Non-Sensitive Model Considerations

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Predicted Immortality – Saad, James, and Nirusan

Non-Sensitive Model Considerations

For the predictive model that excludes sensitive geographical features, we chose to consider only the year, gdp_per_capita, population_mln, schooling, and economy_status_developed as features, as opposed to all of the available features for different reasons below:

Considerations:

1. Some features may stigmatize the country as they contain sensitive information that may paint the country in a negative image, such as incidents_HIV, infant_deaths, under_five_deaths, and adult_mortality. By excluding them, country representatives with high numbers of these statistics in their countries can feel more at ease, as they avoid portraying their country in a negative image to get their predictions.

2. We removed alcohol consumption because we believed not all countries follow the same religious and cultural practices, like Islamic countries, which may not wish to provide that information to the model to obtain a prediction.

3. We excluded the Hepatitis_B, Measles, Polio, and Diphtheria immunisation features as well, as we believed that developing countries may have inconsistent data on these factors or far lower rates for them, and it may be harder for those countries to provide or disclose that data.

4. Finally, we also excluded the thinness and BMI features, as they do not accurately reflect the whole physiques of individuals of a country, and countries may not wish to have their population seen in a negative way or judged negatively by the inclusion of this sensitive data.

In conclusion, this leaves us with our features stated at the start, which we felt would be suitable for any country to use, easily attainable, and without fear of any negative repercussions or consequences, should a country not consent to using the advanced model with all of the features.

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