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Assignment 3

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| SUMMARY OUTPUT |  |  |
|  |  |  |
| *Regression Statistics* | |  |
| Multiple R | 0.826272314 |  |
| R Square | 0.682725937 |  |
| Adjusted R Square | 0.625039744 |  |
| Standard Error | 0.410845374 |  |
| Observations | 14 |  |
|  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ANOVA |  |  |  |  |  |  |  |  |  |
|  | *df* | *SS* | *MS* | *F* | *Significance F* |  |  |  |  |
| Regression | 2 | 3.9954097 | 1.997704859 | 11.835 | 0.0018 |  |  |  |  |
| Residual | 11 | 1.8567331 | 0.168793922 |  |  |  |  |  |  |
| Total | 13 | 5.8521429 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | *Coefficients* | *Standard Error* | *t Stat* | *P-value* | *Lower 95%* | *Upper 95%* | *Lower 95.0%* | *Upper 95.0%* |  |
| Intercept | -0.783476184 | 0.9422788 | -0.831469579 | 0.4234 | -2.857 | 1.29 | -2.8574 | 1.29047 |  |
| Satisfaction with Trade Price | 0.557957136 | 0.2331701 | 2.392918579 | 0.0357 | 0.0448 | 1.07 | 0.04475 | 1.07116 |  |
| Satisfaction with Speed of Execution | 0.734175363 | 0.1557382 | 4.714163297 | 0.0006 | 0.3914 | 1.08 | 0.3914 | 1.07695 |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

Y^ = -0.7835+0.5580x1+0.7342x2

R Square = 0.6827

The regression model estimated explain approximately 68% of the variations in values of the trade price and the speed of execution.

* For b1 p-value = 0.0357

p-value < 0.05. We reject the hypotheses that b1 =0; we can conclude that there is a positive relationship between the trade price and the overall score at 0.05 level of significant.

* For b2 p-value = 0.0006

p-value < 0.05. We reject the hypotheses that b2 =0; we can conclude that there is a positive relationship between the speed of execution and the overall score at 0.05 level of significant.

The relations of the trade price and the execution speed regarding the overall satisfaction meet my expectations. So, basically a positive review on both the trade price and the speed execution will result to a positive overall satisfaction with the electronic trades.

1. Interpretations

* If we hold the scores on speed of execution constant, a one-point increase on trade price correspond to an increase of 0.5580 in overall score.
* If we hold the scores on the trade price constant, a one-point increase on the speed of execution correspond to an increase of 0.7342 in overall score.

1. The predicted overall satisfaction

Y^ = -0.7835 + 0.5580(3) +0.7342(3)

= 3.0931

1. The respondents have also the option of “no opinion (0)”. This option should have not been included in the survey because a 0 opinion means no opinion which might means no satisfaction. it can make the estimate inaccurate as we do not include how many respondents selected this option.