

STATISTICAL ANALYSIS

Table of Contents

Task 4: ESG metric reporting requirements	3
Task 5: Statistical Inferencing	3
Task 6: Regression analysis – creating your model.....	4
References.....	6

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Task 4: ESG metric reporting requirements

An ESG report provides the way through which organizations can make proper disclosure to ensure regulatory compliance making proper disclosure help in the risk management process. As per the statement of Chang and Lee, (2022), ESG can improve the displacement of activities after predicting the potential risk of the business organization. The ESG metrics have also been well established on the graph based on female salaries along with the year experiences. The salaries based on the graph are recognized as near about 200000. It has also been observed that the majority of the women have earned between 150000 and 200000 (Aluchna *et al.* 2022). The majority of the women also earn nearly about 5000 as their net salary. Moreover, a lot of women are also effective to deal with salaries amounting to 100000.

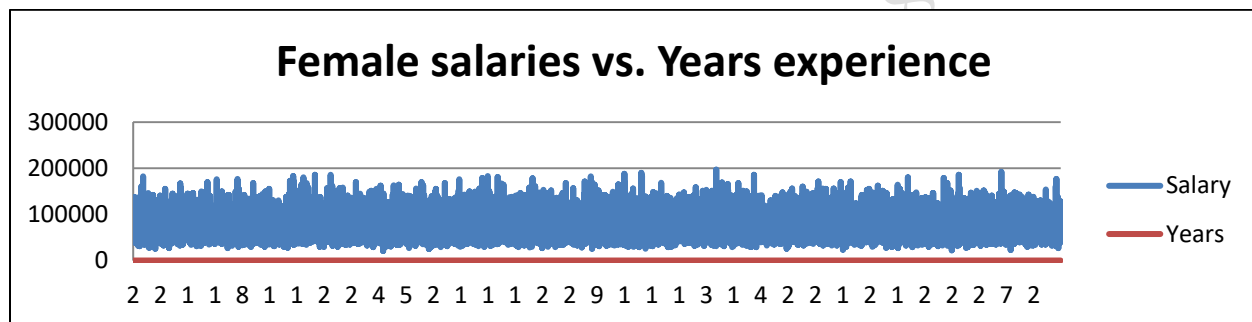


Figure 1: Female salaries vs. Years of experience

(Source: Self-Created)

Task 5: Statistical Inferencing

The importance of statistical interference is to assess the relationship between the dependent and the independent variables of the research study. As per the view of Chiaramonte *et al.* (2022), statistical interference also helps to provide a probable range of values by establishing the true values. As the output of the summary, the value of multiple R is recognized as 0.09 while the value of R Square is recognized as 0.01. In this context, the value of the adjusted R square is conducted as near about 0.01. Regarding this ANOVA analysis, it has been observed that the significant value of ANOVA analysis is considered 0.00.

Regression Statistics	
Multiple R	0.09

R Square	0.01
Adjusted R Square	0.01
Standard Error	22671.57
Observations	21990.00

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1.00	98773795385.75	98773795385.75	192.17	0.00
Residual	21988.00	11301832905.580.20	514000041.19		
Total	21989.00	11400606700.965.90			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	71369.52	225.84	316.02	0.020	70926.85	71812.19	70926.85	71812.19
X Variable 1	870.72	62.81	13.86	0.00	747.60	993.83	747.60	993.83

Table 1: Statistical Inferencing

(Source: Self-created)

The coefficient value of the x variable is considered as 870.72 and the p-value is recognized as 0.00. This enhances the significant value of the research study. Based on this analysis, it has been found that salaries are fluctuating the values from 747.60 to 993.83. These values are recognized as the salary value of the lower 95% and the upper 95%. Moreover, the t value is also recognized as near about 13.86 and shows that the amount of the salaries of women is getting fluctuated.

Task 6: Regression analysis – creating your model

Based on the regression statistics, the value of multiple R is recognized as 0.46 and the value of R square is recognized as 0.21. Moreover, based on the ANOVA analysis, the regression value is considered as 1.00 and the residual value is considered as 21988.00. In this context, the coefficient value is recognized as near about 6333.13 and the standard t value for the salaries is

recognized as near about 76.49. It has been opined by Aydoğmuş *et al.* (2022), the p-value is recognized as a statistical measurement that can help in assuming the true null hypothesis.

<i>Regression Statistics</i>	
Multiple R	0.46
R Square	0.21
Adjusted R Square	0.21
Standard Error	20236.65
Observations	21990.00

<i>ANOVA</i>					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1.00	2396035918.690.45	2396035918.690.45	5850.81	0.00
Residual	21988.00	9004570782.275.46	409522047.58		
Total	21989.00	1140060670.0965.90			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	57130.45	255.73	223.40	0.00	56629.19	57631.70	56629.19	57631.70
X Variable 1	6333.13	82.80	76.49	0.00	6170.85	6495.42	6170.85	6495.42

Table 2: Statistical Inferencing

(Source: Self-created)

This also helps the sturdy by indicating the fluctuation of the salaries and the value of lower 95% is recognized as 6170.85 while the value of Upper 95% is recognized as 6170.85. This value is signifying the economic fluctuation during the stability of the amount of salary. Thereafter, it can be said that this analysis is successful that helping to identify the economic fluctuation against the experiences of the year based on the amount of earnings of the female participants of organizations.

References

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