**Predicting life expectancy using machine learning**

* **Project Summary**

In this project we try to create a new machine learning model based on the data provided, to predict the life expectancy in a country given various features.

Life expectancy is a statistical measure of the average time a human being is expected to live. This project provides a way to predict average life expectancy of people living in a country when various factors such as year, GDP, education, alcohol intake of people in the country, expenditure on healthcare system and some specific disease related deaths that happened in the country are given.

* **Project Scope**

    Life expectancy is a statistical measure of the average time a human being is expected to live. The scope of this project is to predict the average life of a person in a country based on various factors.

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* **Functional Requirements**

1. Collect data including various features for accurate results.

2. Since it is difficult to deal with country names in dataset, hence we decided to exclude these countries from the final dataset.

* **Technical Requirements**

1. The merged dataset by using the databases in the csv formats.

2. The given dataset contains many null values and categorical variables, so data pre-processing is required.

3. Python support to build typical multi-linear Regression model.

4. Various python libraries for data visualization.

* **Software Requirements**
* Python IDE
* Excel
* IBM Cloud
* IBM Watson