

Review of: "Decoding the Correlation Coefficient: A Window into Association, Fit, and Prediction in Linear Bivariate Relationships"

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Unfortunately, the paper merely presents basic textbook information on the well-known relationship between correlation and slope. The connection between slope, correlation, and standard deviation is apparent from a formula readily available in any statistical textbook. Regrettably, the authors emphasize correlation but fail to provide any details regarding the statistical significance of either the slope or correlation. This omission is crucial, especially when dealing with model building and its relation to standard deviation.

Furthermore, the paper's structure is challenging to follow as it begins with correlation, then delves into the coefficient of determination, only to return to the correlation coefficient once more. A more coherent and organized approach would greatly improve the paper's readability and clarity. Additionally, including information on the statistical significance of both slope and correlation would significantly enhance the value and applicability of the findings when constructing models.