Correlation and regression analysis summary:

Analysis was applied to the results (table 1) by using a linear correlation table and a linear regression graph to visualize any potential correlations with the standard deviation and the dataset, as well as, correlations with the dataset size and training difficulty.

Table

The result from the linear correlation table, (table 2) confirms our assumption that there was no correlation between the training difficulty and the dataset size as, the correlation coefficient was, -0.14, indicating neither a positive nor, a strong negative correlation; this table does show a positive correlation with a coefficient of 0.71, indicating that, there is some relationship with standard deviation and training difficulty.



Table

However, in the regression analysis (table 3), with standard deviation as the independent and training difficulty as the dependent variable, there shows an unreliable relationship with a low R square of 0.47 and a bad statistical significance of 0.12



Table

This would suggest that although there appears to be a high correlation, there is little reliability in our findings and a low statistical significance suggesting that, training difficulty cannot be predicted accurately with standard deviation