
Coefficient of vacation

$$
\left(R^{2}\right)
$$

-Sum of Squares
T3 Multiple regression $\ddagger$ various
Sum of Squares


the regression hin is the
residual error ( $\varepsilon$ )
$\varepsilon=\sum\left(\hat{y_{i}}-y_{i}\right)^{2}$
prodicord a active l value
value of the of the the
it olsenation
obsenation
(based en the - Why do we
egestion) save the differ To make ap
Summing all our residuals is called sum of stapes errorphe


Sum of squares expla
$\rightarrow$ Total amount of varia
explained by the independent


Sum of Squares $T_{0}$


When you have multiple ind. Variables, $R^{2}$ is no longer valid.





Correlation is not sufficient for causation, but it is necessary.



| Model |  | Sum of <br> Squares | df | Mean Square | F | Sig. |
| :--- | :--- | ---: | ---: | ---: | :---: | :---: |
| 1 | Regression | 1058.441 | 1 | 1058.441 | 26.099 | $.000^{\mathrm{a}}$ |
|  | Residual | 1946.664 | 48 | 40.556 |  |  |
|  | Total | 3005.105 | 49 |  |  |  |

$$
\begin{aligned}
& \text { a. Predictors: (Constant), RTN } \\
& \text { b. Dependent Variable: PVT }
\end{aligned}
$$

Coefficients ${ }^{\text {a }}$

| Model | Unstandardized Coefficients |  | Standardized Coefficients | t | Sig. |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | B | Std. Error | Beta |  |  |
| (Constant) | 19.807 | 1.163 |  | 17.035 | 000 |



IBM SPSS Statistics Processor is ready


