

```
In [1]: import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
from scipy import stats

In [2]: import pandas as pd
df = pd.read_csv('C:\Users\Chetan 696\Desktop\WVA_Fn-Use_C-HR-Employee-Attrition.csv')

In [3]: df
Out[1]:
   Age  Attrition  BusinessTravel  DailyRate  Department  DistanceFromHome  Education  EducationField  EmployeeCount  EmployeeNumber  ... RelationshipSatisfaction  StandardHours  StockOptionLevel  TotalWorkingYears  Trai
0  41  Yes       Travel_Rarely    1102      Sales          1              2  Life Sciences              1              1  ...              1              80              0              8
1  49  No       Travel_Frequently  279      Research & Development          8              1  Life Sciences              1              2  ...              4              80              1              10
2  37  Yes       Travel_Rarely    1373      Research & Development          2              2      Other              1              4  ...              2              80              0              7
3  33  No       Travel_Frequently  1392      Research & Development          3              4  Life Sciences              1              5  ...              3              80              0              8
4  27  No       Travel_Rarely    591      Research & Development          2              1      Medical              1              7  ...              4              80              1              6
...  ...  ...  ...  ...  ...  ...  ...  ...  ...  ...  ...  ...  ...  ...  ...
1465  36  No       Travel_Frequently  884      Research & Development          23              2      Medical              1          2061  ...              3              80              1              17
1466  39  No       Travel_Rarely    613      Research & Development          6              1      Medical              1          2062  ...              1              80              1              9
1467  27  No       Travel_Rarely    155      Research & Development          4              3  Life Sciences              1          2064  ...              2              80              1              6
1468  49  No       Travel_Frequently  1023      Sales              2              3      Medical              1          2065  ...              4              80              0              17
1469  34  No       Travel_Rarely    628      Research & Development          8              3      Medical              1          2068  ...              1              80              0              6
1470 rows x 35 columns

In [4]: df.head()
Out[4]:
   Age  Attrition  BusinessTravel  DailyRate  Department  DistanceFromHome  Education  EducationField  EmployeeCount  EmployeeNumber  ... RelationshipSatisfaction  StandardHours  StockOptionLevel  TotalWorkingYears  Trai
0  41  Yes       Travel_Rarely    1102      Sales          1              2  Life Sciences              1              1  ...              1              80              0              8
1  49  No       Travel_Frequently  279      Research & Development          8              1  Life Sciences              1              2  ...              4              80              1              10
2  37  Yes       Travel_Rarely    1373      Research & Development          2              2      Other              1              4  ...              2              80              0              7
3  33  No       Travel_Frequently  1392      Research & Development          3              4  Life Sciences              1              5  ...              3              80              0              8
4  27  No       Travel_Rarely    591      Research & Development          2              1      Medical              1              7  ...              4              80              1              6
5 rows x 35 columns

In [5]: df.tail()
Out[5]:
   Age  Attrition  BusinessTravel  DailyRate  Department  DistanceFromHome  Education  EducationField  EmployeeCount  EmployeeNumber  ... RelationshipSatisfaction  StandardHours  StockOptionLevel  TotalWorkingYears  Trai
1465  36  No       Travel_Frequently  884      Research & Development          23              2      Medical              1          2061  ...              3              80              1              17
1466  39  No       Travel_Rarely    613      Research & Development          6              1      Medical              1          2062  ...              1              80              1              9
1467  27  No       Travel_Rarely    155      Research & Development          4              3  Life Sciences              1          2064  ...              2              80              1              6
1468  49  No       Travel_Frequently  1023      Sales              2              3      Medical              1          2065  ...              4              80              0              17
1469  34  No       Travel_Rarely    628      Research & Development          8              3      Medical              1          2068  ...              1              80              0              6
5 rows x 35 columns

In [6]: df.shape
Out[6]:
(1470, 35)

In [7]: df.info()
<class 'pandas.core.DataFrame'>
RangeIndex: 1470 entries, 0 to 1469
Data columns (total 35 columns):
 #   Column              Non-Null Count  Dtype
---  --
 0   Age                 1470 non-null    int64
 1   Attrition           1470 non-null    object
 2   BusinessTravel       1470 non-null    object
 3   DailyRate           1470 non-null    int64
 4   Department           1470 non-null    object
 5   DistanceFromHome     1470 non-null    int64
 6   Education            1470 non-null    int64
 7   EducationField        1470 non-null    object
 8   EmployeeCount        1470 non-null    int64
 9   EmployeeNumber       1470 non-null    int64
10  EnvironmentSatisfaction  1470 non-null    int64
11  Gender              1470 non-null    object
12  HourlyRate           1470 non-null    int64
13  JobInvolvement       1470 non-null    int64
14  JobLevel             1470 non-null    int64
15  JobRole              1470 non-null    object
16  JobSatisfaction       1470 non-null    int64
17  MaritalStatus        1470 non-null    object
18  MonthlyIncome        1470 non-null    int64
19  MonthlyRate          1470 non-null    int64
20  NumCompaniesWorked   1470 non-null    int64
21  Over18              1470 non-null    object
22  OverTime             1470 non-null    object
23  PercentSalaryHike    1470 non-null    int64
24  PerformanceRating     1470 non-null    int64
25  RelationshipSatisfaction  1470 non-null    int64
26  StandardHours        1470 non-null    int64
27  StockOptionLevel     1470 non-null    int64
28  TotalWorkingYears    1470 non-null    int64
29  TrainingTimesLastYear  1470 non-null    int64
30  WorkLifeBalance      1470 non-null    int64
31  YearsAtCompany        1470 non-null    int64
32  YearsInCurrentRole    1470 non-null    int64
33  YearsSinceLastPromotion  1470 non-null    int64
34  YearsWithCurrManager  1470 non-null    int64
dtypes: int64(26), object(9)
memory usage: 402.1+ KB

In [8]: df.describe()
Out[8]:
   Age  DailyRate  DistanceFromHome  Education  EmployeeCount  EmployeeNumber  EnvironmentSatisfaction  HourlyRate  JobInvolvement  JobLevel  ... RelationshipSatisfaction  StandardHours  StockOptionLevel  TotalWorkingYears  Stock
count  1470.000000  1470.000000      1470.000000  1470.000000      1470.0      1470.000000      1470.000000  1470.000000  1470.000000  1470.000000  ...  1470.000000  1470.000000  1470.0      1470.0000
mean    36.962810    802.485714    9.192517    2.912825      1.0      1024.865306      2.721769    65.981156    2.729932    2.063846  ...  2.712245      80.0      0.0      8.780
std     9.813373    403.509100    8.106864    1.024165      0.0      602.024335    1.093802    20.329428    0.711561    1.106840  ...  1.081209      0.0      0.0      0.852
min     18.000000    102.000000    1.000000    1.000000      1.0      1.000000      1.000000    30.000000    0.000000    1.000000  ...  1.000000      80.0      0.0      0.000
25%    30.000000    462.000000      2.000000    2.000000      1.0      491.250000      2.000000    48.000000      2.000000    1.000000  ...  2.000000      80.0      0.0      0.000
50%    36.000000    802.000000      7.000000    3.000000      1.0      1020.500000      3.000000    66.000000      3.000000      2.000000  ...  3.000000      80.0      1.0      1.000
75%    43.000000    1187.000000     14.000000      4.000000      1.0      1585.750000      4.000000    83.750000      3.000000      3.000000  ...  4.000000      80.0      1.0      1.000
max     60.000000    1499.000000     29.000000      5.000000      1.0      2068.000000      4.000000    100.000000      4.000000      5.000000  ...  4.000000      80.0      1.0      3.000
8 rows x 26 columns

In [9]: corr = df.corr()
corr
Out[9]:
   Age  DailyRate  DistanceFromHome  Education  EmployeeCount  EmployeeNumber  EnvironmentSatisfaction  HourlyRate  JobInvolvement  JobLevel  ... RelationshipSatisfaction  StandardHours  StockOptionLevel  TotalWorkingYears  Stock
Age  1.000000  0.010661  -0.000600  -0.001696  0.208334  NaN  -0.010145  0.010146  0.024887  0.028620  ...  0.509604  ...  0.553535  NaN
DailyRate  0.010661  1.000000  -0.004985  -0.016806  0.059900  NaN  -0.059900  0.018355  0.013381  0.046135  ...  0.002966  ...  0.007846  NaN
DistanceFromHome  -0.000600  -0.004985  1.000000  0.010492  -0.012402  NaN  -0.016075  -0.016075  0.013331  0.006783  ...  0.005037  ...  0.006587  NaN
Education  -0.001696  -0.016806  0.010492  1.000000  0.002070  NaN  0.042070  0.027128  0.016775  0.042438  ...  0.013589  ...  0.008118  NaN
EmployeeCount  0.208334  0.059900  -0.012402  0.002070  1.000000  NaN  NaN  NaN  NaN  NaN  ...  NaN  ...  NaN  NaN
EmployeeNumber  -0.010145  -0.059900  -0.012402  0.002070  0.002070  1.000000  0.017621  0.035179  -0.006888  -0.018519  ...  -0.069861  ...  NaN  NaN
EnvironmentSatisfaction  0.010146  0.018355  -0.016075  -0.027128  0.002070  0.017621  1.000000  -0.049857  -0.008278  -0.001212  ...  0.007665  ...  NaN  NaN
HourlyRate  0.024887  0.013381  -0.016075  0.016775  0.002070  0.035179  -0.049857  1.000000  0.042861  -0.027863  ...  0.001330  ...  NaN  NaN
JobInvolvement  0.028620  0.002966  0.005037  0.005037  0.002070  0.006783  -0.008278  0.042861  1.000000  -0.001476  ...  0.034297  ...  NaN  NaN
JobLevel  0.509604  0.002966  0.005037  0.005037  0.002070  0.006783  -0.008278  -0.027863  -0.021630  1.000000  ...  0.021642  ...  NaN  NaN
JobSatisfaction  -0.004892  0.002671  -0.003669  -0.011296  -0.004627  -0.006259  -0.015794  -0.021476  -0.001444  ...  -0.012454  ...  NaN  NaN
MonthlyRate  0.049755  0.000707  -0.017014  0.009461  -0.001263  -0.001263  -0.015297  -0.018271  0.050000  ...  0.025873  ...  NaN  NaN
MonthlyRate  0.028051  -0.002182  0.027473  -0.026804  -0.001263  -0.001263  -0.015297  -0.018271  0.050000  ...  -0.004085  ...  NaN  NaN
NumCompaniesWorked  0.259635  0.038153  -0.024251  0.126317  -0.001263  -0.001263  0.022157  0.015012  0.142501  ...  0.052723  ...  NaN  NaN
PercentSalaryHike  0.002634  0.022704  0.040426  -0.011111  -0.001263  -0.001263  -0.031701  -0.009062  -0.017205  ...  -0.040490  ...  NaN  NaN
PerformanceRating  0.001304  0.000473  0.027100  -0.004639  -0.001263  -0.001263  -0.029548  -0.002172  -0.029071  ...  -0.021222  ...  -0.031351  NaN
RelationshipSatisfaction  0.001445  0.007846  0.004587  -0.009118  -0.006881  -0.006881  0.007665  0.001330  0.034297  ...  0.021642  ...  1.000000  NaN
StandardHours  0.007846  0.002966  0.005037  0.005037  0.002070  0.002070  0.007665  0.001330  0.034297  ...  0.021642  ...  0.001330  NaN
StockOptionLevel  0.007846  0.002966  0.005037  0.005037  0.002070  0.002070  0.007665  0.001330  0.034297  ...  0.021642  ...  0.001330  NaN
TotalWorkingYears  0.007846  0.002966  0.005037  0.005037  0.002070  0.002070  0.007665  0.001330  0.034297  ...  0.021642  ...  0.001330  NaN
WorkLifeBalance  -0.002149  0.001455  -0.004639  0.016280  -0.001455  -0.001455  -0.002663  -0.002334  -0.005653  ...  0.002404  ...  0.002404  NaN
TrainingTimesLastYear  0.001962  0.002453  -0.003942  -0.025100  -0.001962  -0.001962  -0.019359  -0.009548  -0.015338  ...  0.019359  ...  0.002497  NaN
YearsAtCompany  -0.002149  -0.007846  -0.026556  0.008819  -0.001962  -0.001962  0.001030  0.027427  -0.004607  ...  -0.014617  ...  0.018964  NaN
YearsInCurrentRole  0.013109  -0.004055  0.009658  0.069114  -0.001962  -0.001962  -0.001458  -0.019482  -0.001375  ...  0.054739  ...  0.019367  NaN
YearsSinceLastPromotion  0.212801  0.009932  0.018945  0.002354  -0.001962  -0.001962  0.010007  -0.024106  0.000717  ...  0.398447  ...  -0.015233  NaN
YearsWithCurrManager  0.210613  -0.003229  0.010029  0.054256  -0.001962  -0.001962  0.016194  -0.026716  -0.024184  ...  0.353885  ...  0.033493  NaN
YearsWithCurrManager  0.202089  -0.026363  0.014406  0.069065  -0.001962  -0.001962  -0.009197  -0.004999  -0.020123  ...  0.029976  ...  0.375281  ...  0.000867  NaN
26 rows x 26 columns

In [10]: import matplotlib.pyplot as plt
import seaborn as sns
from scipy import stats
plt.subplots(figsize=(22,15))
sns.heatmap(corr,annot=True,cmap='coolwarm')

Out[10]:
<Axes: >

Age  1  0.011  0.0017  0.21
DailyRate  -0.011  1  -0.005  -0.017
DistanceFromHome  -0.0017  -0.005  1  0.021
Education  -0.21  0.017  0.021  1
EmployeeCount  -
EmployeeNumber  -0.01  -0.051  0.033  0.462
EnvironmentSatisfaction  -0.01  0.018  -0.016  0.027
HourlyRate  -0.024  -0.021  0.031  0.017
JobInvolvement  -0.03  0.046  0.0088  0.462
JobLevel  -0.031  0.003  0.0033  0.1
JobSatisfaction  -0.0049  0.031  0.0037  -0.011
MonthlyIncome  -0.0017  -0.005  1  0.021
MonthlyRate  0.028  0.022  0.027  0.028
NumCompaniesWorked  -0.03  0.038  0.029  0.31
PercentSalaryHike  -0.0017  -0.005  1  0.021
PerformanceRating  -0.0019  0.0047  0.027  0.025
RelationshipSatisfaction  -0.054  0.0078  0.0066  0.001
StandardHours  -
TotalWorkingYears  -0.08  0.042  0.045  0.014
TrainingTimesLastYear  -0.02  0.025  0.037  -0.025
WorkLifeBalance  -0.021  -0.038  0.027  0.069
YearsAtCompany  -0.31  -0.054  0.0095  0.009
YearsInCurrentRole  -0.021  0.0093  0.019  0.06
YearsSinceLastPromotion  -0.22  0.033  0.01  0.054
YearsWithCurrManager  -0.2  0.026  0.014  0.054
Age  DailyRate  DistanceFromHome  Education  EmployeeCount  EmployeeNumber  EnvironmentSatisfaction  HourlyRate  JobInvolvement  JobLevel  ... RelationshipSatisfaction  StandardHours  StockOptionLevel  TotalWorkingYears  Stock
Age  1.000000  0.010661  -0.000600  -0.001696  0.208334  NaN  -0.010145  0.010146  0.024887  0.028620  ...  0.509604  ...  0.553535  NaN
DailyRate  0.010661  1.000000  -0.004985  -0.016806  0.059900  NaN  -0.059900  0.018355  0.013381  0.046135  ...  0.002966  ...  0.007846  NaN
DistanceFromHome  -0.000600  -0.004985  1.000000  0.010492  -0.012402  NaN  -0.016075  -0.016075  0.013331  0.006783  ...  0.005037  ...  0.006587  NaN
Education  -0.001696  -0.016806  0.010492  1.000000  0.002070  NaN  0.042070  0.027128  0.016775  0.042438  ...  0.013589  ...  0.008118  NaN
EmployeeCount  0.208334  0.059900  -0.012402  0.002070  1.000000  NaN  NaN  NaN  NaN  NaN  ...  NaN  ...  NaN  NaN
EmployeeNumber  -0.010145  -0.059900  -0.012402  0.002070  0.002070  1.000000  0.017621  0.035179  -0.006888  -0.018519  ...  -0.069861  ...  NaN  NaN
EnvironmentSatisfaction  0.010146  0.018355  -0.016075  -0.027128  0.002070  0.017621  1.000000  -0.049857  -0.008278  -0.001212  ...  0.007665  ...  NaN  NaN
HourlyRate  0.024887  0.013381  -0.016075  0.016775  0.002070  0.035179  -0.049857  1.000000  0.042861  -0.027863  ...  0.001330  ...  NaN  NaN
JobInvolvement  0.028620  0.002966  0.005037  0.005037  0.002070  0.006783  -0.008278  0.042861  1.000000  -0.001476  ...  0.034297  ...  NaN  NaN
JobLevel  0.509604  0.002966  0.005037  0.005037  0.002070  0.006783  -0.008278  -0.027863  -0.021630  1.000000  ...  0.021642  ...  NaN  NaN
JobSatisfaction  -0.004892  0.002671  -0.003669  -0.011296  -0.004627  -0.006259  -0.015794  -0.021476  -0.001444  ...  -0.012454  ...  NaN  NaN
MonthlyIncome  0.049755  0.000707  -0.017014  0.009461  -0.001263  -0.001263  -0.015297  -0.018271  0.050000  ...  0.025873  ...  NaN  NaN
MonthlyRate  0.028051  -0.002182  0.027473  -0.026804  -0.001263  -0.001263  -0.015297  -0.018271  0.050000  ...  -0.004085  ...  NaN  NaN
NumCompaniesWorked  0.259635  0.038153  -0.024251  0.126317  -0.001263  -0.001263  0.022157  0.015012  0.142501  ...  0.052723  ...  NaN  NaN
PercentSalaryHike  0.002634  0.022704  0.040426  -0.011111  -0.001263  -0.001263  -0.031701  -0.009062  -0.017205  ...  -0.040490  ...  NaN  NaN
PerformanceRating  0.001304  0.000473  0.027100  -0.004639  -0.001263  -0.001263  -0.029548  -0.002172  -0.029071  ...  -0.021222  ...  -0.031351  NaN
RelationshipSatisfaction  0.001445  0.007846  0.004587  -0.009118  -0.006881  -0.006881  0.007665  0.001330  0.034297  ...  0.021642  ...  1.000000  NaN
StandardHours  0.007846  0.002966  0.005037  0.005037  0.002070  0.002070  0.007665  0.001330  0.034297  ...  0.021642  ...  0.001330  NaN
StockOptionLevel  0.007846  0.002966  0.005037  0.005037  0.002070  0.002070  0.007665  0.001330  0.034297  ...  0.021642  ...  0.001330  NaN
TotalWorkingYears  0.007846  0.002966  0.005037  0.005037  0.002070  0.002070  0.007665  0.001330  0.034297  ...  0.021642  ...  0.001330  NaN
WorkLifeBalance  -0.002149  0.001455  -0.004639  0.016280  -0.001455  -0.001455  -0.002663  -0.002334  -0.005653  ...  0.002404  ...  0.002404  NaN
TrainingTimesLastYear  0.001962  0.002453  -0.003942  -0.025100  -0.001962  -0.001962  -0.019359  -0.009548  -0.015338  ...  0.019359  ...  0.002497  NaN
YearsAtCompany  -0.002149  -0.007846  -0.026556  0.008819  -0.001962  -0.001962  0.001030  0.027427  -0.004607  ...  -0.014617  ...  0.018964  NaN
YearsInCurrentRole  0.013109  -0.004055  0.009658  0.069114  -0.001962  -0.001962  -0.001458  -0.019482  -0.001375  ...  0.054739  ...  0.019367  NaN
YearsSinceLastPromotion  0.212801  0.009932  0.018945  0.002354  -0.001962  -0.001962  0.010007  -0.024106  0.000717  ...  0.398447  ...  -0.015233  NaN
YearsWithCurrManager  0.210613  -0.003229  0.010029  0.054256  -0.001962  -0.001962  0.016194  -0.026716  -0.024184  ...  0.353885  ...  0.033493  NaN
YearsWithCurrManager  0.202089  -0.026363  0.014406  0.069065  -0.001962  -0.001962  -0.009197  -0.004999  -0.020123  ...  0.029976  ...  0.375281  ...  0.000867  NaN
26 rows x 26 columns

In [11]: plt.figure(figsize=(8,6))
sns.countplot(x='Attrition',data=df)
plt.title('Attrition Count')
plt.show()

In [12]: df['Attrition'].value_counts()
Out[12]:
No    1233
Yes    237
Name: Attrition, dtype: int64

In [13]: df.isnull().any()
Out[13]:
Age                False
Attrition          False
BusinessTravel     False
DailyRate          False
Department         False
DistanceFromHome   False
Education          False
EducationField     False
EmployeeCount      False
EmployeeNumber     False
EnvironmentSatisfaction  False
Gender             False
HourlyRate         False
JobInvolvement     False
JobLevel           False
JobRole            False
JobSatisfaction     False
MaritalStatus      False
MonthlyIncome      False
NumCompaniesWorked False
Over18             False
OverTime           False
PercentSalaryHike  False
PerformanceRating  False
RelationshipSatisfaction  False
StandardHours      False
StockOptionLevel   False
TotalWorkingYears  False
TrainingTimesLastYear  False
WorkLifeBalance    False
YearsAtCompany     False
YearsInCurrentRole False
YearsSinceLastPromotion  False
YearsWithCurrManager  False
dtype: bool

In [14]: #DATA VISUALIZATION

In [15]: attrition_counts = df['Attrition'].value_counts()
plt.figure(figsize=(8,6))
plt.pie(attrition_counts, labels=attrition_counts.index, autopct='%1.1f%%', startangle=90)
plt.title('Attrition Distribution')
plt.axis('equal')
plt.show()

Attrition Distribution
Yes
16.1%
No
83.9%

In [16]: plt.figure(figsize=(8,6))
sns.countplot(x='Attrition',data=df)
plt.title('Attrition Count')
plt.show()

Attrition Count
count
1200
1000
800
600
400
200
0
Yes No
Attrition

In [17]: plt.figure(figsize=(8,6))
sns.histplot(data=df, x='Age', kde=True)
plt.title('Distribution of Age')
plt.show()

Distribution of Age
Count
160
140
120
100
80
60
40
20
0
20 30 40 50 60
Age

In [18]: plt.figure(figsize=(35,8))
sns.boxplot(data=df)
plt.title('Box Plots for all the attributes')
plt.show()

Box Plots for all the attributes
20000
15000
10000
5000
0
Age  BusinessTravel  DailyRate  Department  DistanceFromHome  Education  EducationField  EmployeeCount  EmployeeNumber  EnvironmentSatisfaction  HourlyRate  JobInvolvement  JobLevel  JobRole  Laboratory Technician  JobRole_Manager  JobRole_Manufacturing Director  JobR
Age  BusinessTravel  DailyRate  Department  DistanceFromHome  Education  EducationField  EmployeeCount  EmployeeNumber  EnvironmentSatisfaction  HourlyRate  JobInvolvement  JobLevel  JobRole  Laboratory Technician  JobRole_Manager  JobRole_Manufacturing Director  JobR
Age  BusinessTravel  DailyRate  Department  DistanceFromHome  Education  EducationField  EmployeeCount  EmployeeNumber  EnvironmentSatisfaction  HourlyRate  JobInvolvement  JobLevel  JobRole  Laboratory Technician  JobRole_Manager  JobRole_Manufacturing Director  JobR
Age  BusinessTravel  DailyRate  Department  DistanceFromHome  Education  EducationField  EmployeeCount  EmployeeNumber  EnvironmentSatisfaction  HourlyRate  JobInvolvement  JobLevel  JobRole  Laboratory Technician  JobRole_Manager  JobRole_Manufacturing Director  JobR
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Age  BusinessTravel  DailyRate  Department  DistanceFromHome  Education  EducationField  EmployeeCount  EmployeeNumber  EnvironmentSatisfaction  HourlyRate  JobInvolvement  JobLevel  JobRole  Laboratory
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