

Chi-Square Test Results:

Chi2 = 293.2256894644262, p-value = 9.856459400636179e-66

Phi Coefficient: 0.3069595955050608

Odds Ratio: 9.264326277749097

Rating Regression Results:

OLS Regression Results

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Dep. Variable:          rating    R-squared:                0.009
Model:                  OLS       Adj. R-squared:           0.008
Method:                 Least Squares    F-statistic:            10.95
Date:                  Wed, 06 Nov 2024    Prob (F-statistic):      1.85e-05
Time:                  16:21:26    Log-Likelihood:         -3178.6
No. Observations:      2445    AIC:                    6363.
Df Residuals:          2442    BIC:                    6381.
Df Model:               2
Covariance Type:       nonrobust
=====
               coef      std err          t      P>|t|      [0.025      0.975]
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const           6.6221      0.028    234.729      0.000      6.567      6.677
Bechdel        -0.1500      0.038    -3.916      0.000     -0.225     -0.075
Mako_Mori       0.1797      0.050     3.613      0.000      0.082      0.277
=====
Omnibus:          178.192    Durbin-Watson:          1.898
Prob(Omnibus):    0.000    Jarque-Bera (JB):       289.726
Skew:             -0.556    Prob(JB):               1.22e-63
Kurtosis:         4.268    Cond. No.                3.54
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Box Office Regression Results:

OLS Regression Results

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Dep. Variable:          boxOffice    R-squared:                0.004
Model:                  OLS          Adj. R-squared:           0.004
Method:                 Least Squares  F-statistic:              5.419
Date:                   Wed, 06 Nov 2024  Prob (F-statistic):      0.00449
Time:                   16:21:26      Log-Likelihood:           -48095.
No. Observations:       2445          AIC:                     9.620e+04
Df Residuals:           2442          BIC:                     9.621e+04
Df Model:                2
Covariance Type:        nonrobust
=====
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	coef	std err	t	P> t	[0.025	0.975]
const	5.579e+07	2.68e+06	20.790	0.000	5.05e+07	6.1e+07
Bechdel	4.721e+06	3.64e+06	1.296	0.195	-2.42e+06	1.19e+07
Mako_Mori	-1.549e+07	4.73e+06	-3.275	0.001	-2.48e+07	-6.22e+06

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Omnibus:                2019.340      Durbin-Watson:           1.867
Prob(Omnibus):           0.000        Jarque-Bera (JB):        55547.516
Skew:                    3.806         Prob(JB):                0.00
Kurtosis:                25.075        Cond. No.                3.54
=====
```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Spearman Correlation between Bechdel Test and Rating: -0.06024494711040979, p-value: 0.0028814297407031824

Spearman Correlation between Mako Mori Test and Rating: 0.04537503207383468, p-value: 0.024853975728102

Spearman Correlation between Bechdel Test and Box Office: -0.07411006584698135, p-value: 0.0002447550834418246

Spearman Correlation between Mako Mori Test and Box Office: -0.14169007544919754, p-value: 1.948889446034057e-12