

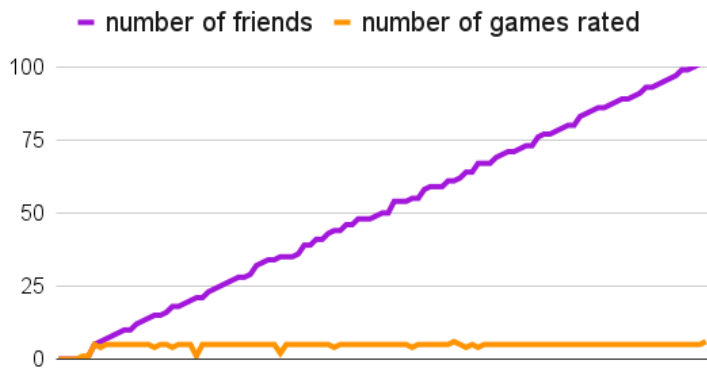
POLYBIUS: VIDEO GAME DATABASE

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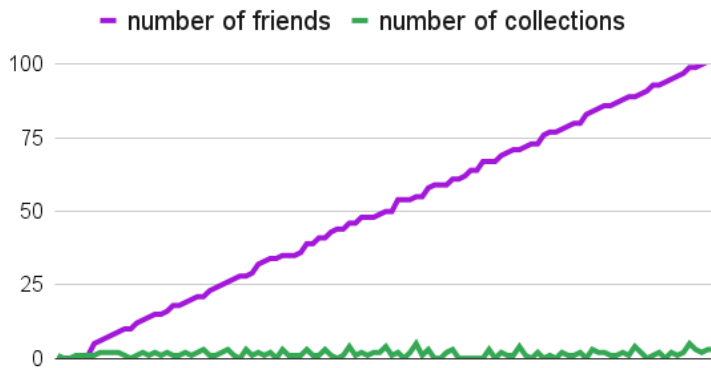
Hypothesis

The number of games a user has rated is the best predictor of how many followers they have.

Number of Friends and Number of Games Rated



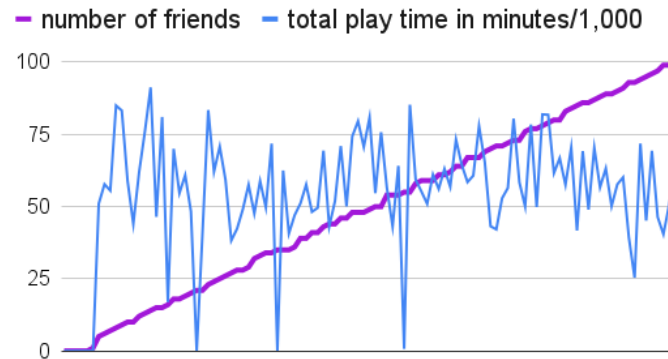
Number of Friends and Number of Collections



Results

The original factors compared in the graphs are not highly correlated, with the highest correlation coefficient being games rated at ~ 0.45 . Interestingly, total hours plays is correlated with number of games rated, with a coefficient of ~ 0.73 .

Number of Friends and Total Play Time



Cross-Correlation Coefficients

	Followers	Games Rated	Hours Played	Collections
Followers	1.000000	0.448885	0.271449	0.134511
Games Rated	0.448885	1.000000	0.727284	0.124942
Hours Played	0.271449	0.727284	1.000000	-0.056313
Collections	0.134511	0.124942	-0.056313	1.000000



Process

Technology Used:

- Google Sheets for graphs
- DataGrip for data
- Python pandas package for cross-correlation coefficient matrix

Conclusion

Our hypothesis was true, number of games rated is the *best* predictor out of those analyzed, however it was not correlated with the number of followers.