

Capstone Two Project: on Life Expectancy of the world countries

Dataset: Life-Expectancy.csv has info for 2015 on the life expectancy (LE) of the world countries,
along with status (developed/developing), adult mortality, infant deaths, BMI (body mass index),
GDP and Schooling

Data cleaning:

Missing values (NAN's) are replaced with mean values, checked for duplicates

Selection of Features:

Life Expectancy (Sierra Leone has only 51 years(min), Slovenia has 88 years(max)
Country: The countries of the world
Status (Developed/Developing)
Adult Mortality (- 0.79 correlation with LE)
Infant Deaths (no significant correlation with LE)
BMI: Body mass index (0.52 correlation with LE)
GDP and
Schooling (0.82 correlation with LE)

Metrics for Model performance:

Mean Absolute Error: 1.87 (Random Forest Regression **Model prediction 98% of the data points**)
Mean Squared Error: 6.45
Root Mean Squared Error: 2.54

Recommendations: As Schooling shows 0.82 correlation with life expectancy, organizations like the Association for Childhood Education International (ACEI) can help childhood education, which also can boost Life Expectancy.