Assessment 6 – Correlation Data Analysis

Giancarlo Perez-Flores

New Jersey City University Educational Technology Leadership

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Dr. Christopher Shamburg

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This report shows quantitative data analyzed for relationships using the Spearman Rho method. The study collected data through a questionnaire as numerical values and Likert scales. Since the data collected are rank-ordered ordinal values, the Spearman Coefficient is the best option to capture the correlation between the variables (Ramzai, 2020).

The researcher used SPSS software to analyze the data collected for correlations. Table 1 shows the correlation between the participants years of experiences and Likert scale question, how much they agreed with the statement, *I consider myself a tech-savvy educator*. The correlation coefficient of -.454 indicates a negative moderate relationship between the variables. Table 2 displays the correlation between how much the participants considered themselves tech-savvy and the professional development sought before the shutdown. The correlation coefficient of .459 indicates a moderate relationship between the variables. Table 3 shows the correlation between administration support for teachers, parents, and students during the shutdown, and whether students had the resources at home to be successful during the shutdown. The correlation coefficient of .278 indicates a weak relationship between the two variables.

Table 1

Correlation between years of experience and self-perceived tech-savviness

			I consider myself a tech-savvy educator.	How many years of experience do you have in education?
Spearman's rho	I consider myself a tech-savvy educator.	Correlation Coefficient	1.000	-.454
		Sig. (2-tailed)	.	<.001
		N	97	97
	How many years of experience do you have in education?	Correlation Coefficient	-.454	1.000
		Sig. (2-tailed)	<.001	.
		N	97	97

Table 2
Correlation between professional development taken before the shutdown and self-perceived tech-savviness

			I consider myself a tech-savvy educator.	Before the shutdown, I sought learning opportunities and professional development in educational technology independent of my school district.
Spearman's rho	I consider myself a tech-savvy educator.	Correlation Coefficient	1.000	.459
		Sig. (2-tailed)	.	<.001
		N	97	97
	Before the shutdown, I sought learning opportunities and professional development in educational technology independent of my school district.	Correlation Coefficient	.459	1.000
		Sig. (2-tailed)	<.001	.
		N	97	97

Table 3

Correlation between administration support and student technology resources during the shutdown

			My students have the technological resources at home to be successful during the shutdown.	The administration successfully supports students, teachers, and parents during the shutdown.
Spearman's rho	My students have the technological resources at home to be successful during the shutdown.	Correlation Coefficient	1.000	.278
		Sig. (2-tailed)	.	.006
		N	97	97
	The administration successfully supports students, teachers, and parents during the shutdown.	Correlation Coefficient	.278	1.000
		Sig. (2-tailed)	.006	.
		N	97	99

References

Ramzai, J. (2020, June 25). *Clearly explained: Pearson V/S Spearman correlation coefficient*.

Towards Data Science. https://towardsdatascience.com/clearly-explained-pearson-v-s-

spearman-correlation-coefficient-ada2f473b8