

The second source used an SVD (singular value decomposition) model and got an R^2 score of 27% and 41%, so again my models accuracy was off significantly.

The last source had an R^2 score of 97%, 96%, 98%, 94%, and 98% for linear, tree, random forest, SVM, and K-NN regression models, so my scores were drastically lower than these.

If I would have to do this project over again, I would make it a classifier instead of regression where it just returns their income bracket instead of a number. I feel this would help the accuracy of the model improve significantly.

Sources:

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- Satapathy, S. K., Saravanan, S., Mishra, S., & Mohanty, S. N. (2023). A Comparative Analysis of Multidimensional COVID-19 Poverty Determinants: An Observational Machine Learning Approach. *New Generation Computing*. https://doi.org/10.1007/s00354-023-00203-8