*Regression:*

Independent variable, x = Age

Dependent variable, y = Points

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **SUMMARY OUTPUT** |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| *Regression Statistics* | |  |  |  |  |  |  |  |
| Multiple R | 0.036156423 |  |  |  |  |  |  |  |
| R Square | 0.001307287 |  |  |  |  |  |  |  |
| Adjusted R Square | -0.000376849 |  |  |  |  |  |  |  |
| Standard Error | 470.21903 |  |  |  |  |  |  |  |
| Observations | 595 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| ANOVA |  |  |  |  |  |  |  |  |
|  | *df* | *SS* | *MS* | *F* | *Significance F* |  |  |  |
| Regression | 1 | 171630.366 | 171630.366 | 0.776235903 | 0.378651755 |  |  |  |
| Residual | 593 | 131115820.1 | 221105.9362 |  |  |  |  |  |
| Total | 594 | 131287450.5 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  | *Coefficients* | *Standard Error* | *t Stat* | *P-value* | *Lower 95%* | *Upper 95%* | *Lower 95.0%* | *Upper 95.0%* |
| Intercept | 369.4813779 | 121.0076694 | 3.053371574 | 0.00236428 | 131.8256453 | 607.1371105 | 131.8256453 | 607.1371105 |
| Age | 3.985780304 | 4.52393643 | 0.881042509 | 0.378651755 | -4.89910635 | 12.87066696 | -4.89910635 | 12.87066696 |
|  |  |  |  |  |  |  |  |  |

*Discussion:*

Choosing age alone to explain points scored in a season was not a good choice as:

* *(Do the results have a good R Square value?)*

The results do not have a good R Square value. The low R Square value suggests that the number of points scored in the 2017 season cannot be explained by age.

* *(Is your choice statistically significant?)*

The results are not statistically significant as the p-value is much greater than 0.05.

* *(Explain what your coefficients mean.)*

The coefficients provide the least squares estimate.

*Scatter Plot:*

The regression analysis was performed to see how well age correlated with the number of points scored by a player during the 2017 season. As shown by the regression statistics above, the trendline generated does not fit the data well. Very The Multiple R value is very small, suggesting a limited, if any, relationship between age and the number of points scored.