runfile('D:/mydata/AI-ML/Assignments/Day 12/Statistical tests.py', wdir='D:/mydata/AI-ML/Assignments/Day 12')

Age Attrition ... YearsSinceLastPromotion YearsWithCurrManager

0 51 No ... 0 0

1 31 Yes ... 1 4

2 32 No ... 0 3

3 38 No ... 7 5

4 32 No ... 0 4

... ... ... ... ...

4405 42 No ... 0 2

4406 29 No ... 0 2

4407 25 No ... 1 2

4408 42 No ... 7 8

4409 40 No ... 3 9

[4410 rows x 24 columns]

Two Paired samples are EducationField and MonthlyIncome for Attrition

H0 is Two samples are significantly related and H1 is two samples are significantly not related

####################################################

0.0 0.0

Reject Hypothesis Ho and there is no correlation between EducationField and MonthlyIncome

####################################################

0.0 0.0

Reject Hypothesis Ho and there is no correlation between MonthlyIncome and Education

####################################################

7545.965161749023 0.0

Reject Hypothesis Ho and there is no correlation between MonthlyIncome and Education and EducationField

####################################################

0.0 0.0

Reject Hypothesis Ho and there is no correlation between MonthlyIncome and Education

####################################################

9790.846402286 0.0

Reject Hypothesis Ho and there is no correlation between MonthlyIncome and Education and EducationField

####################################################

BusinessTravel Non-Travel Travel\_Frequently Travel\_Rarely

Gender

Female 153 330 1281

Male 297 501 1848

7.929887577835395 0.01896910285626416

Reject Hypothesis Ho and there is no correlation between BusinessTravel and Gender