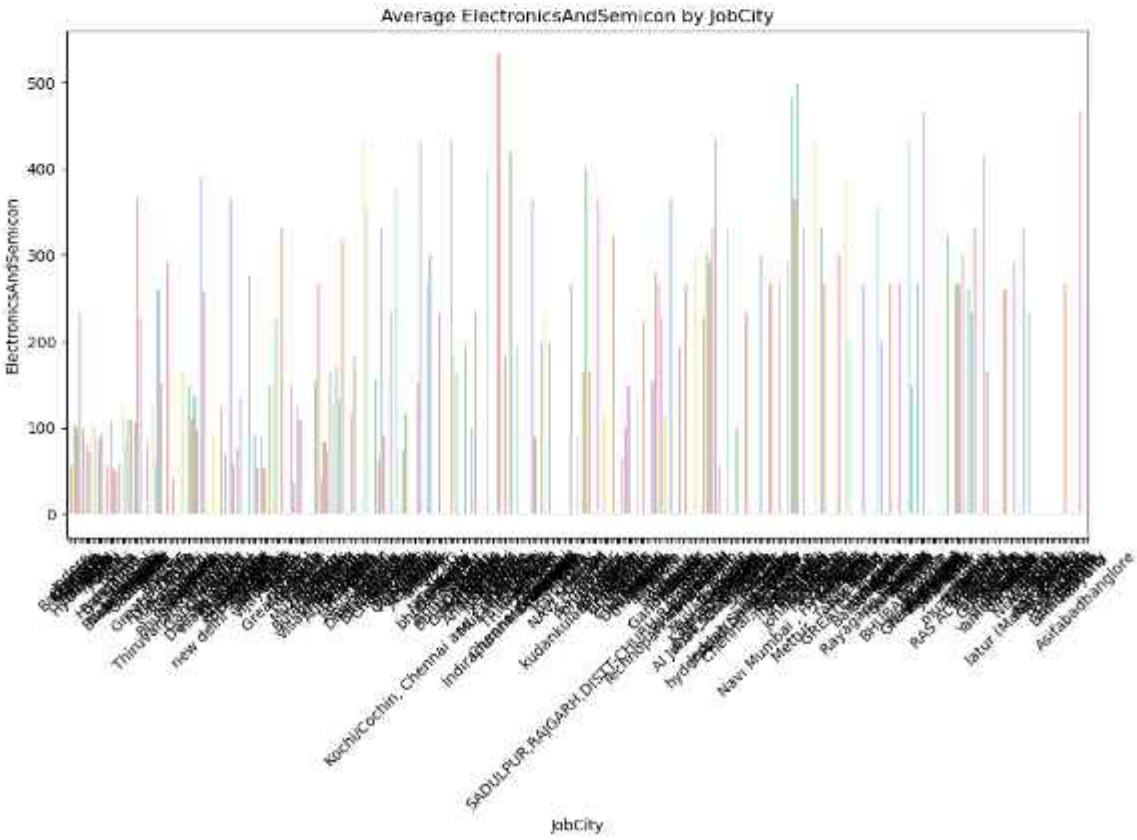

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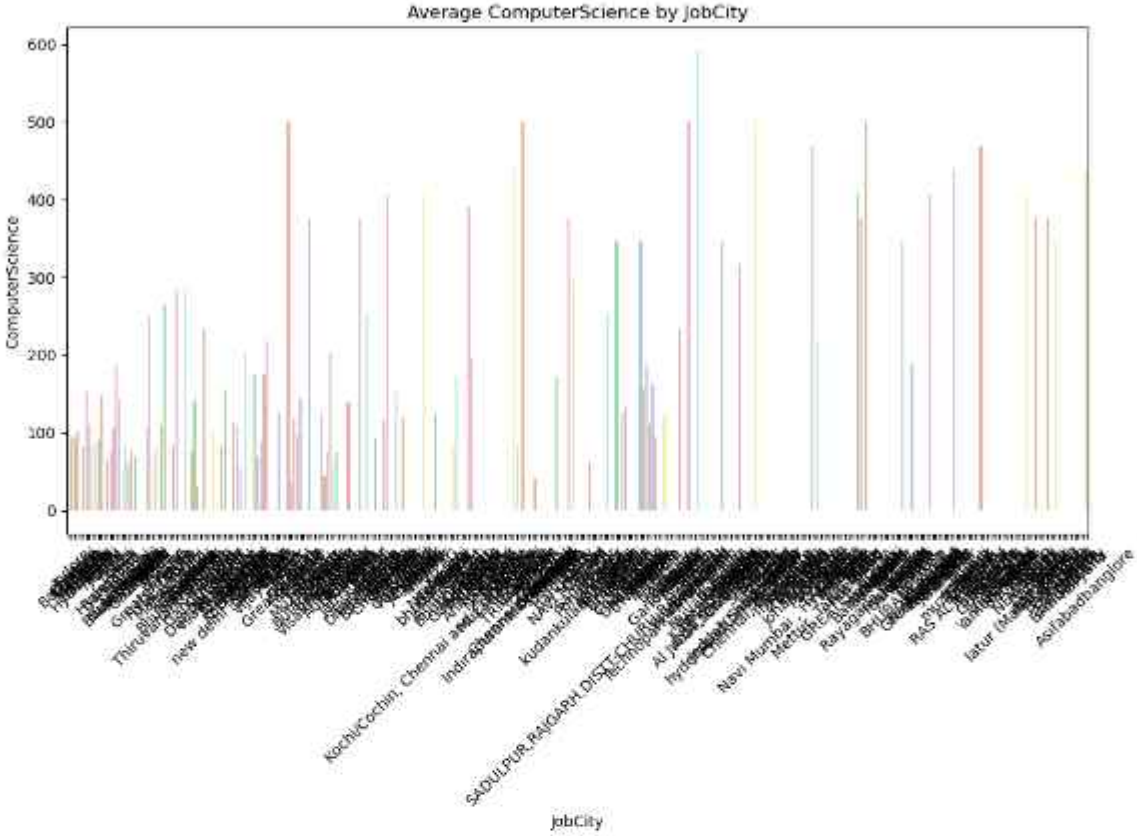


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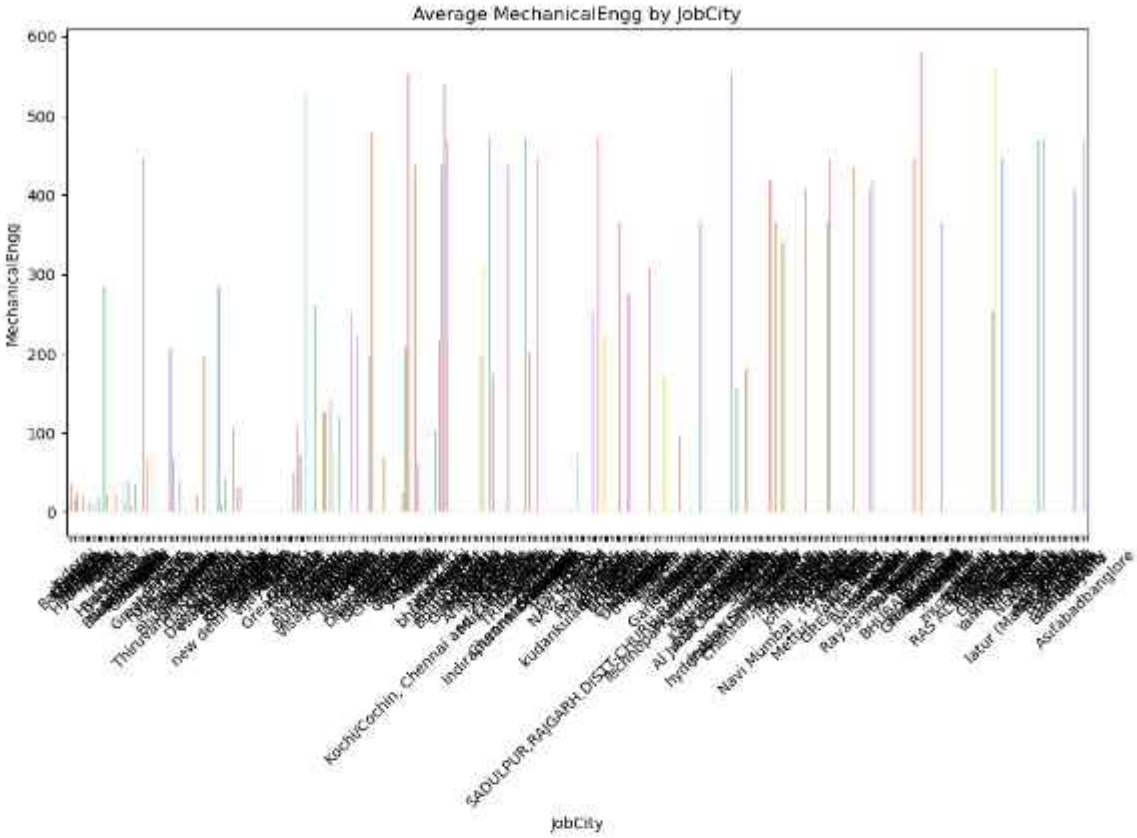


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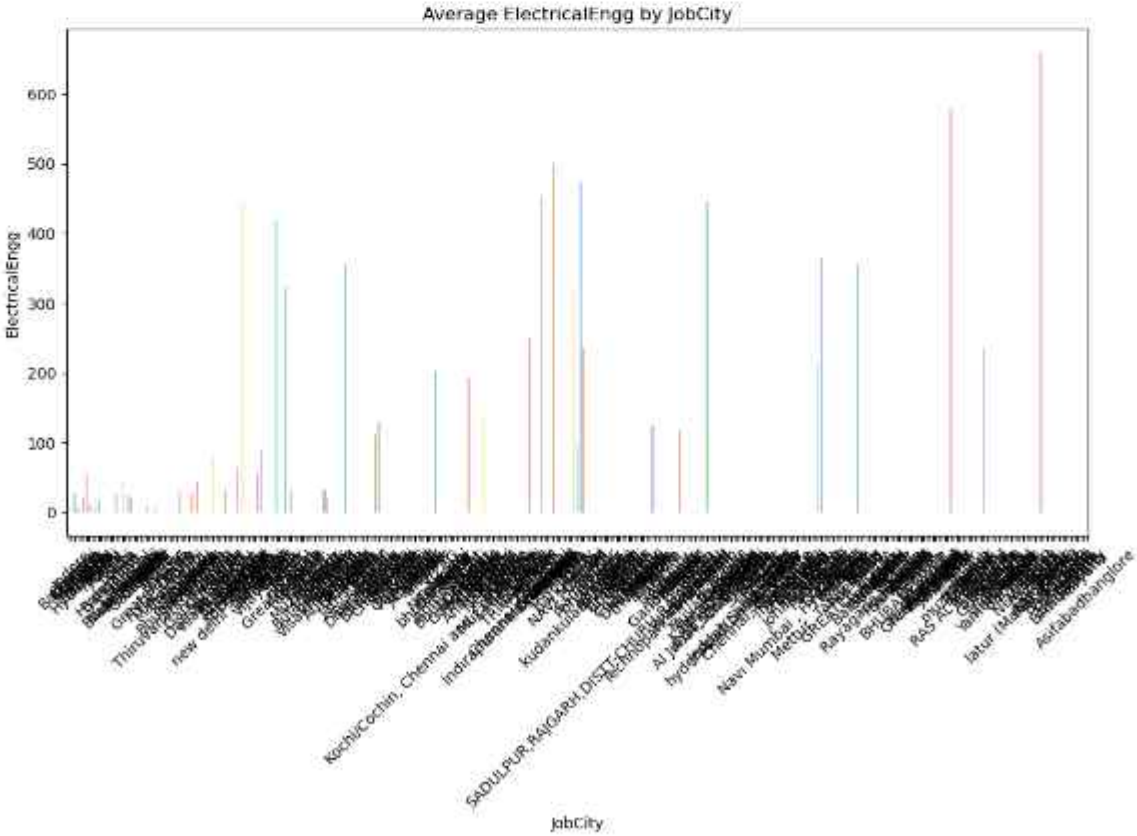

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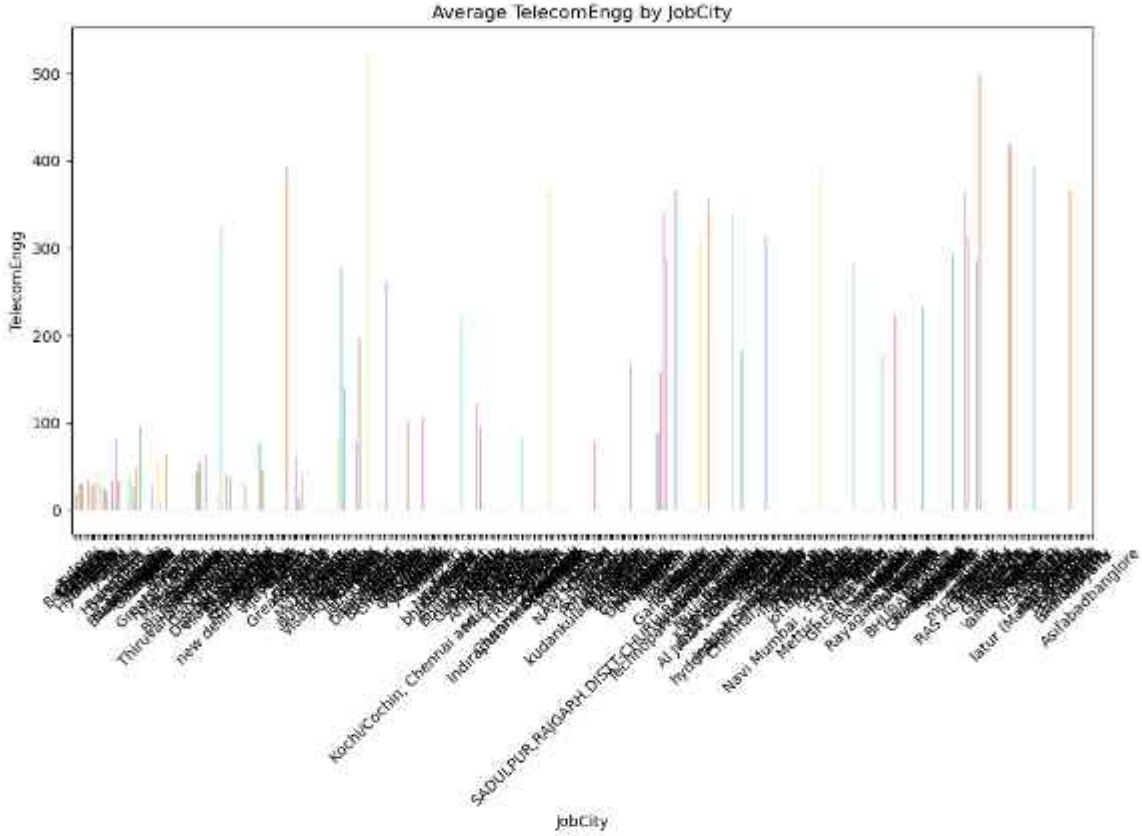


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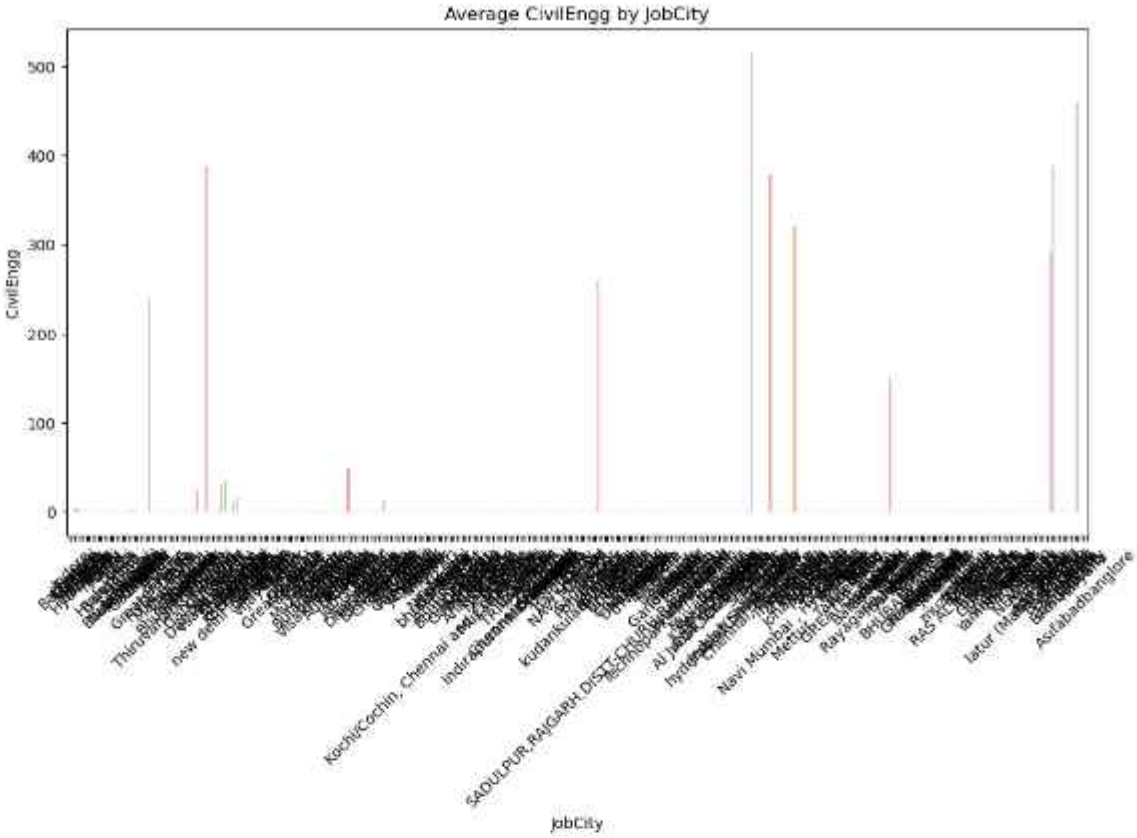


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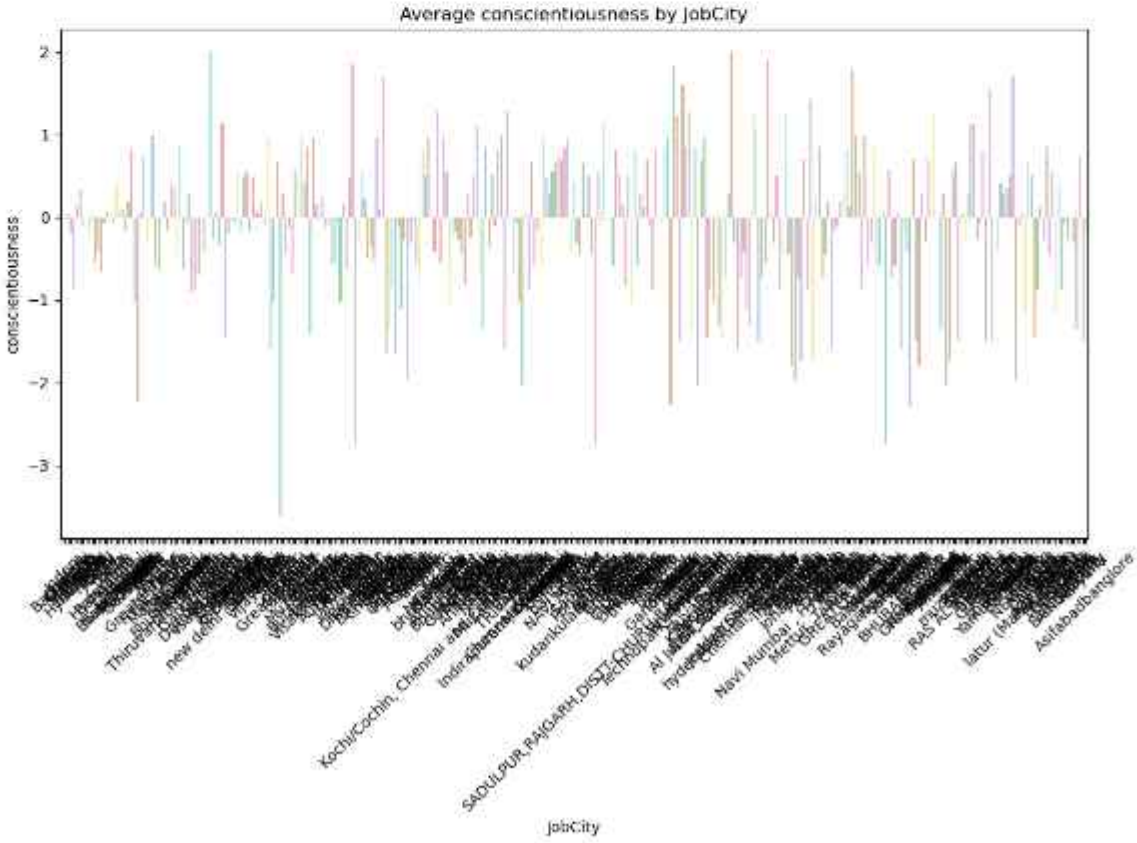

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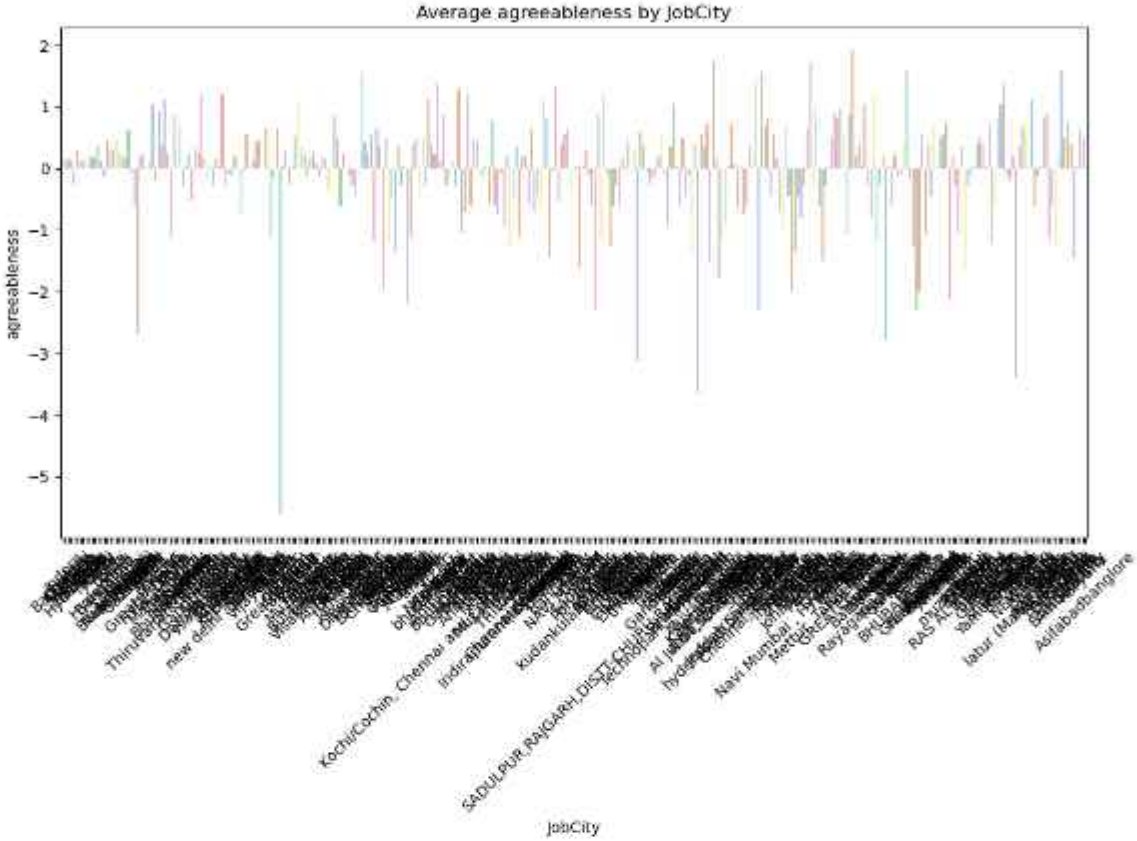


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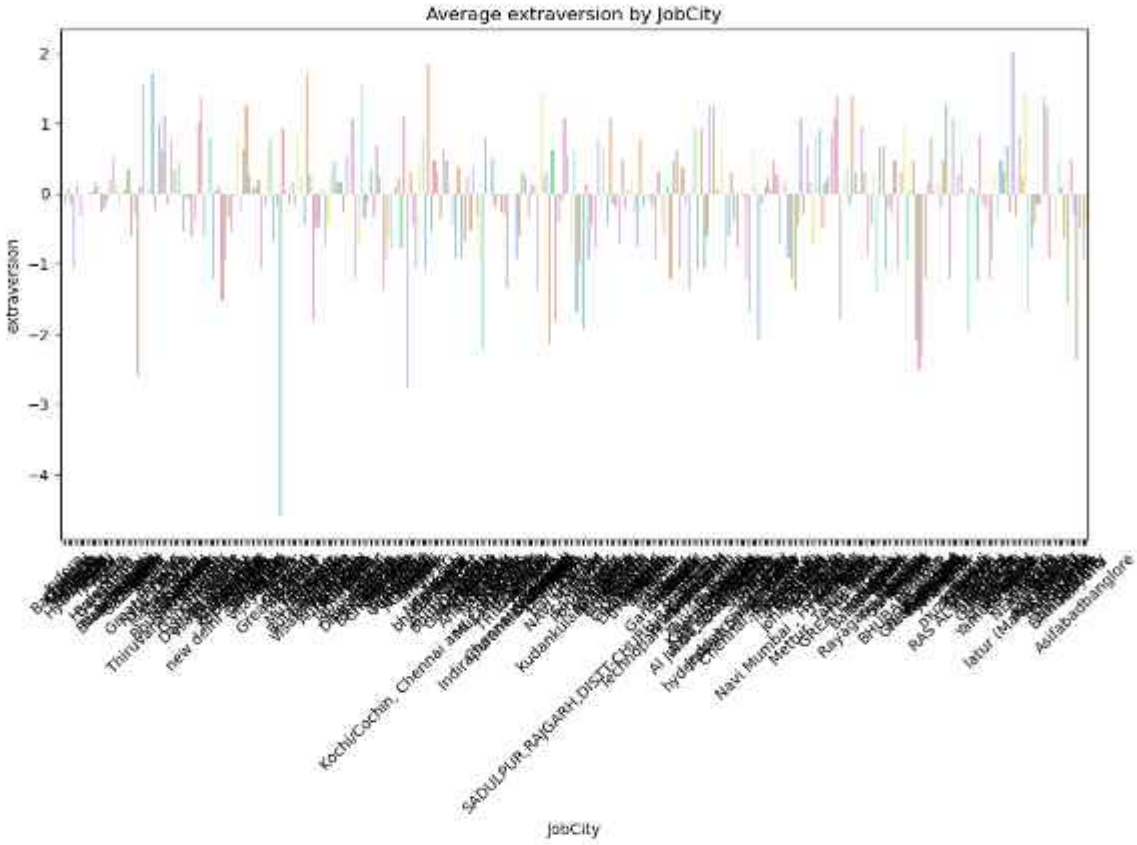


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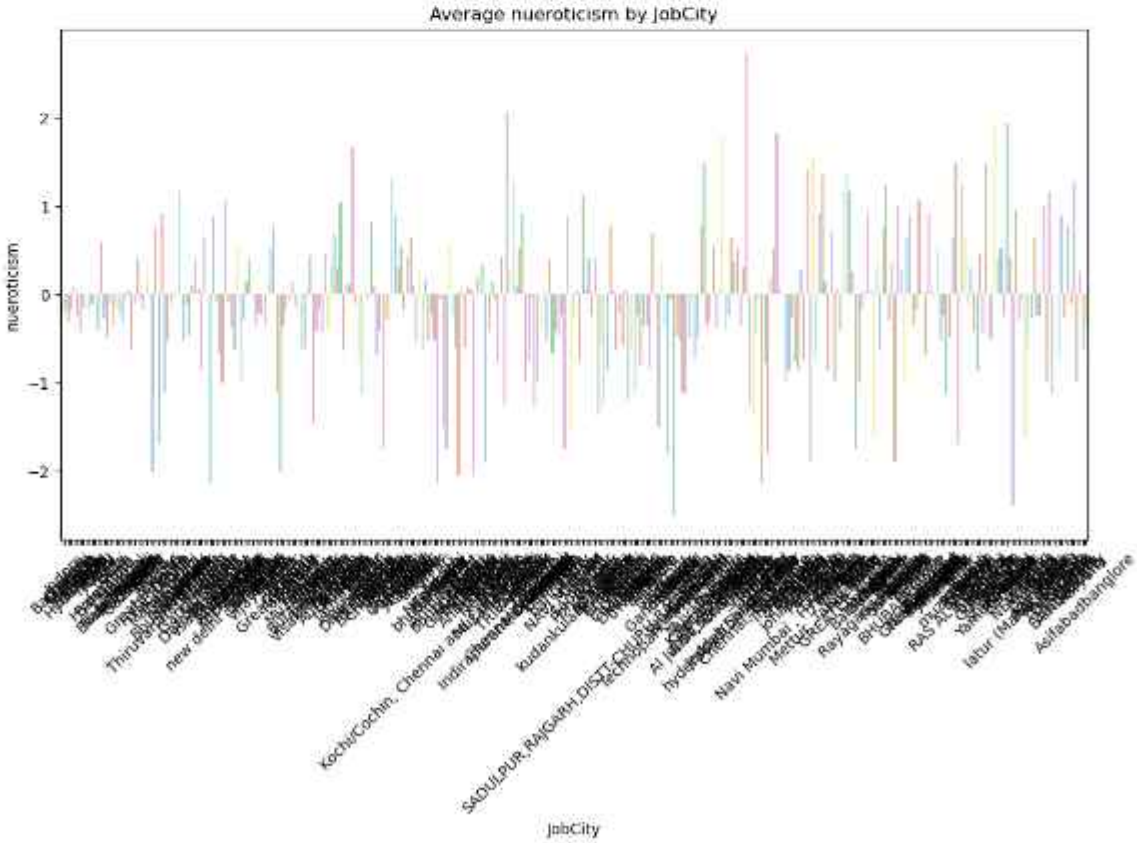

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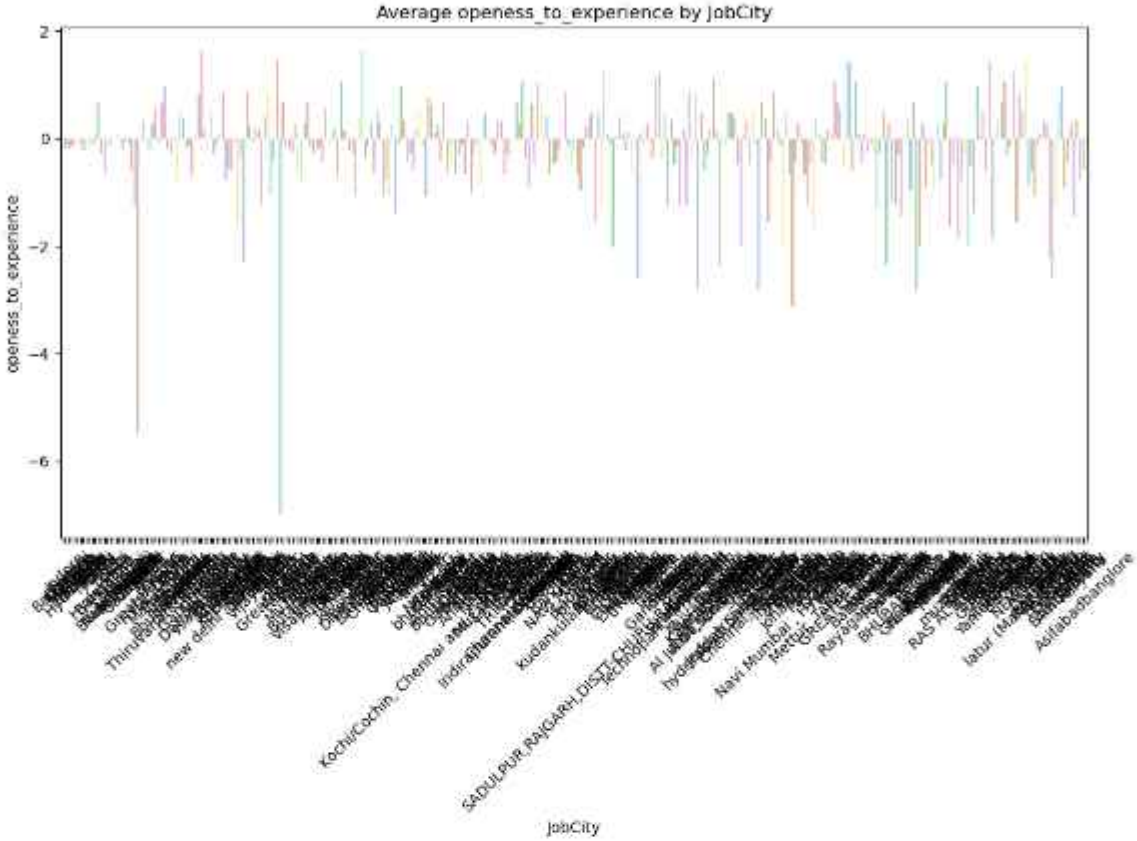


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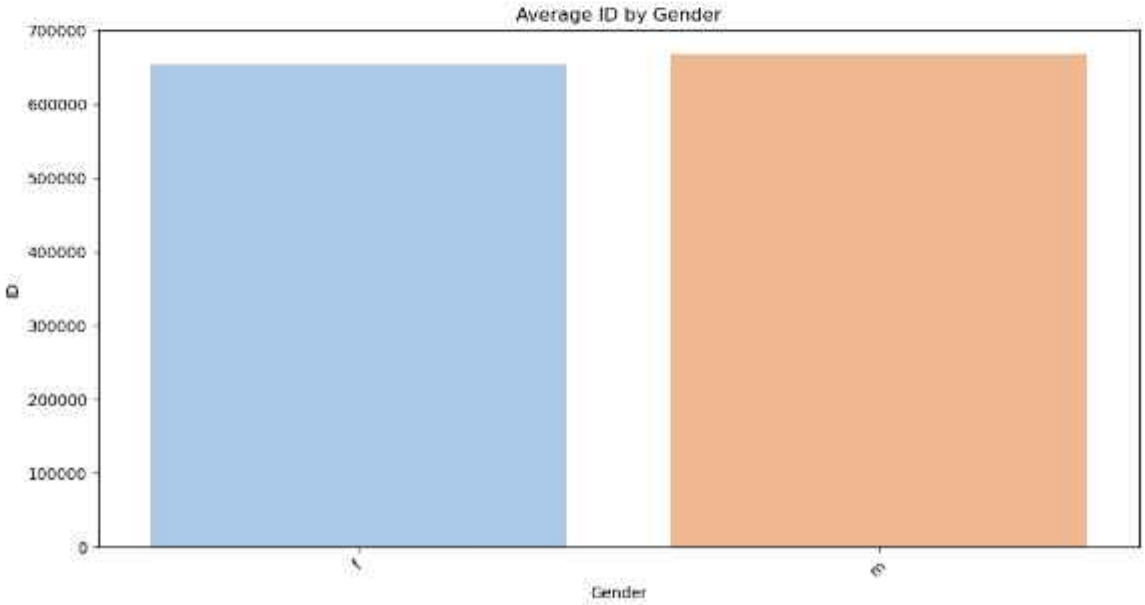

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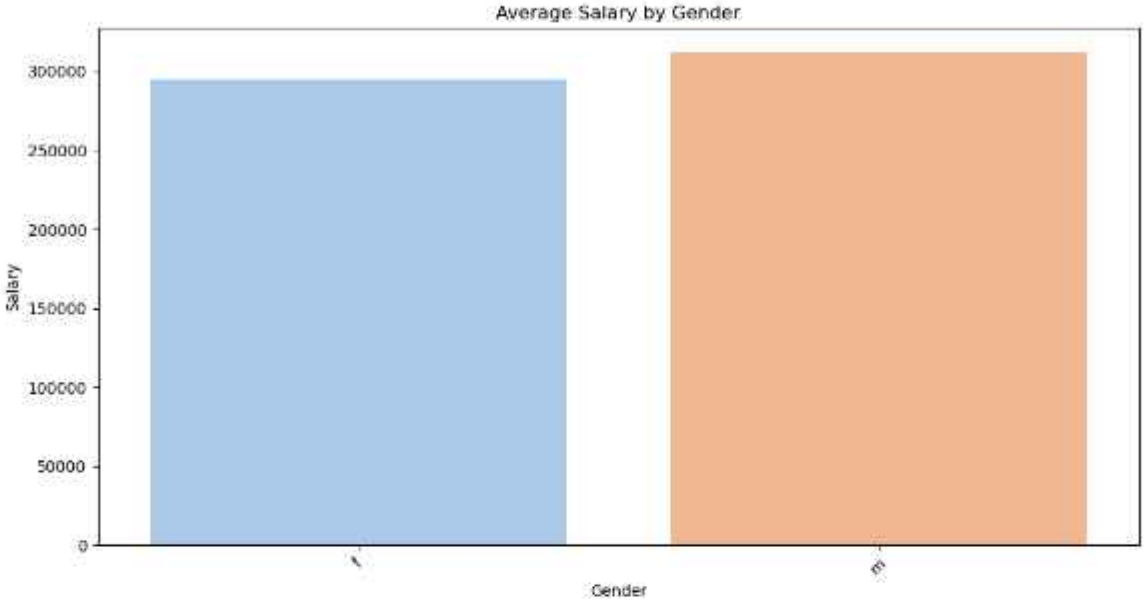


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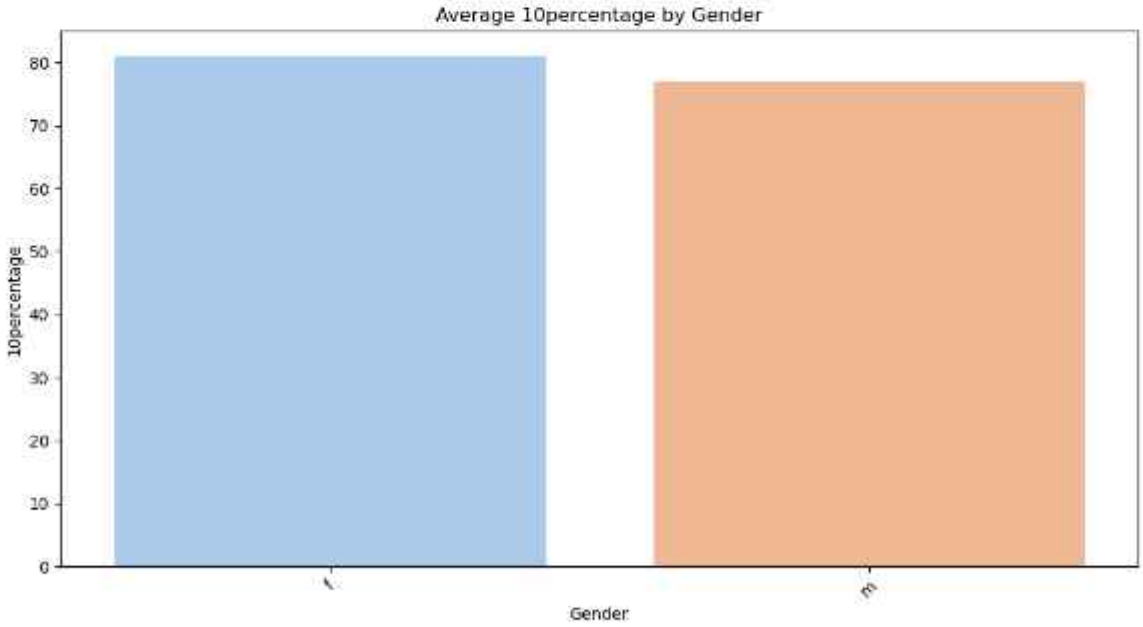


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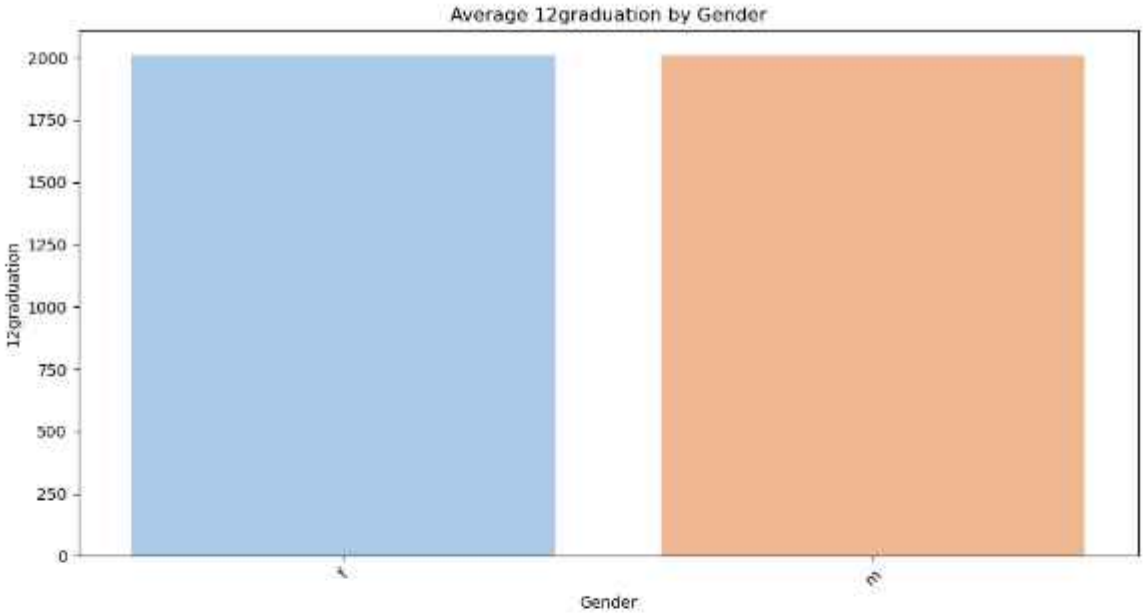


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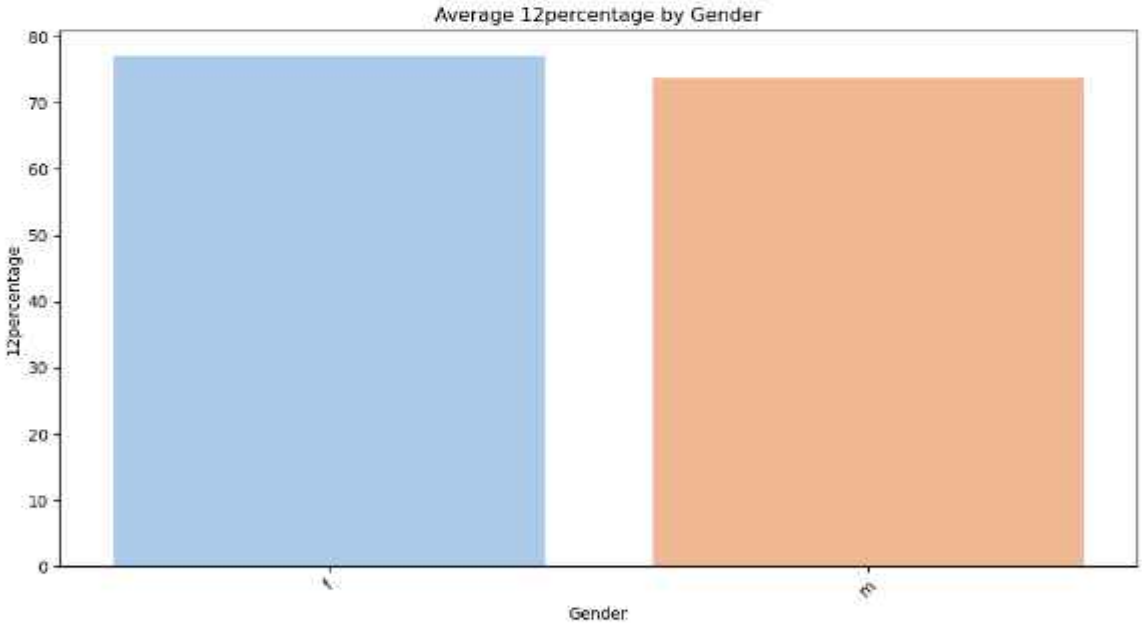


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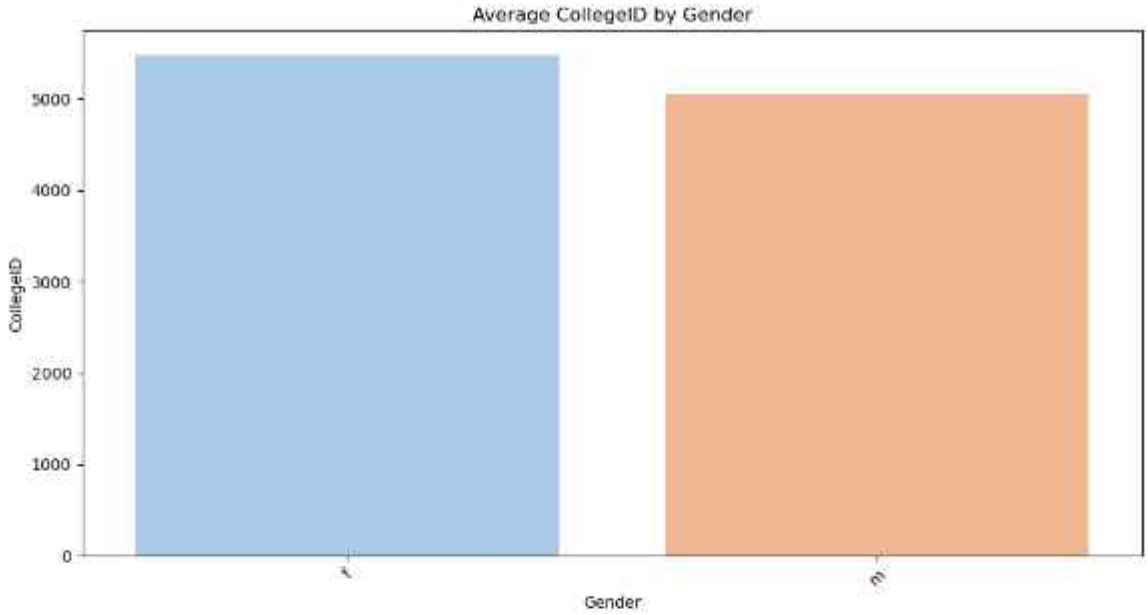


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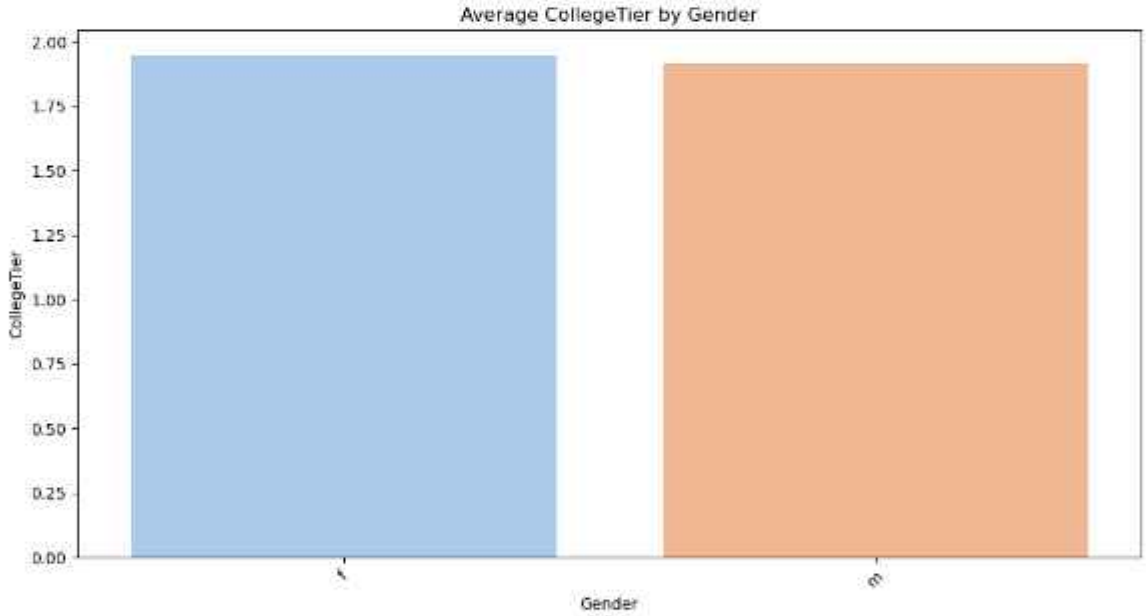


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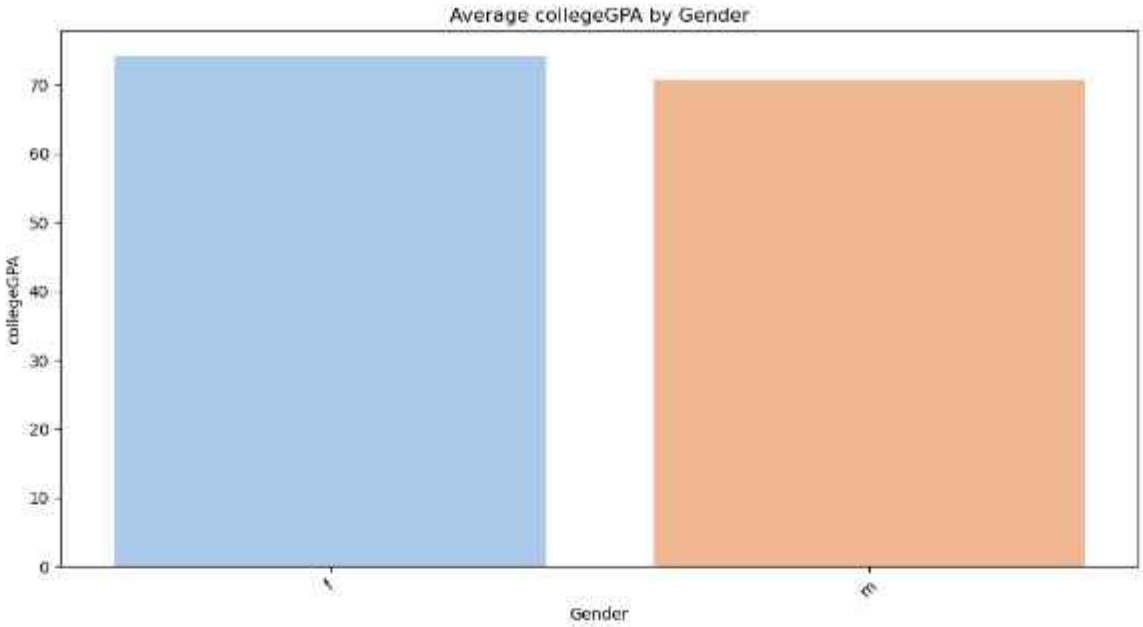


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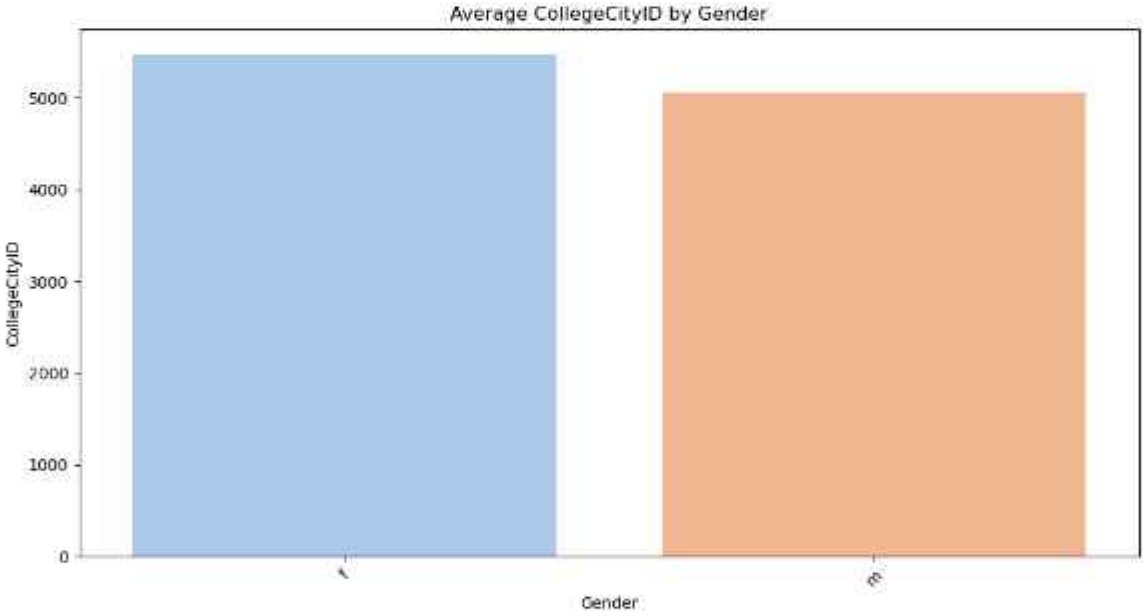


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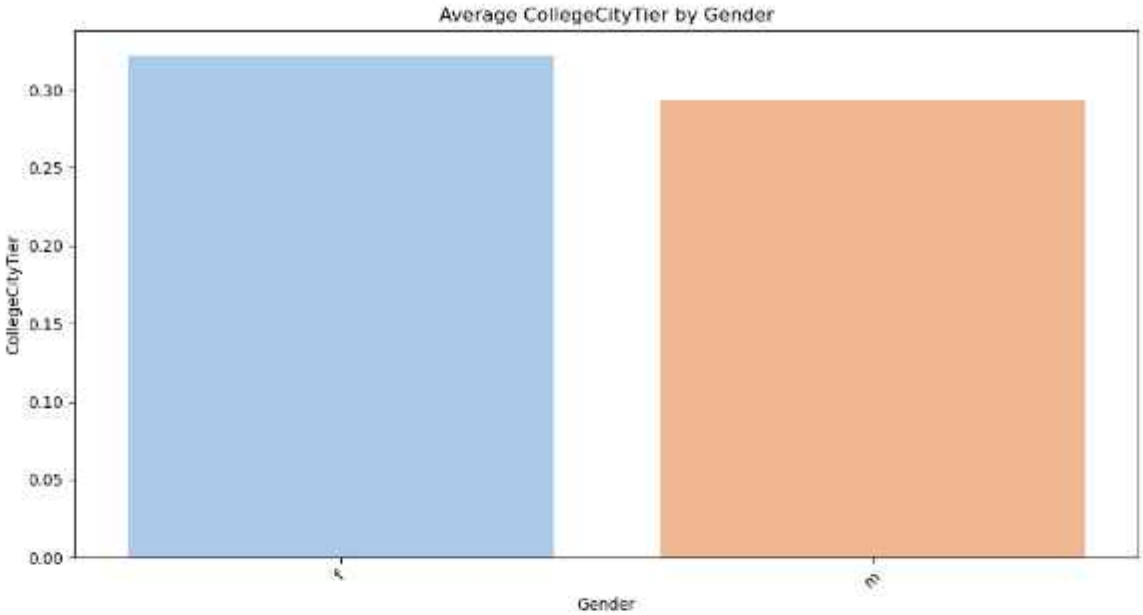


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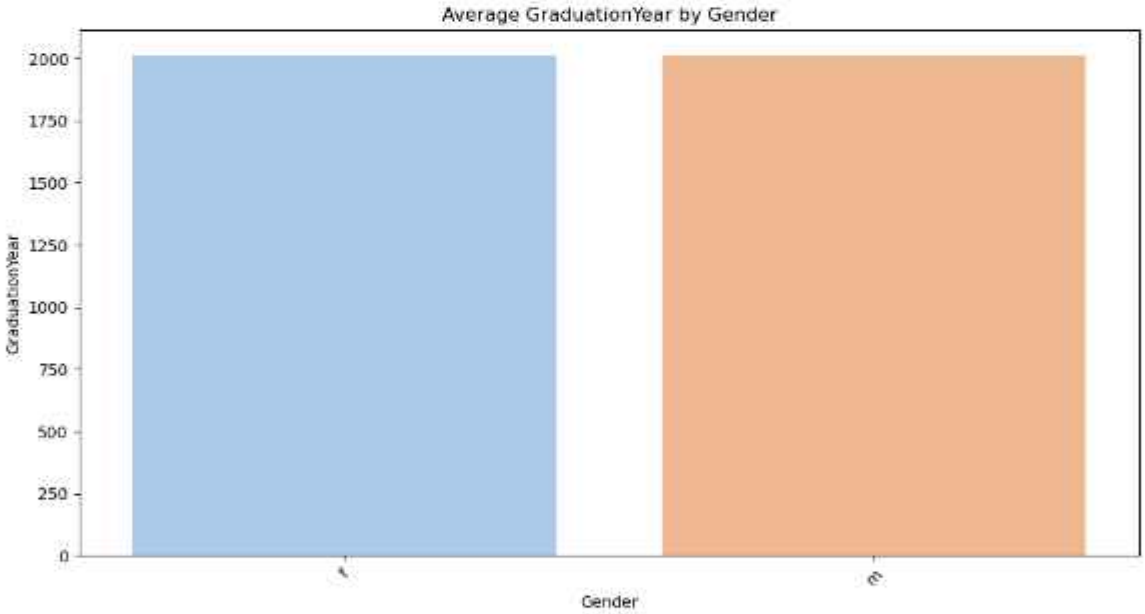


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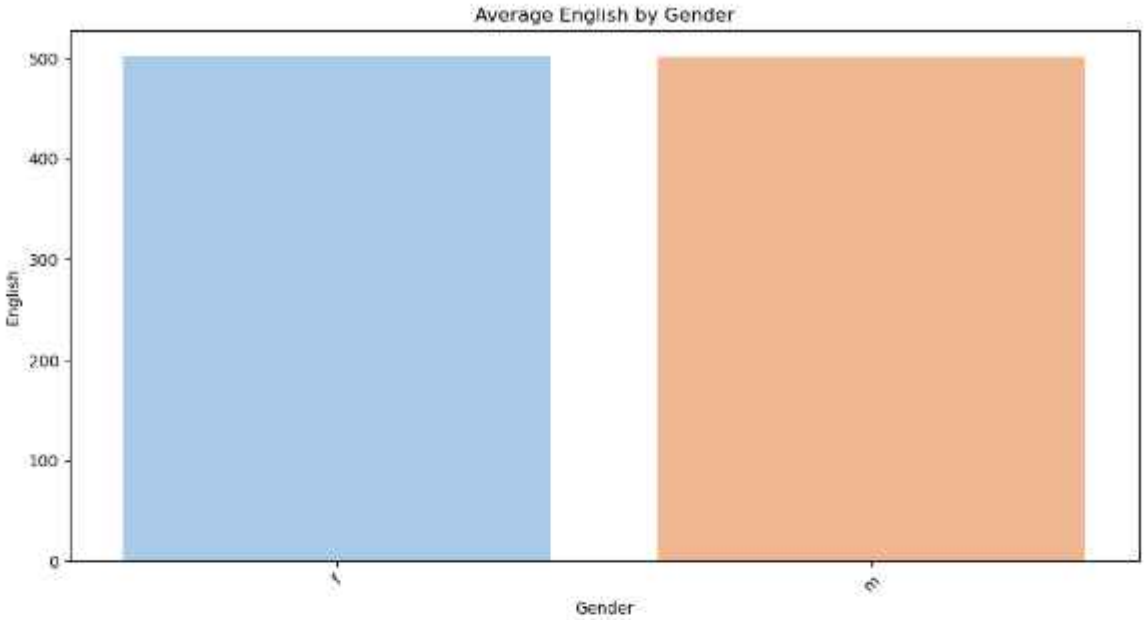


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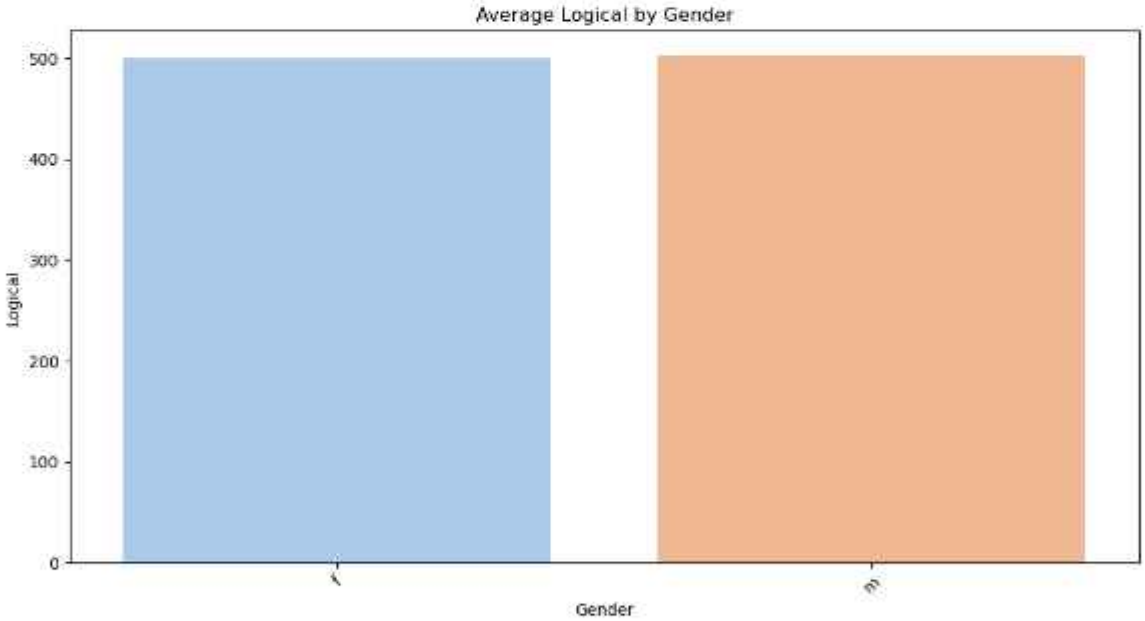


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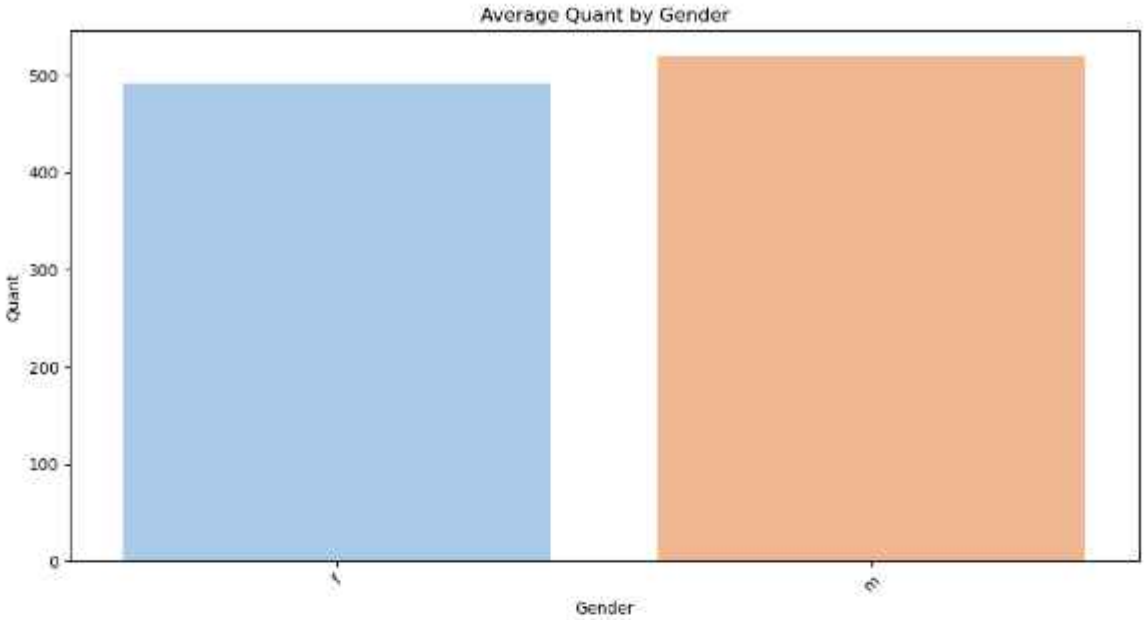


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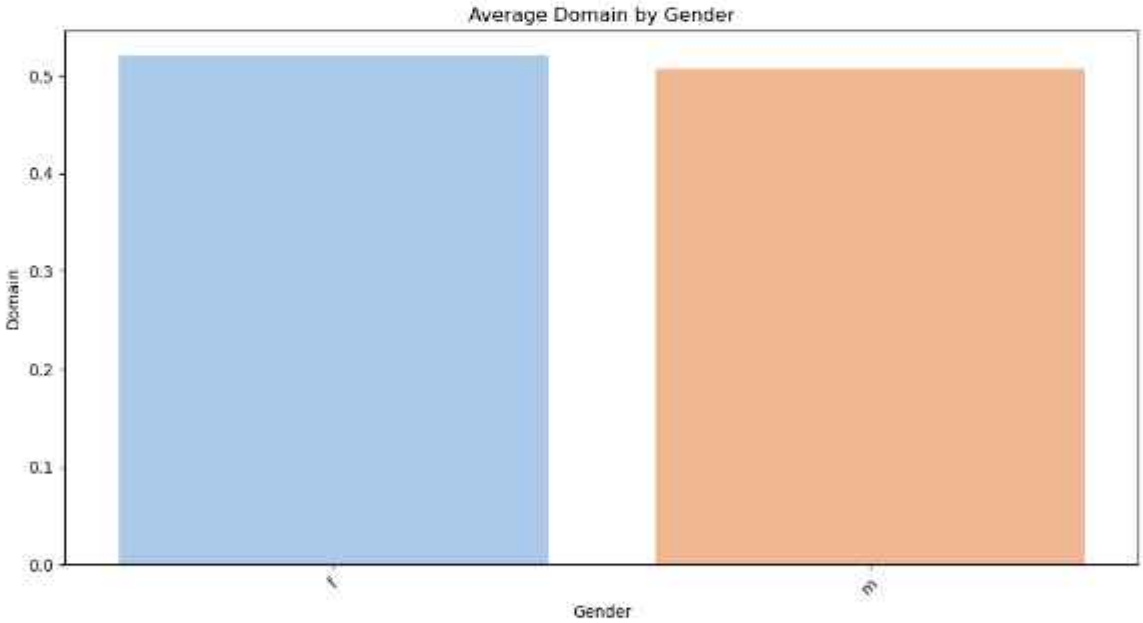


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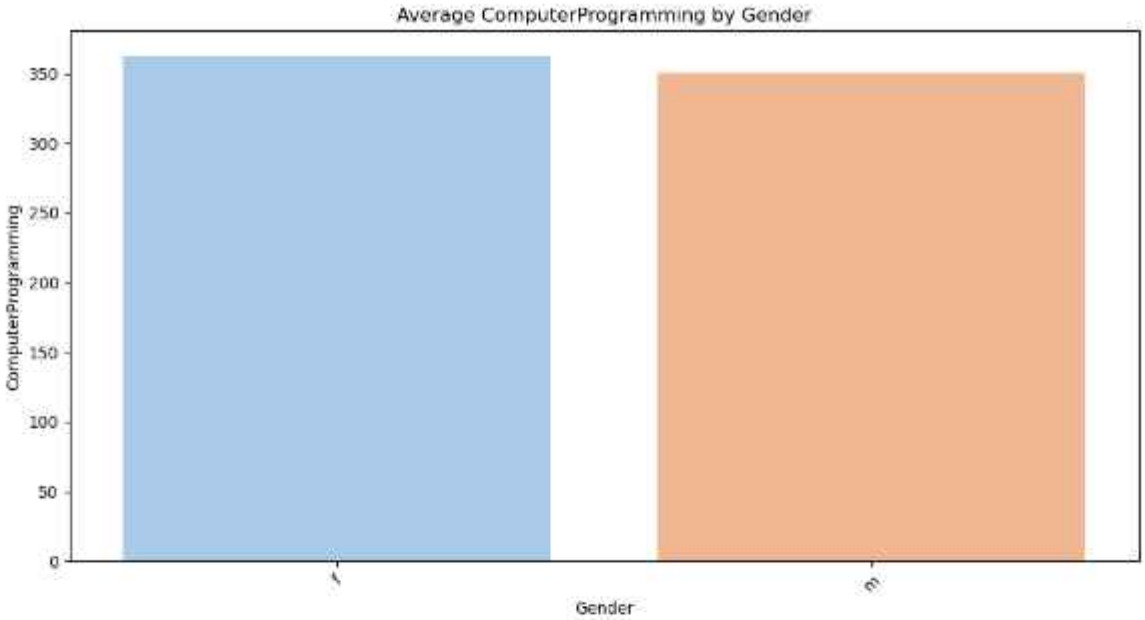


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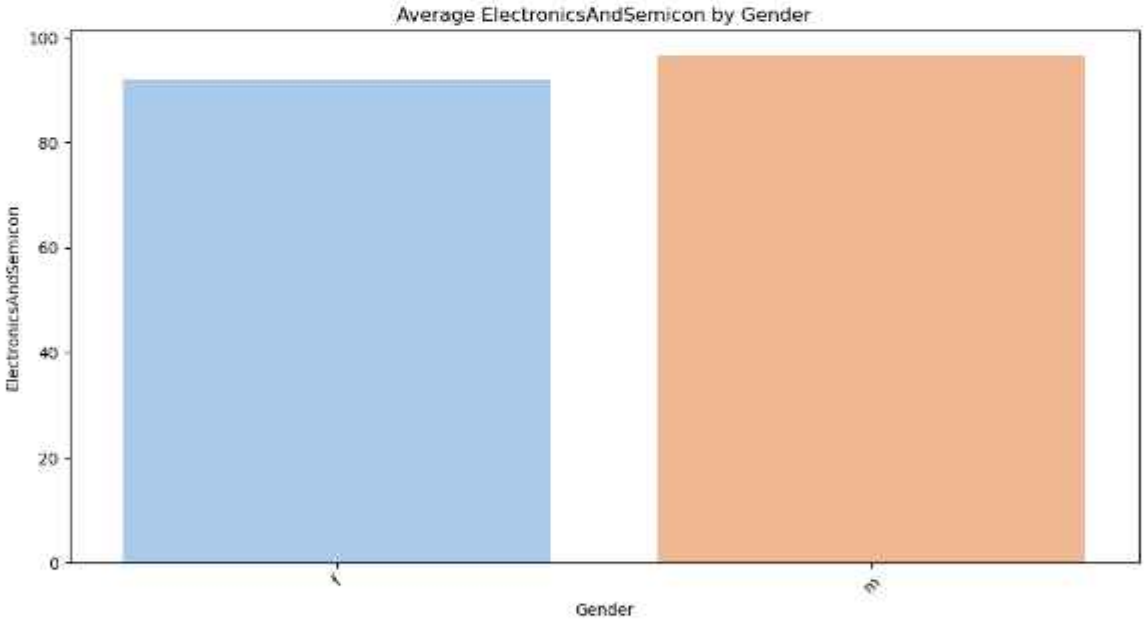


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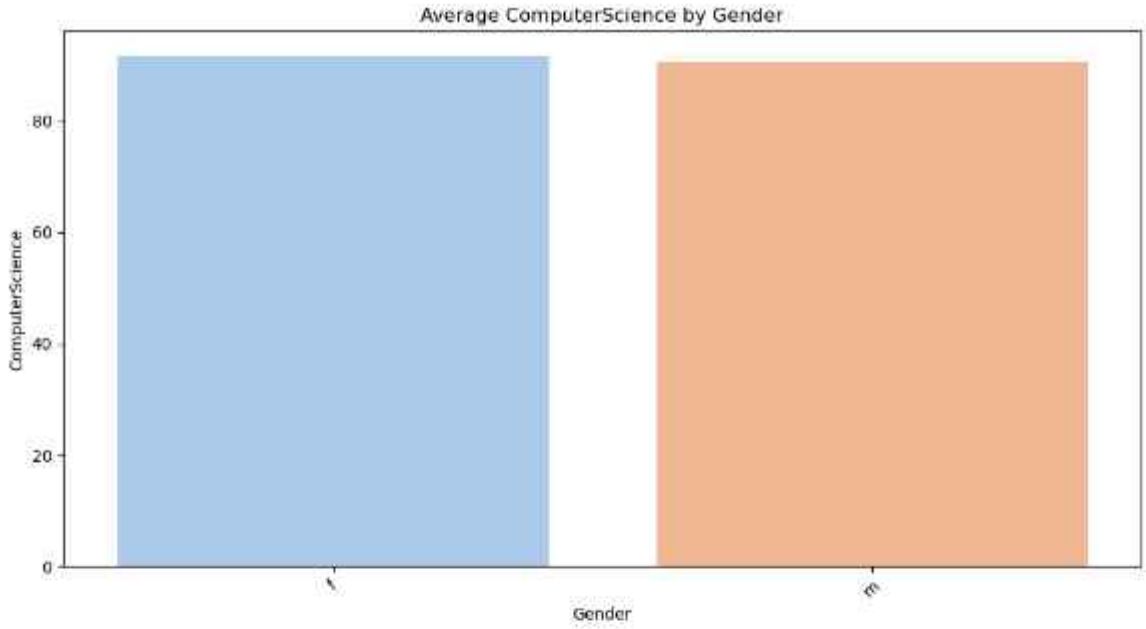


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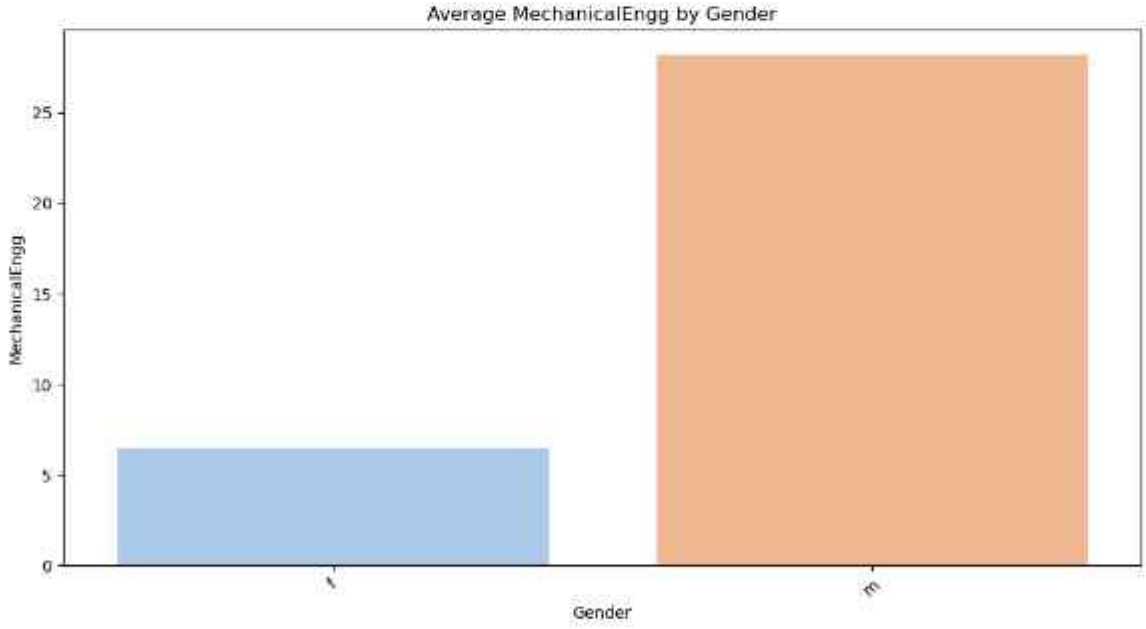


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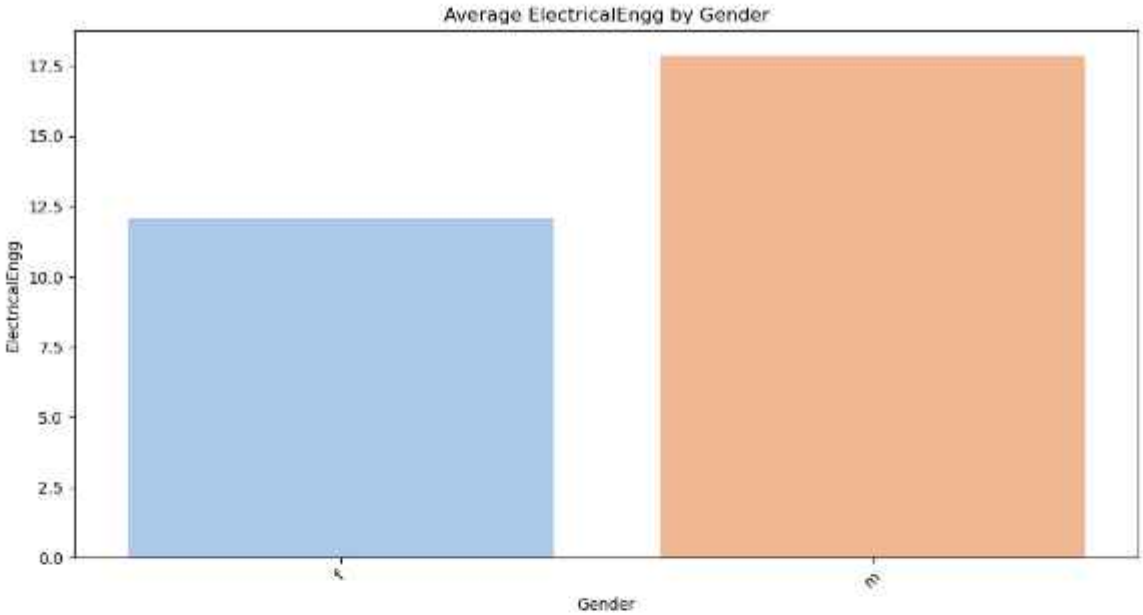


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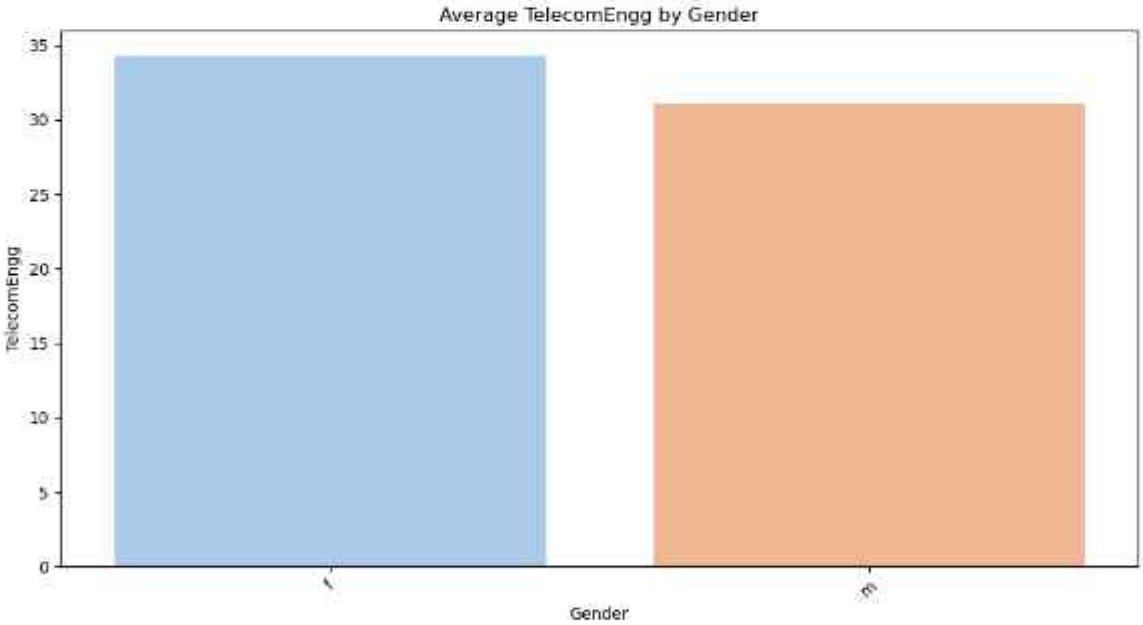


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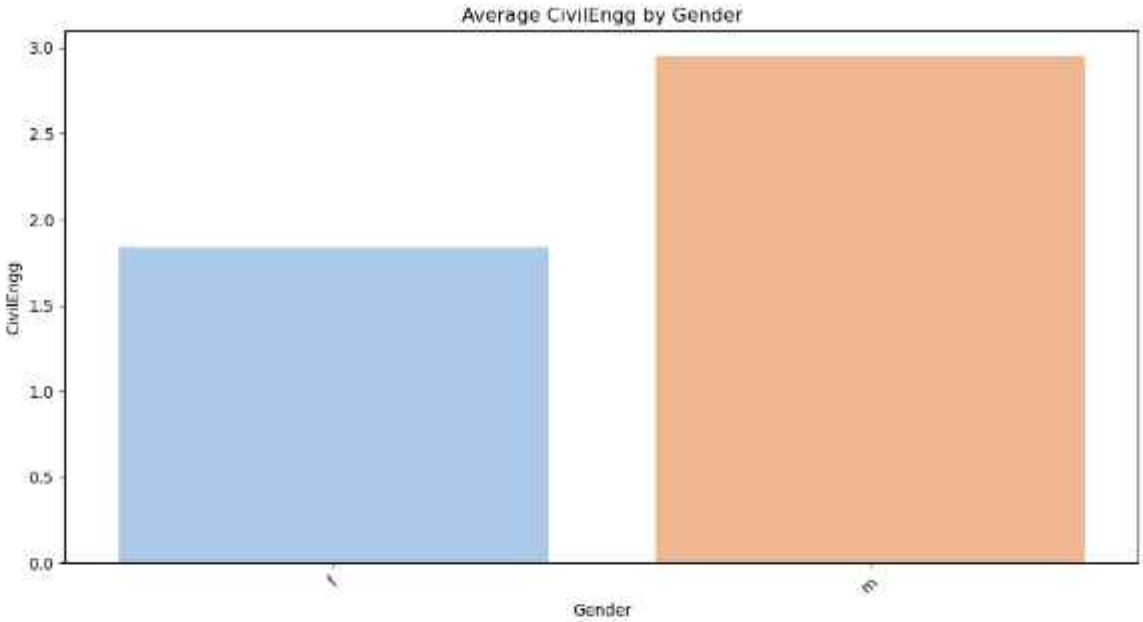


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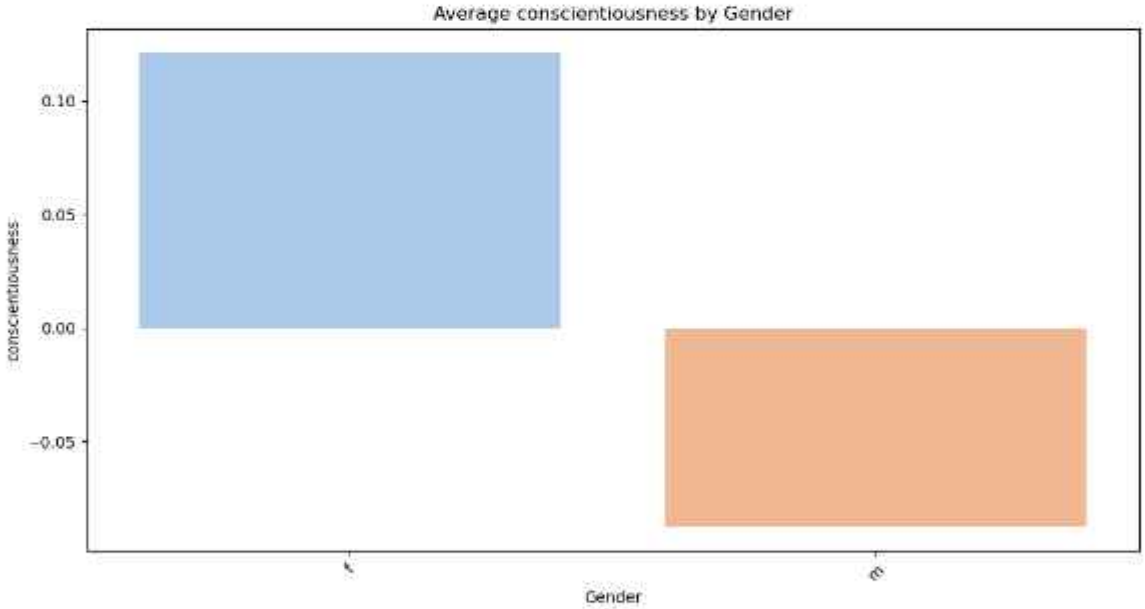


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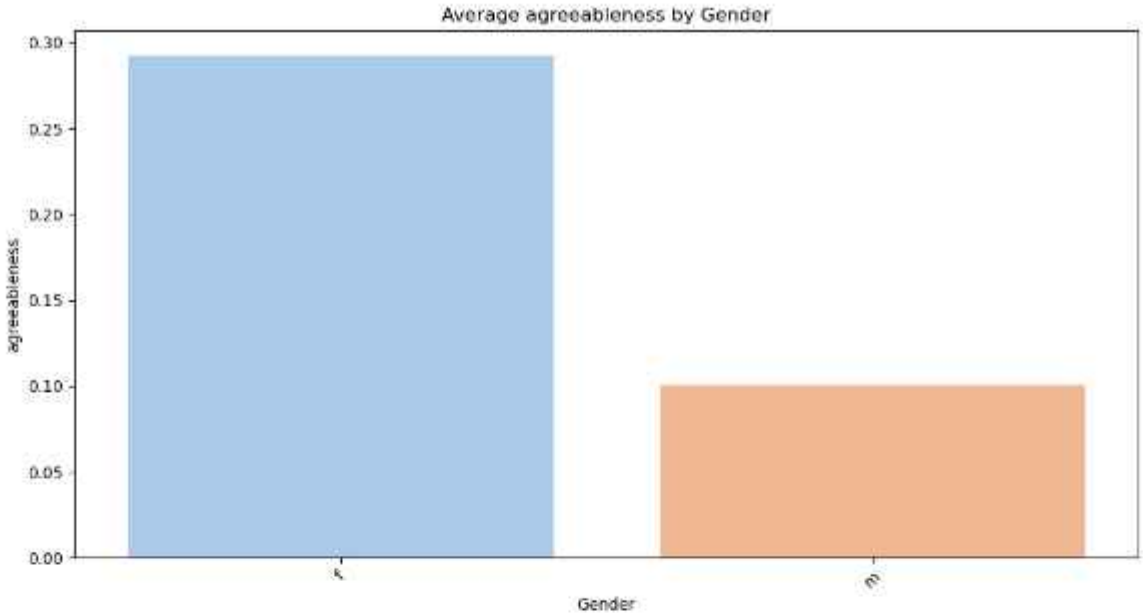


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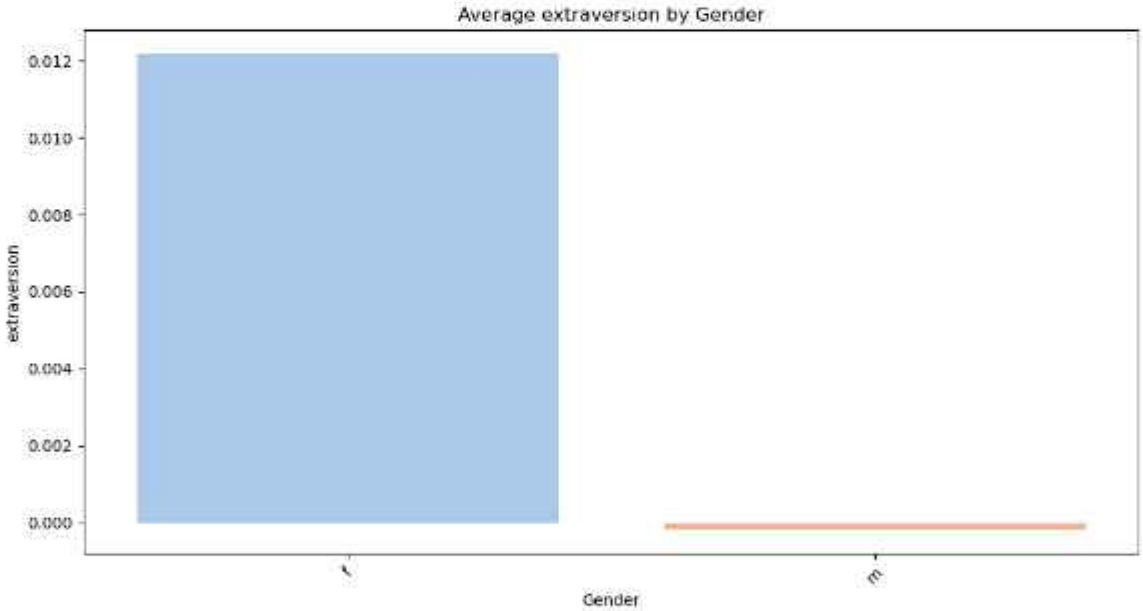


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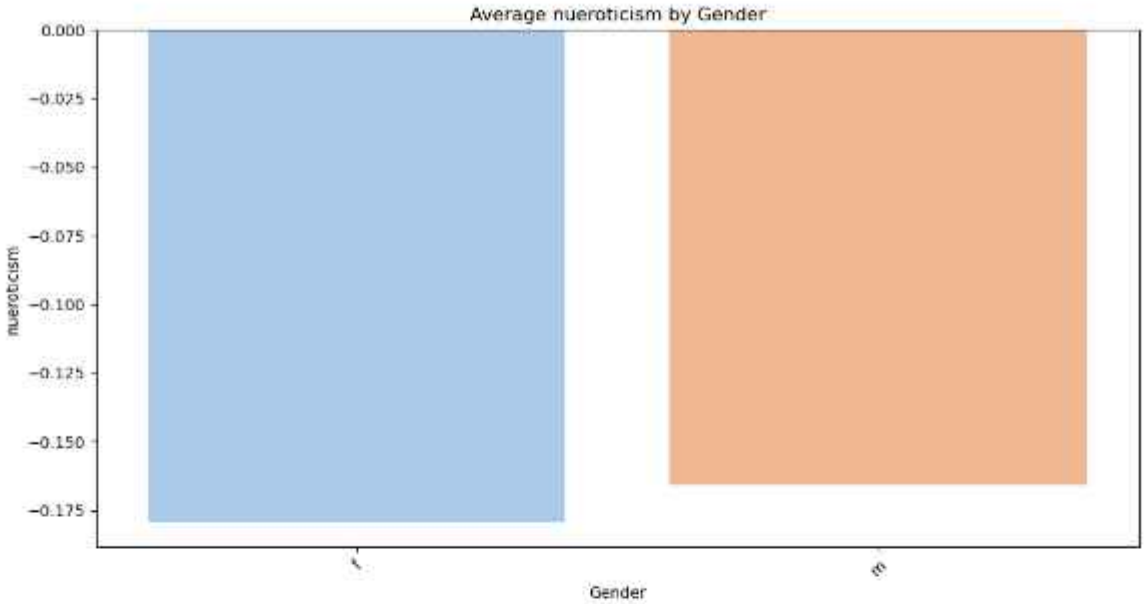


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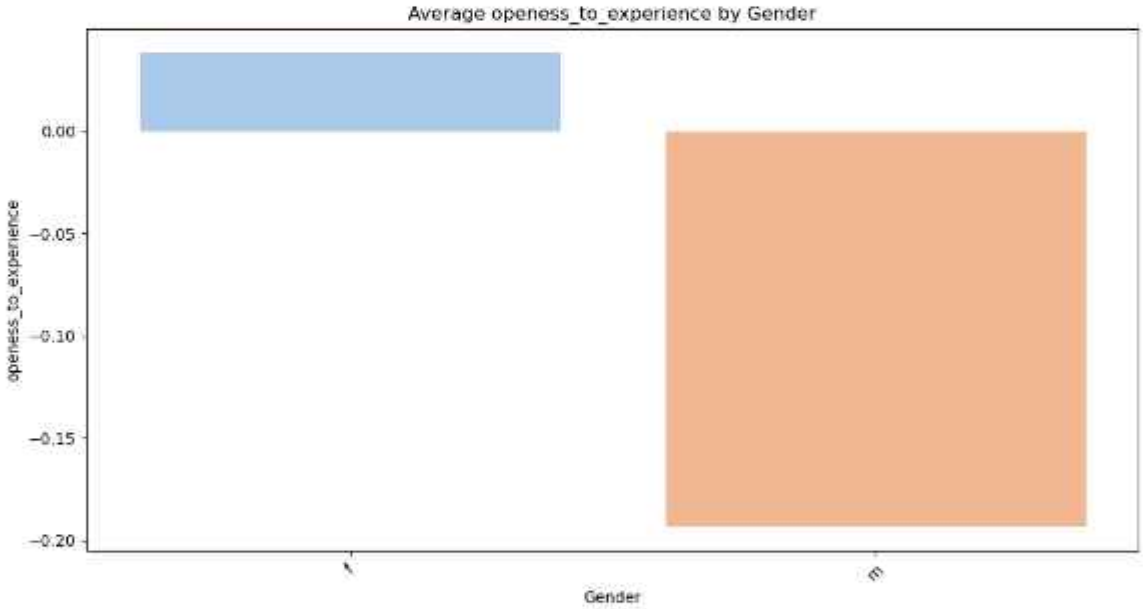


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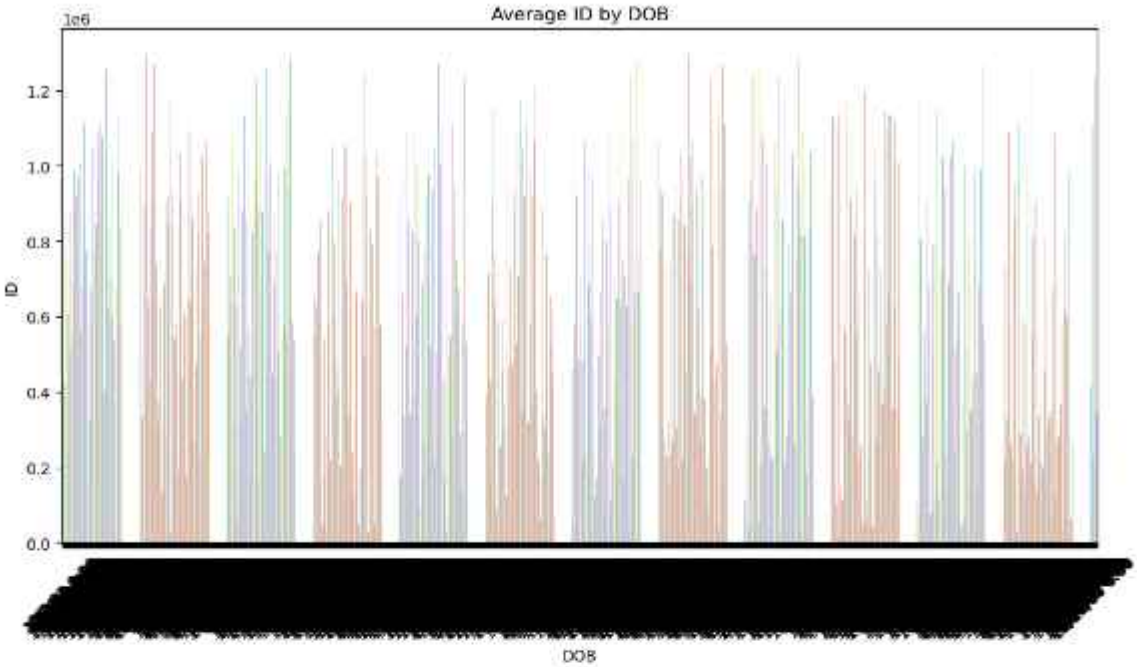


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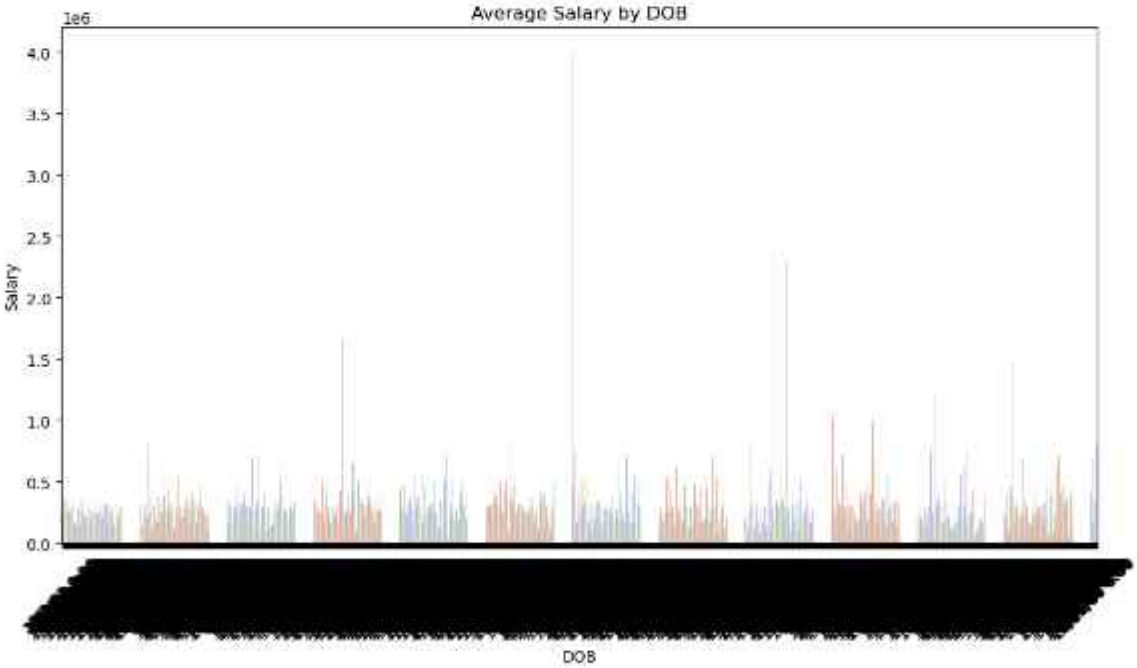


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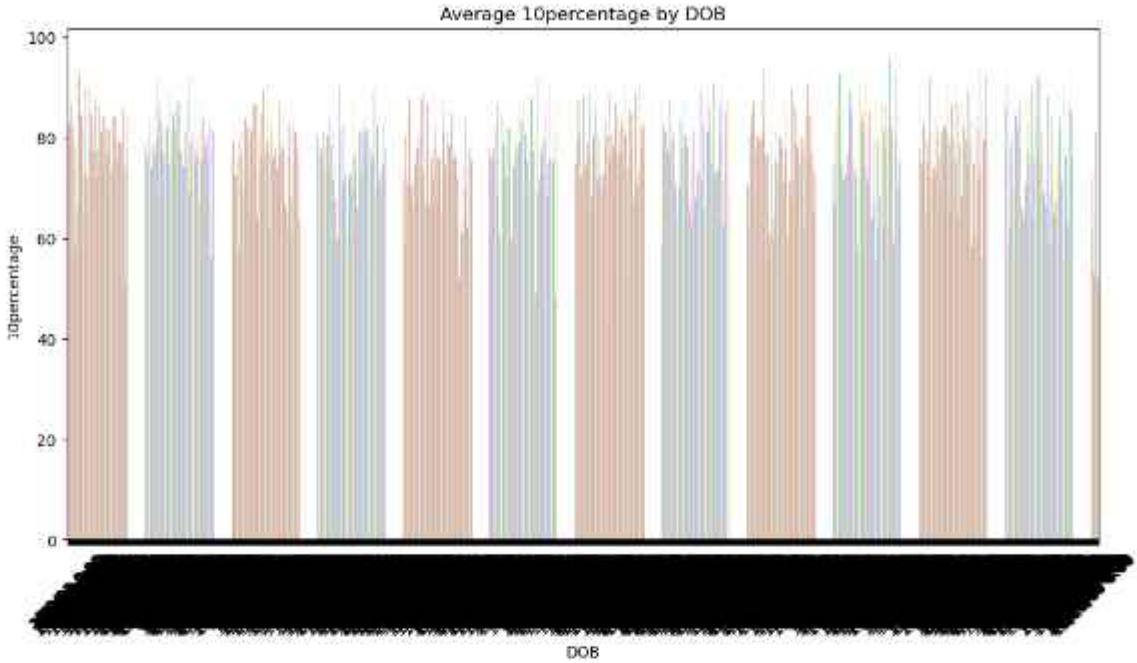


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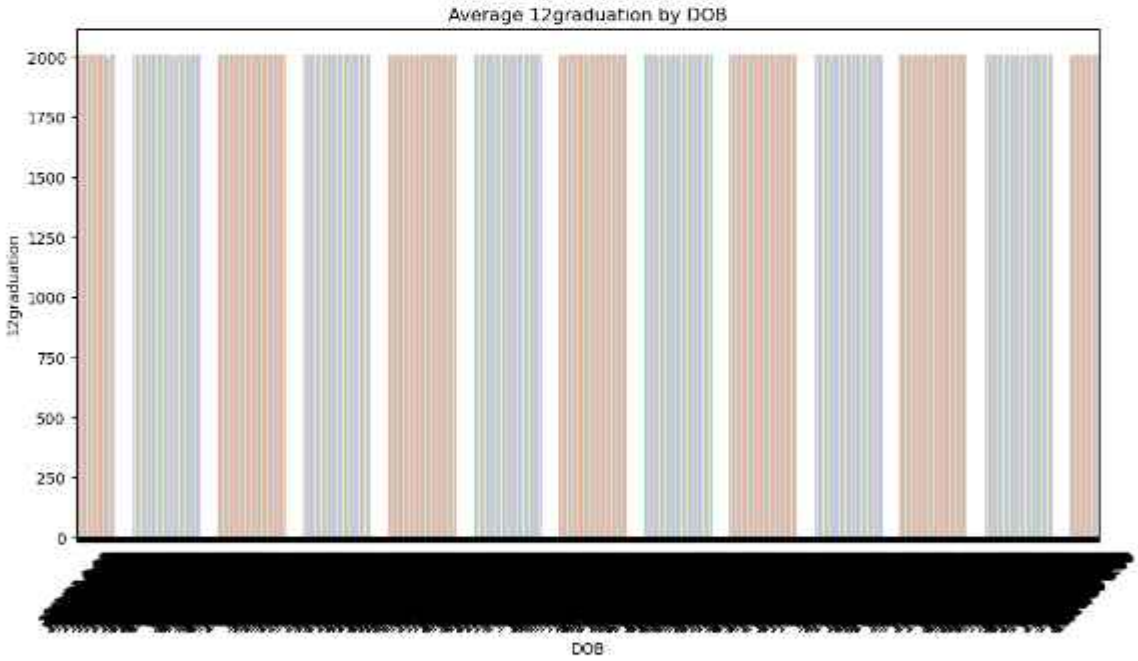


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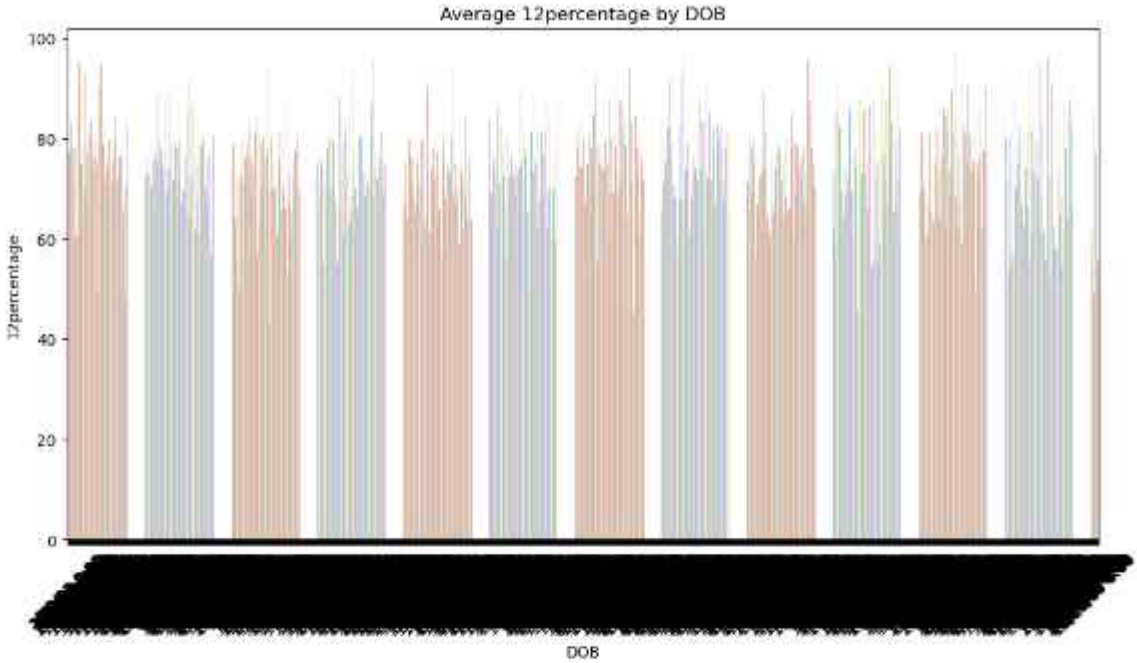


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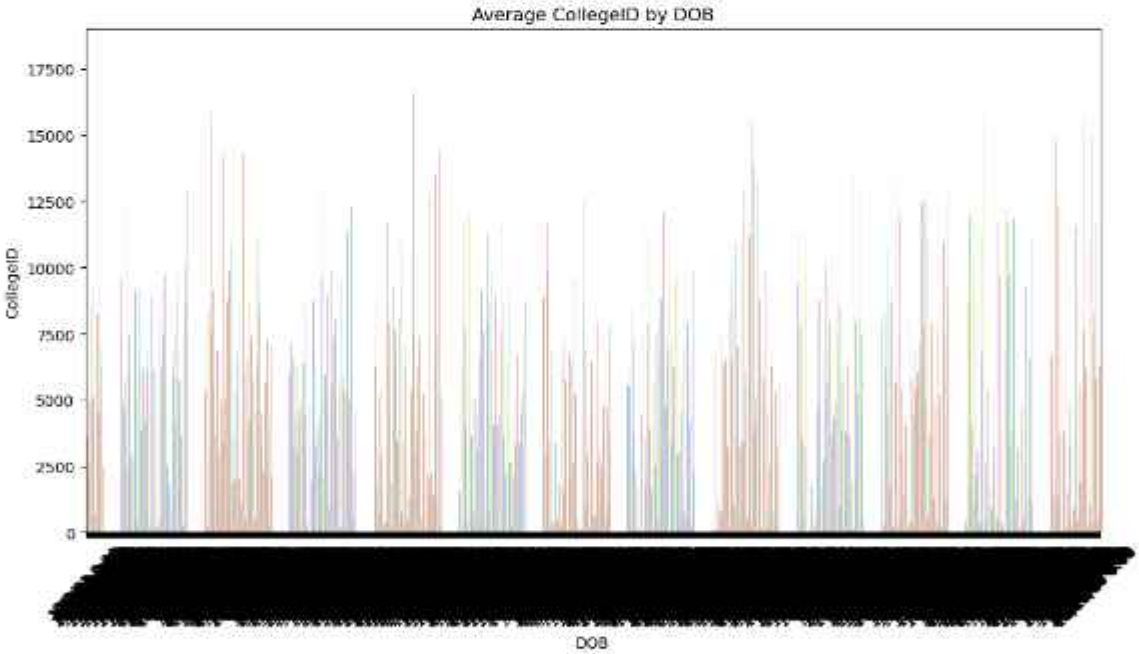


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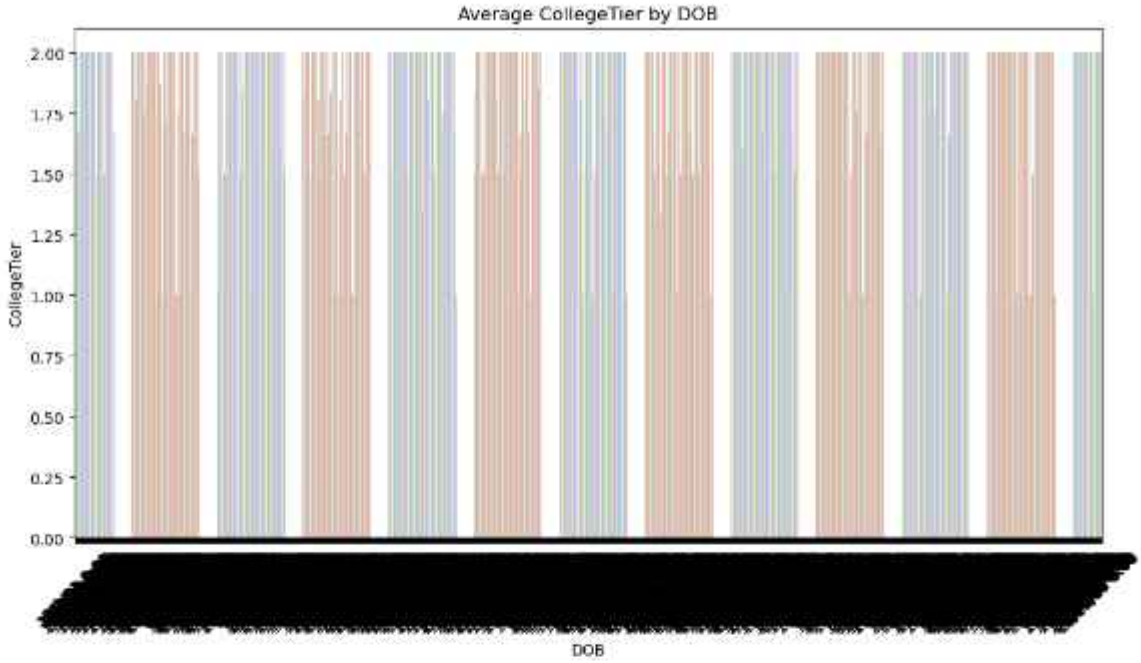


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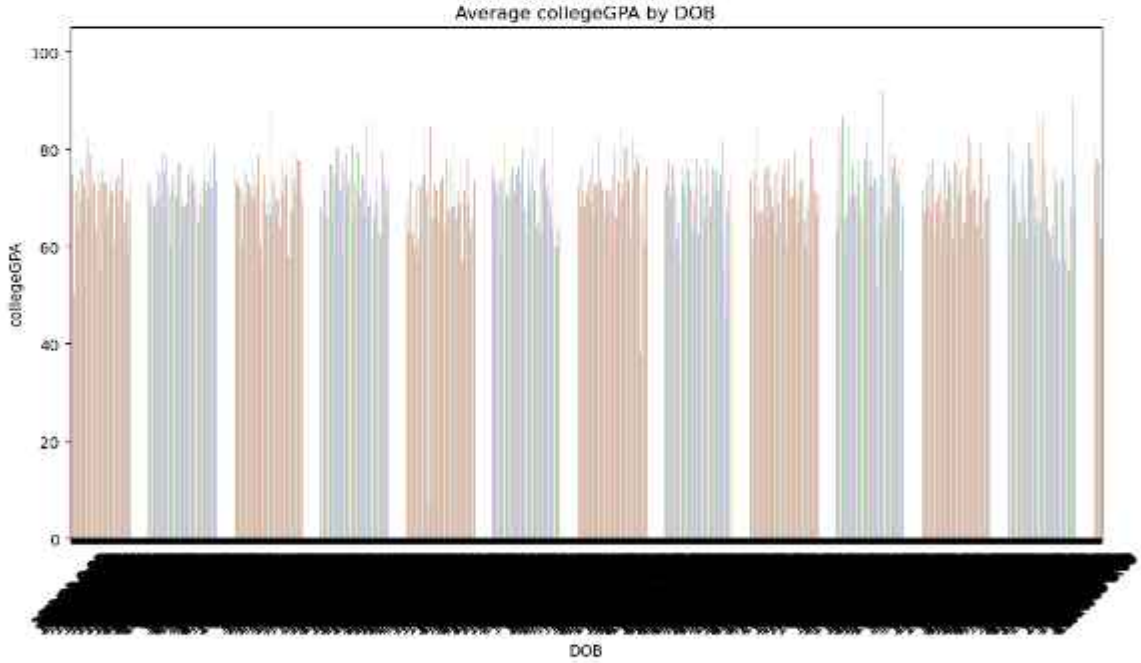


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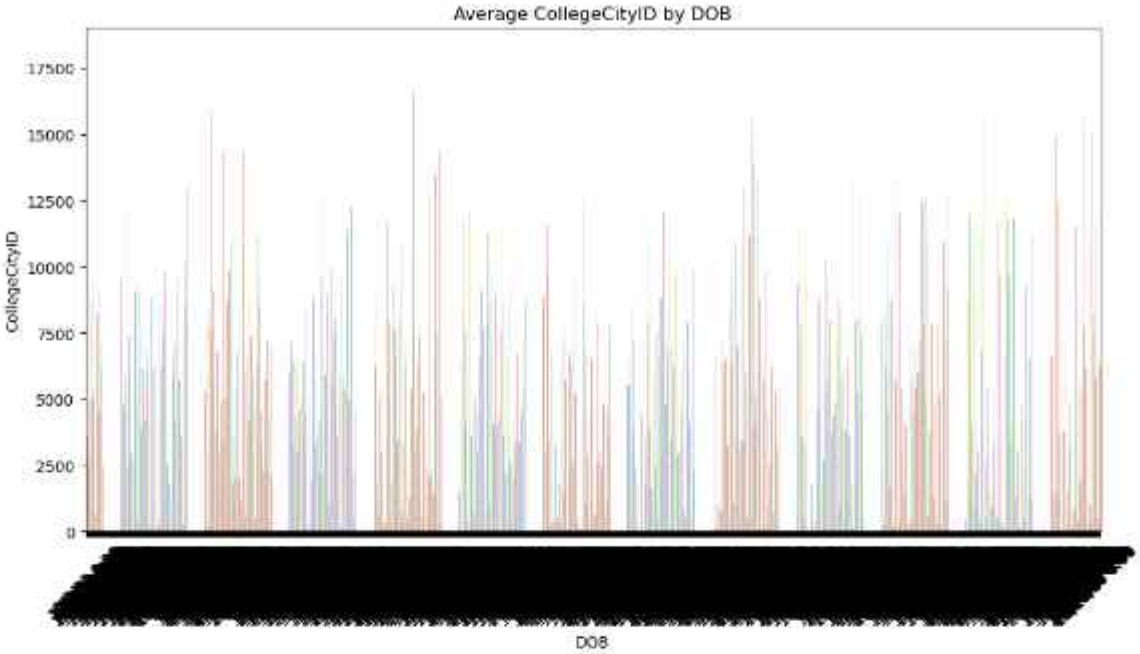


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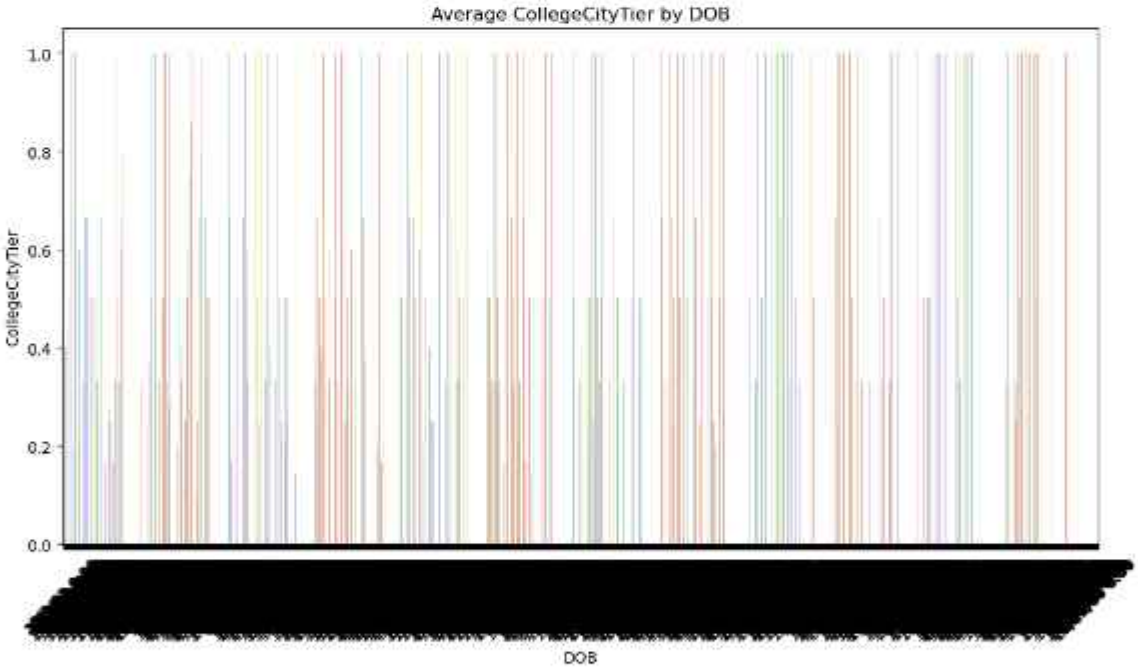


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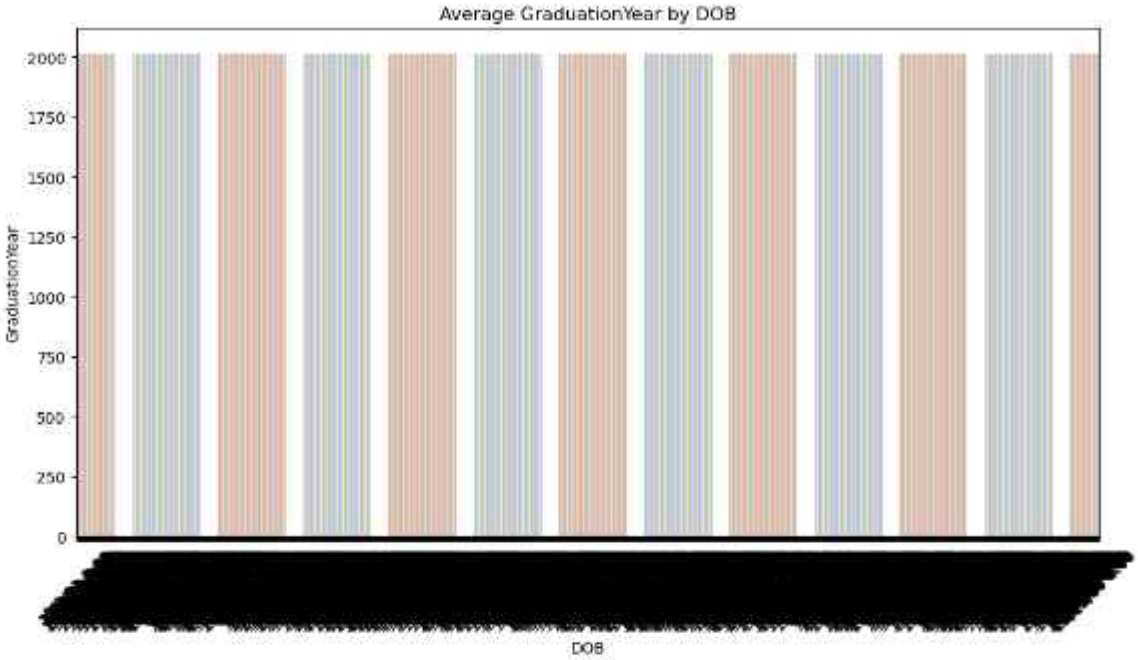


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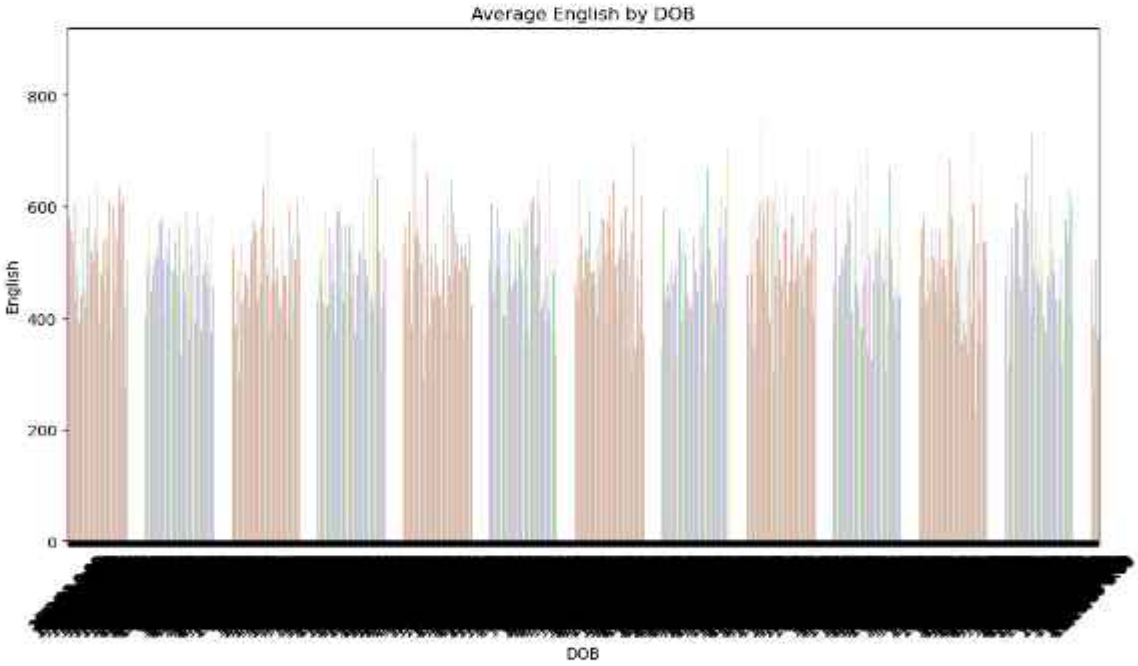


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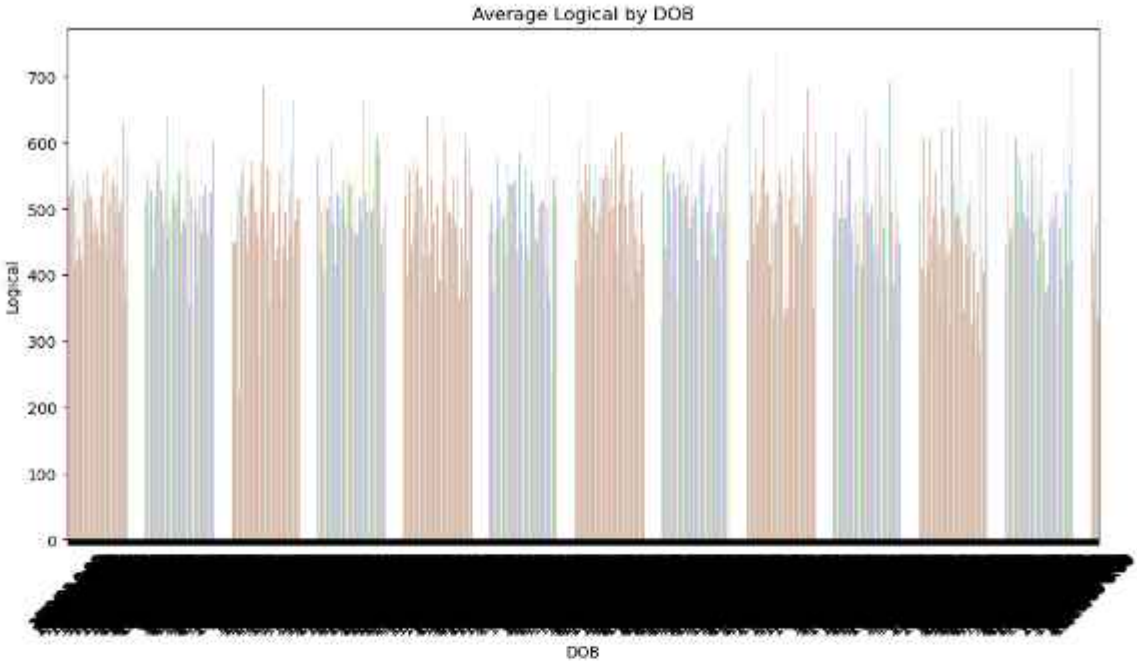


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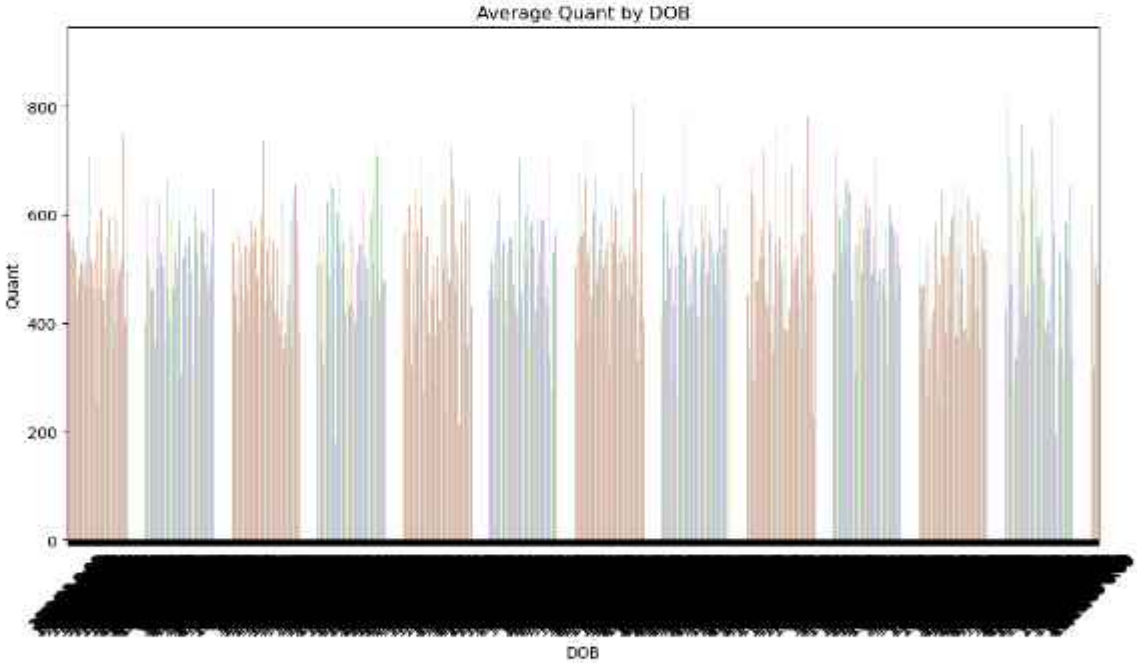


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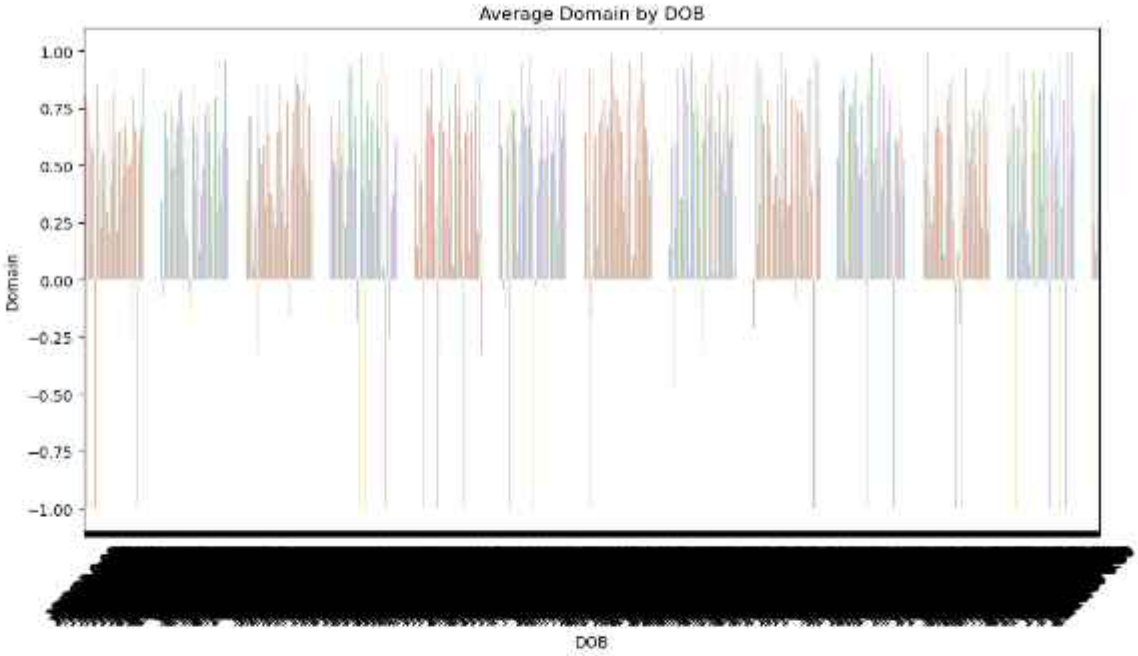


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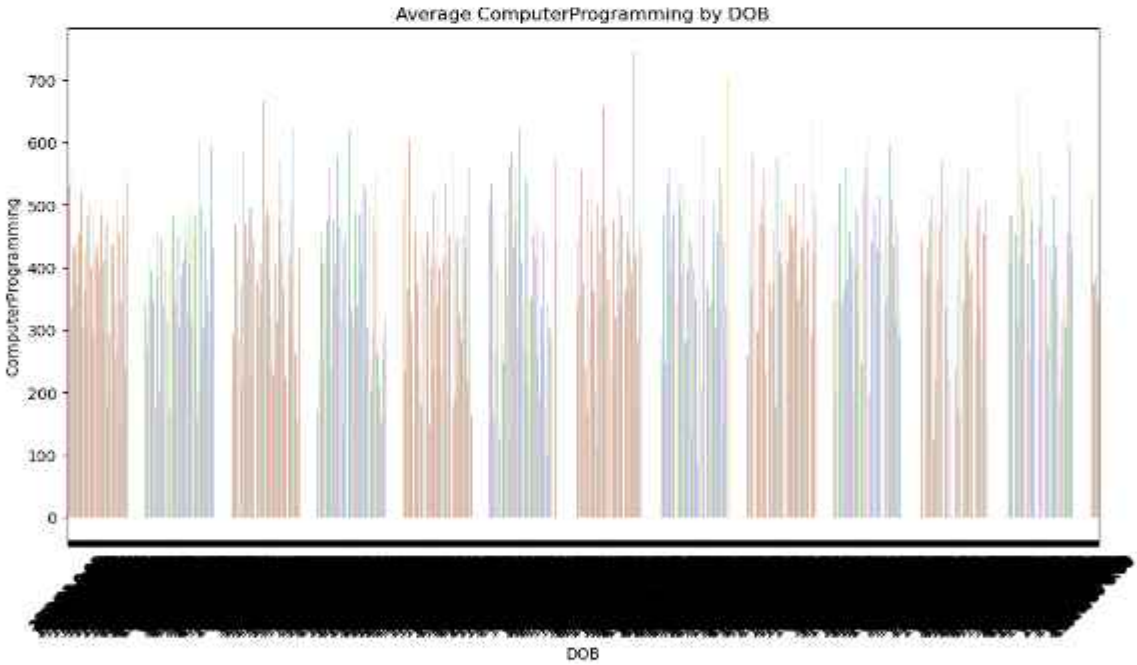


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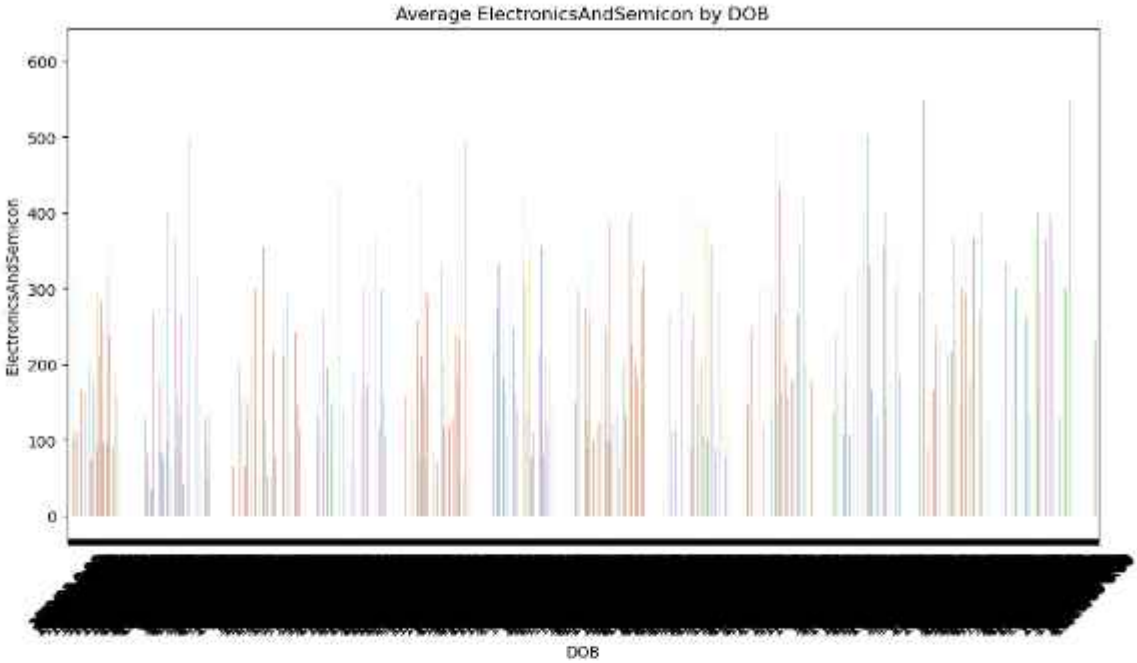


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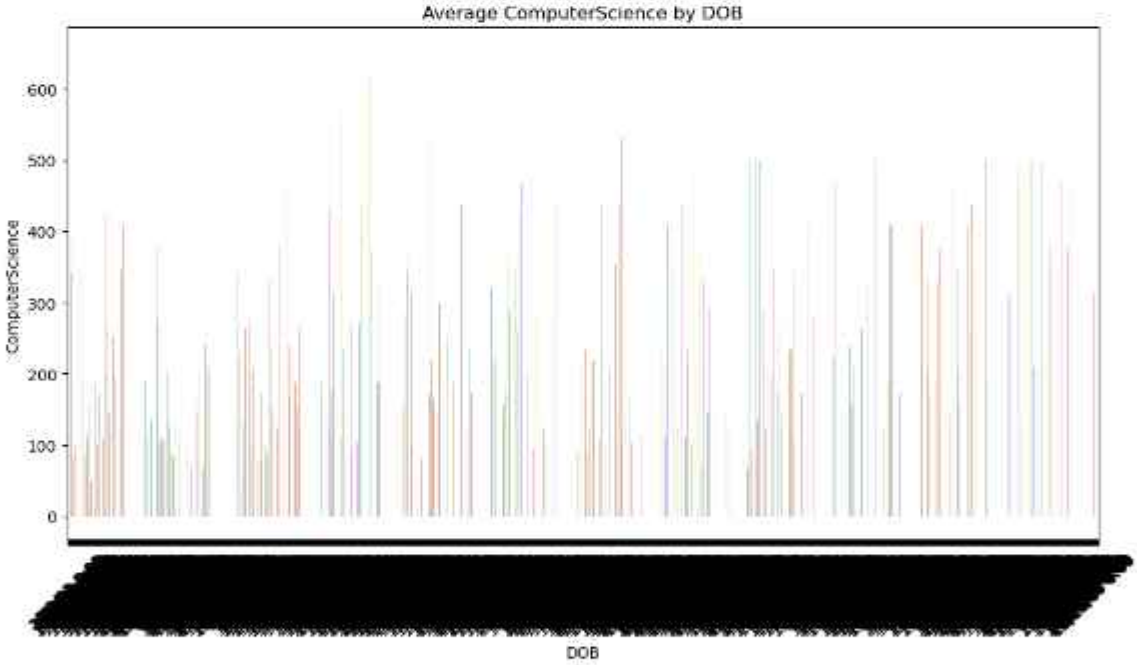


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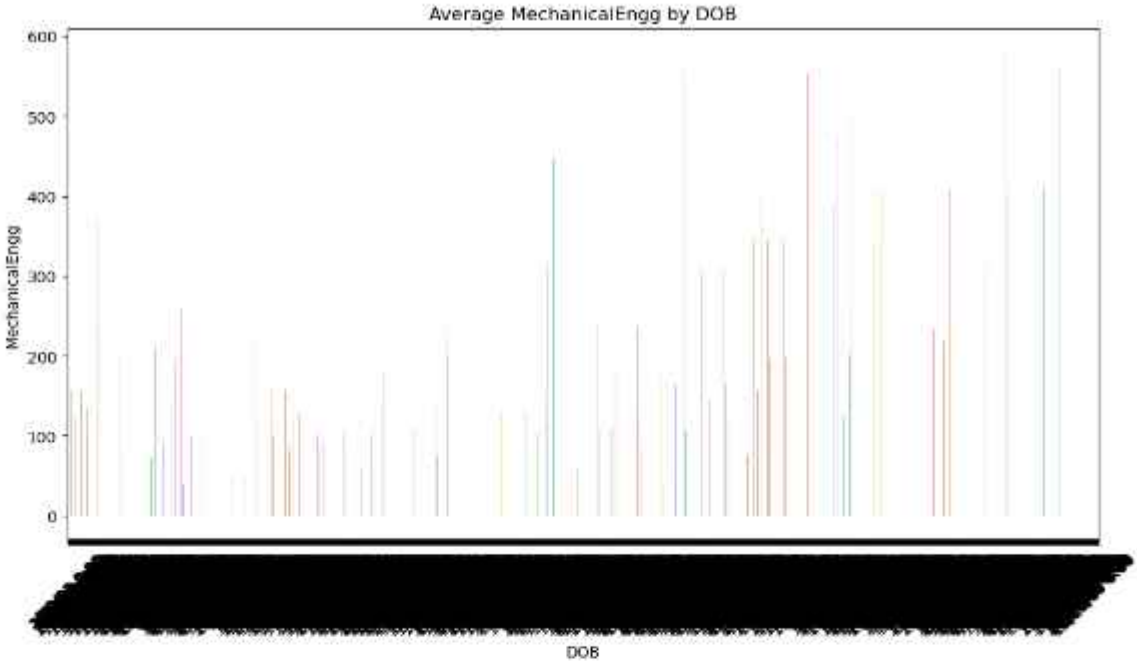


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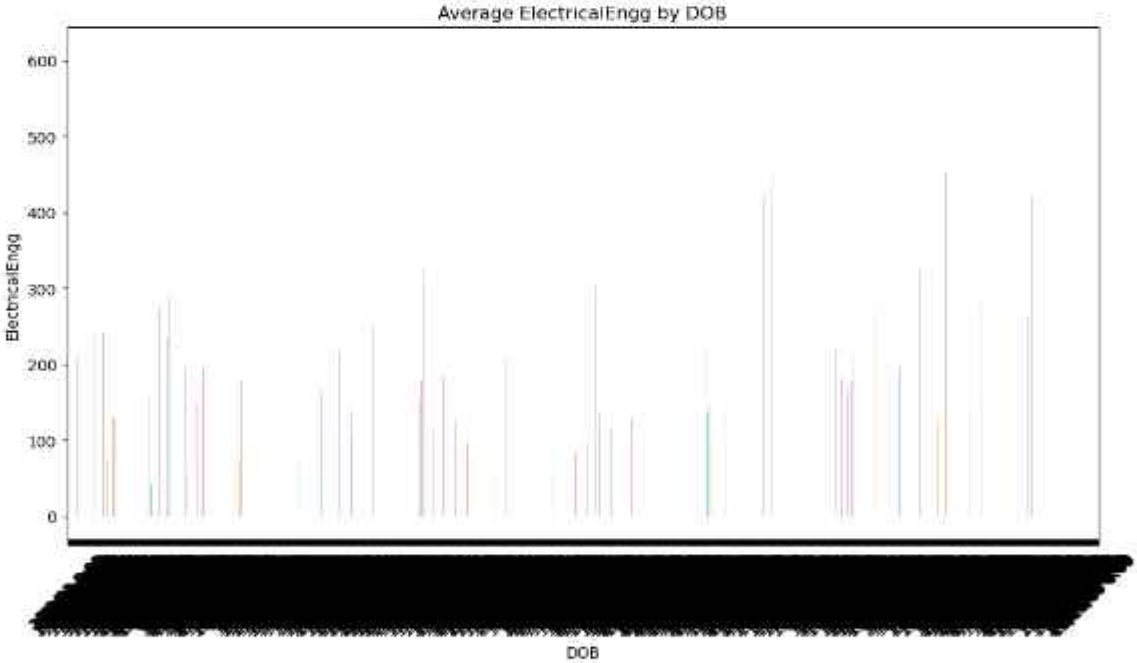


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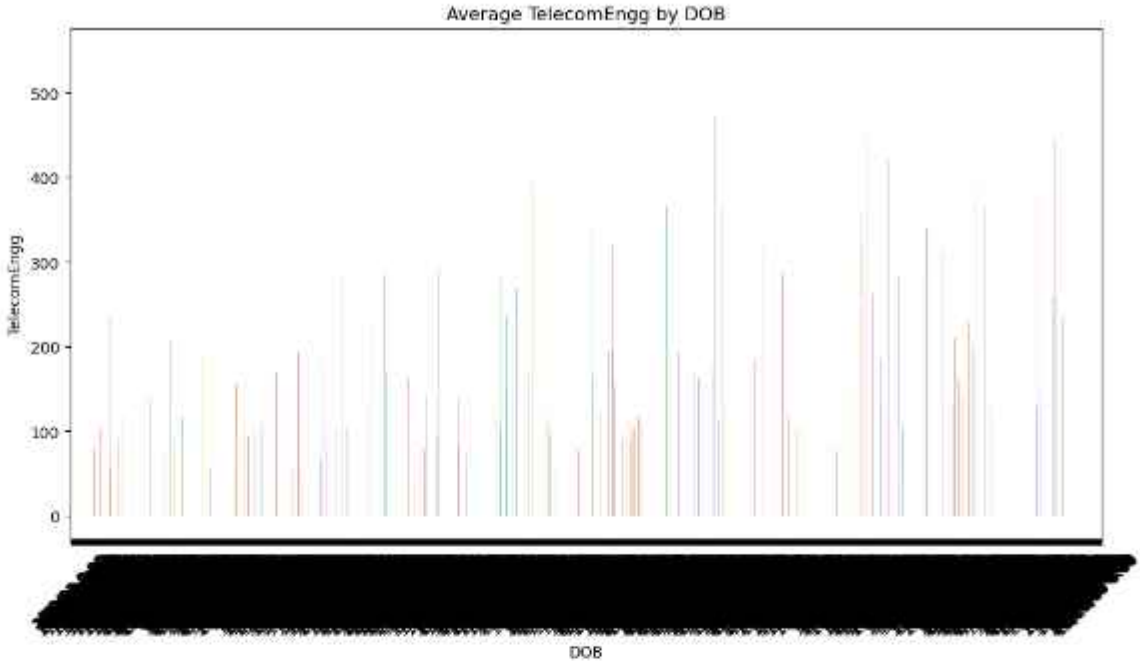


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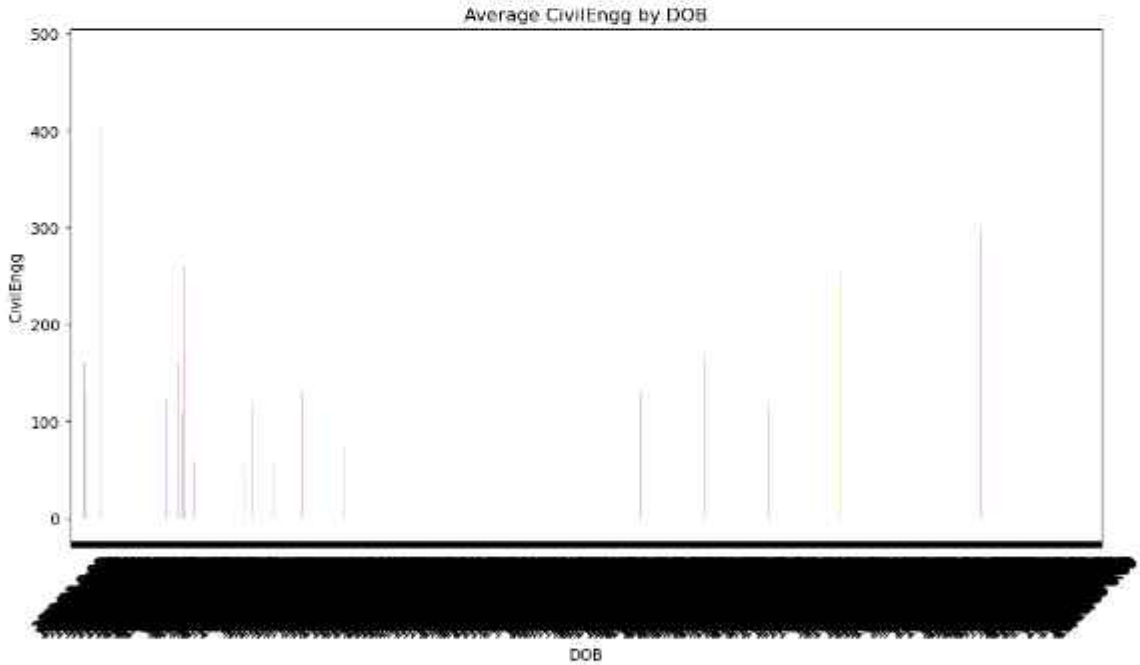


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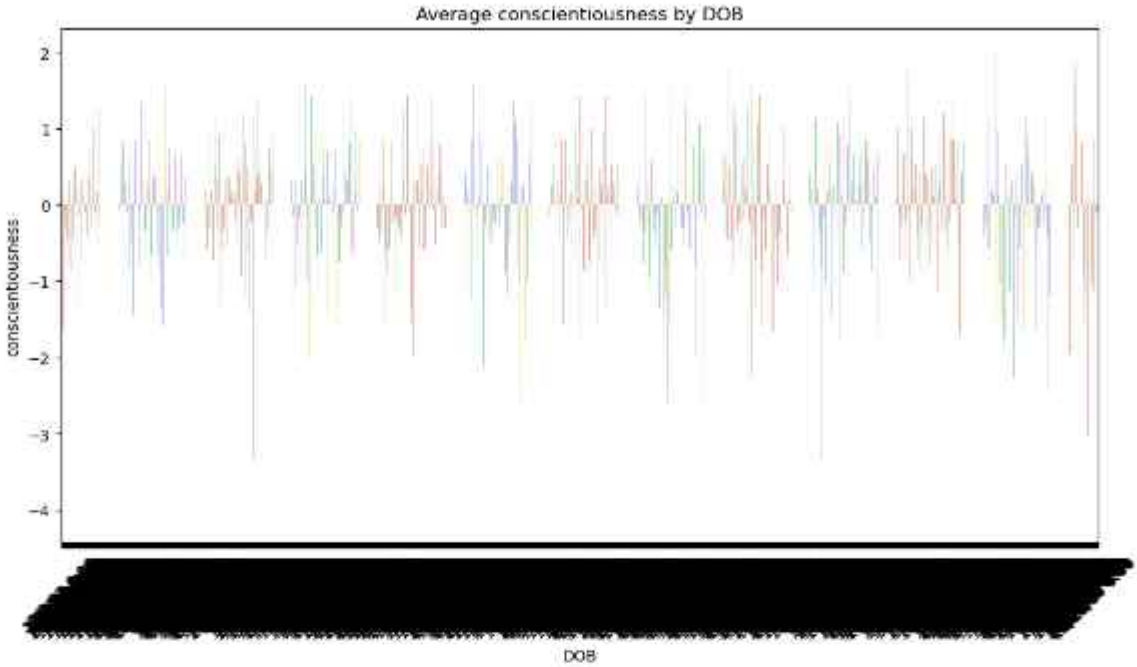


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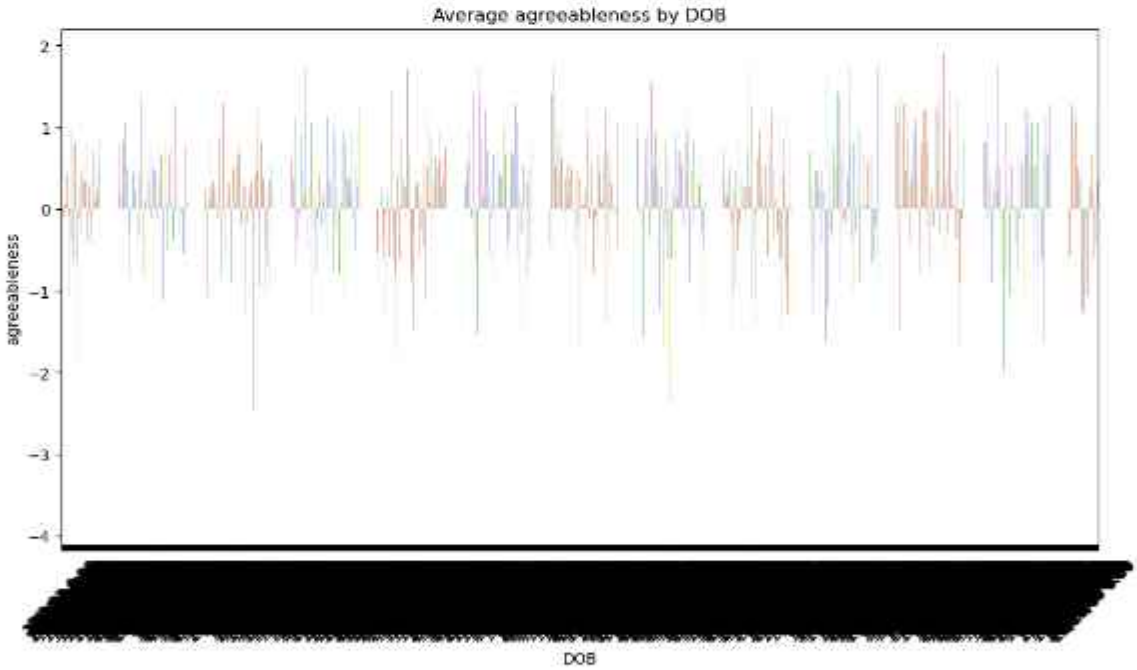


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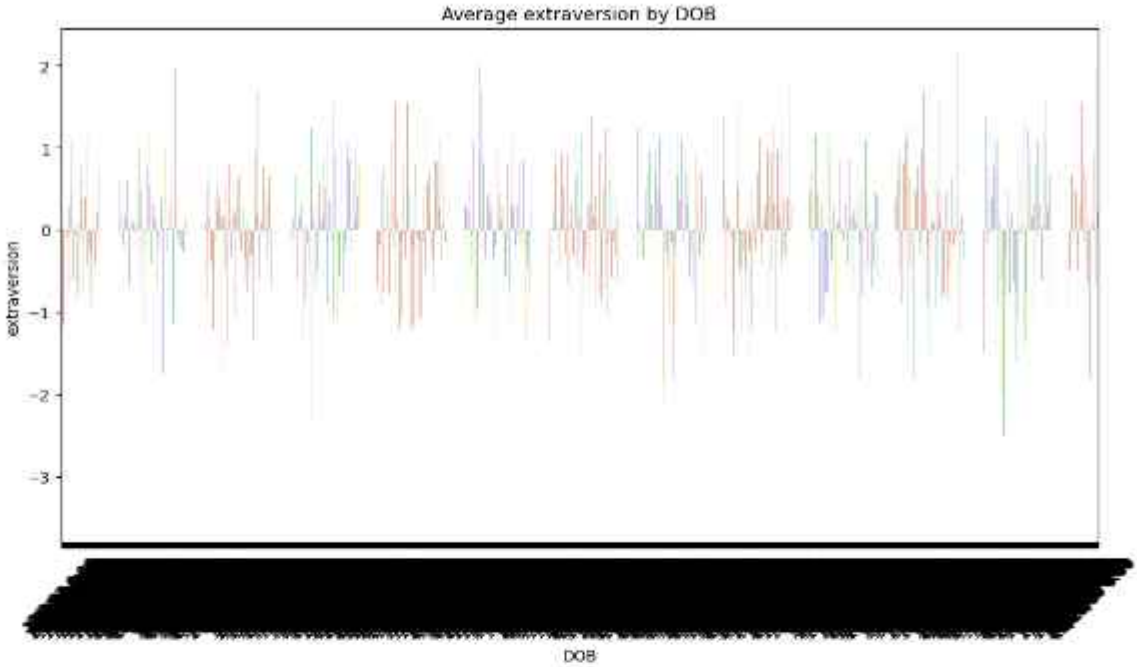


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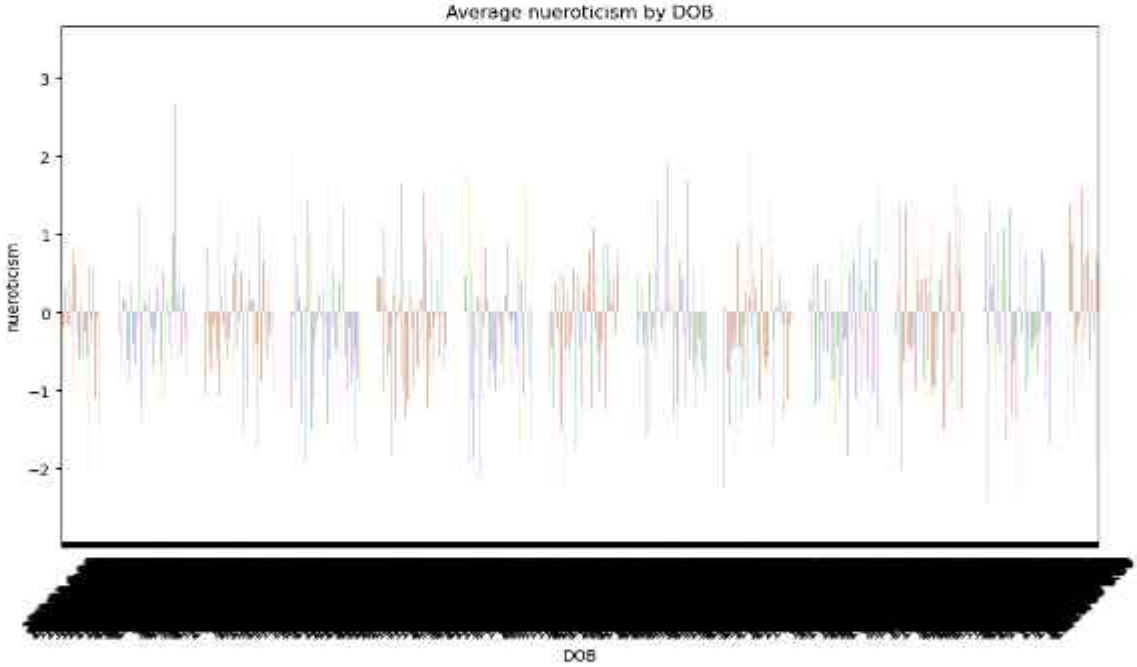


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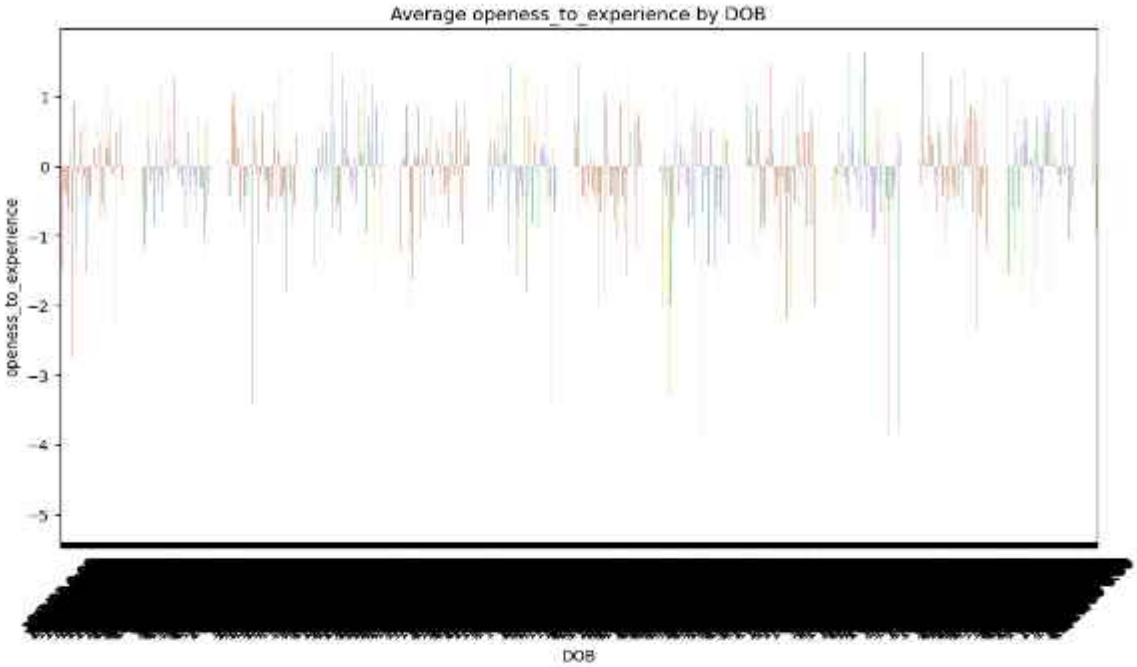


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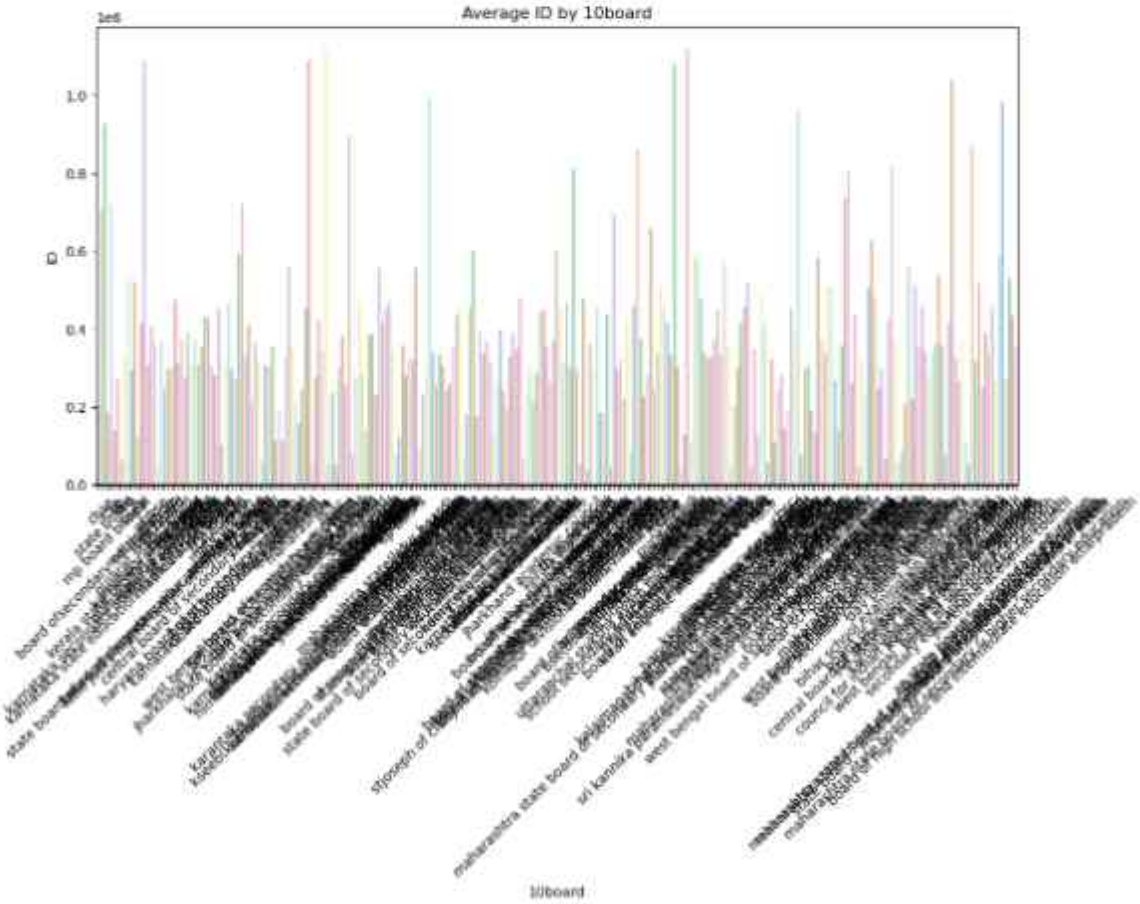

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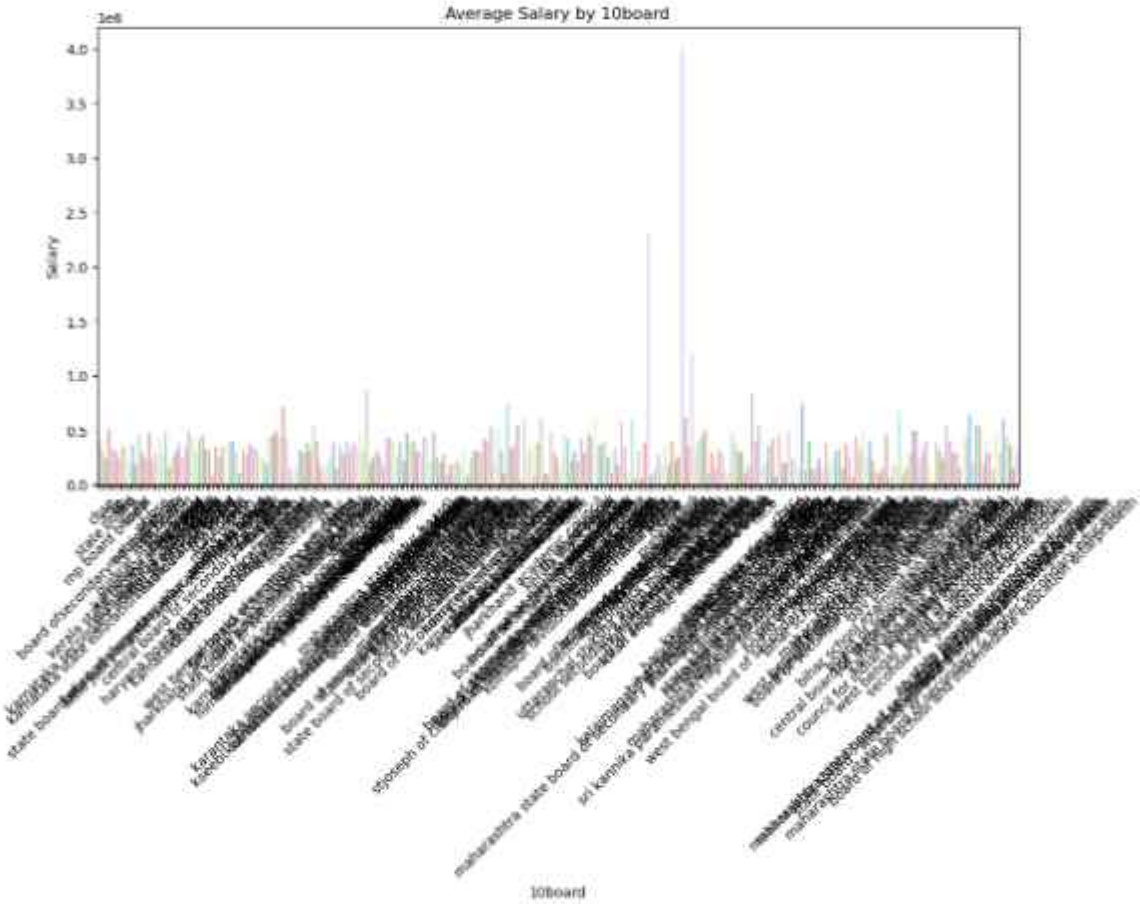


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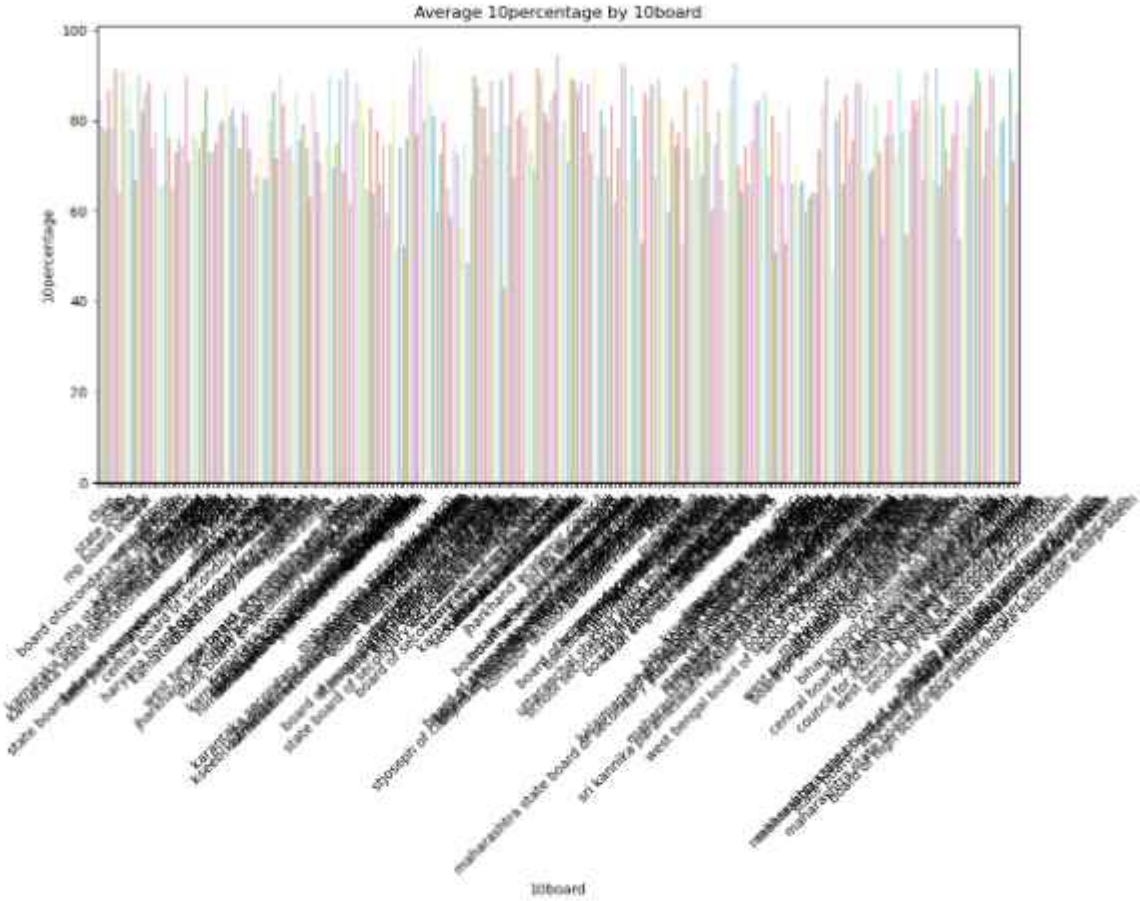


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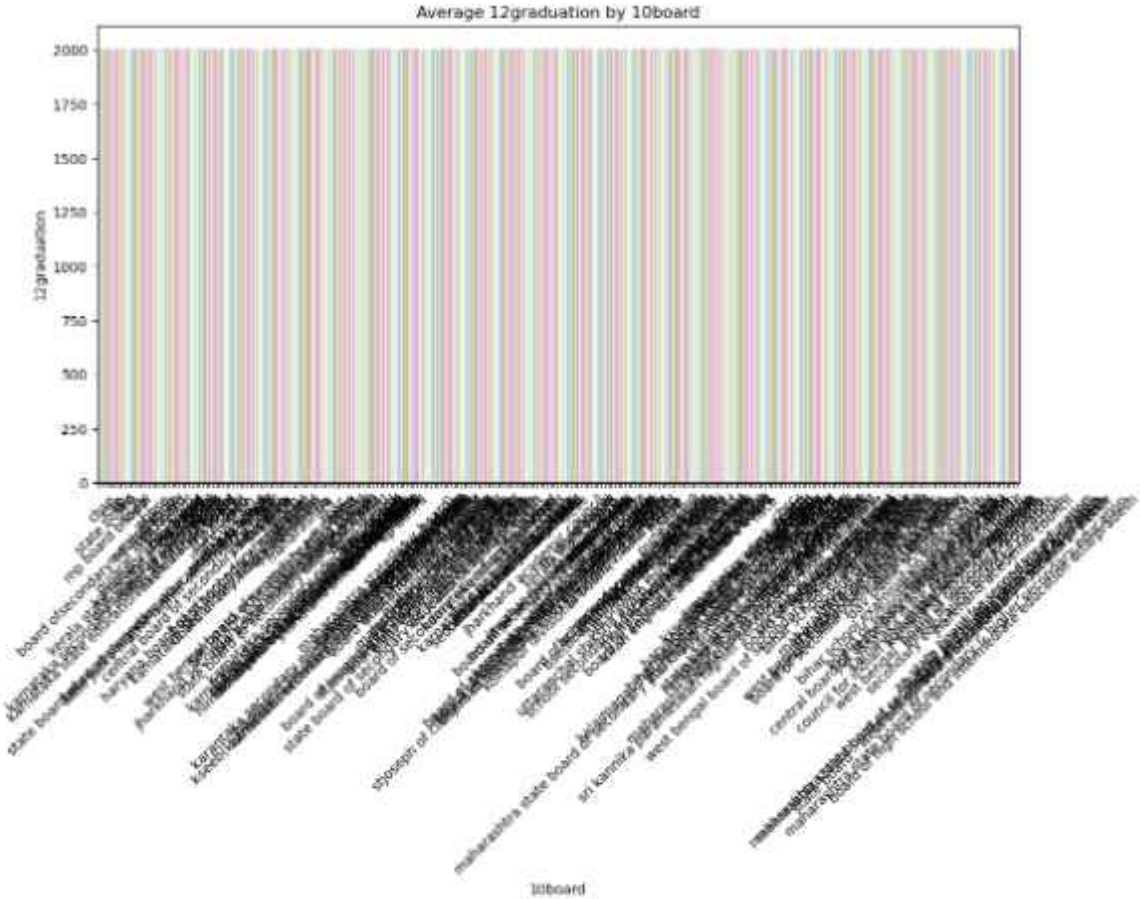


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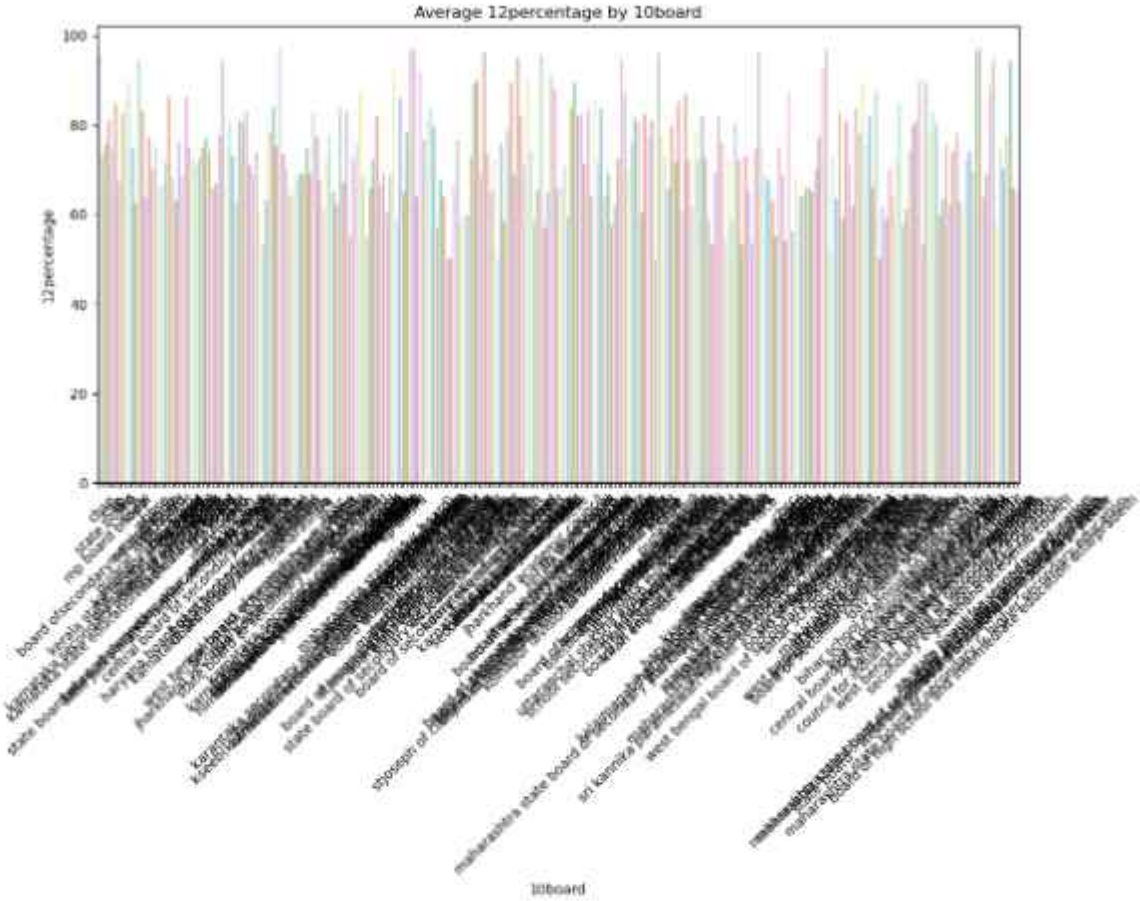


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