

Does income inequality (GINI) predict life expectancy across countries?



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Our Model

Predictor Variable: Income Inequality (GINI)

Outcome Variable: Life Expectancy (Years)

Context on GINI:

GINI = 0: Perfect Equality

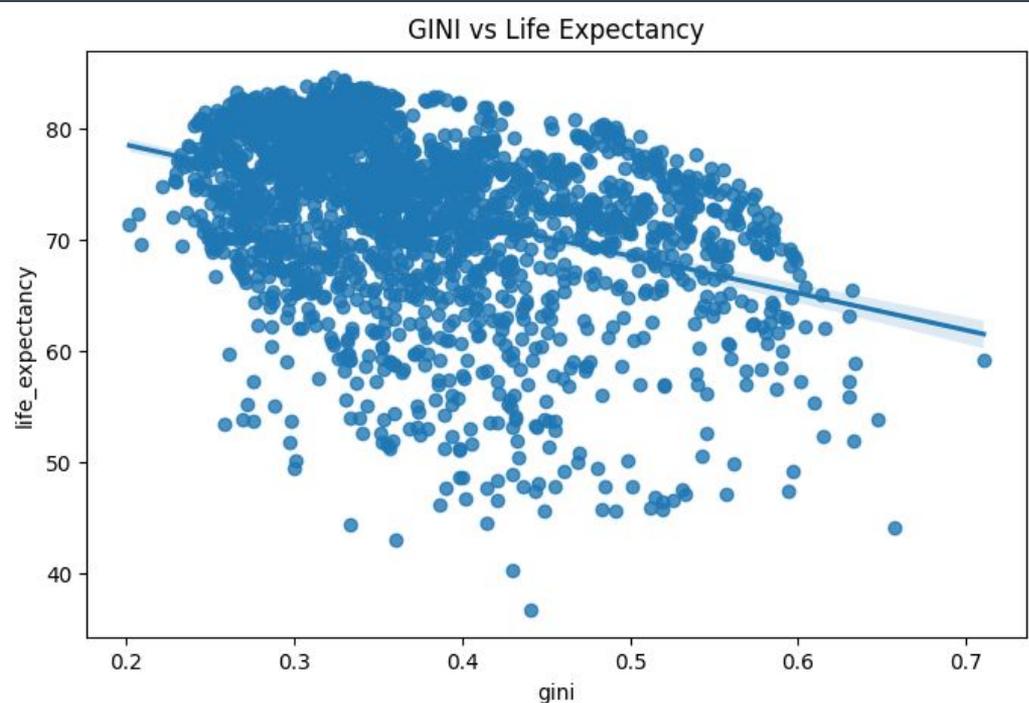
GINI = 1: Perfect Inequality

Avg Developed Nations: ~0.4 or <

Avg Developing Nations: ~0.5 or >

Key findings:

- Negative linear relationship
- Scatter plot and simple linear regression confirm this



Main conclusions:

- Income inequality can be used as a statistically significant predictor for life expectancy. $p < 0.001$
- Countries with a high GINI coefficient predict a lower life expectancy
- Income inequality is not the only predictor of life expectancy as there are many confounding variables like access to healthcare, secondary education levels, etc.