Predicting Life Expectancy Using Machine Learning

Project Summary:

Life expectancy is a statistical measure of the average time a human being is expected to live, Life expectancy depends on various factors: Regional variations, Economic Circumstances, Sex Differences, Mental Illnesses, Physical Illnesses, Education, Year of their birth and other demographic factors. This problem statement 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 Requirements:

- Basic knowledge of Programming
- Detailed Knowledge of Supervised Machine Learning Algorithms

Functional Requirements:

- Data-set: The data is considered from a period of 2000 to 2015 for all the countries. Important immunisation like Hepatitis B, Polio and Diphtheria will also be considered. In a nutshell, this study will focus on immunisation factors, mortality factors, economic factors, social factors and other health related factors as well.
- Data Preprocessing
- Feature Engineering
- Model Selection

Technical Requirements:

- Tableau Analysis
- Regression Algorithms

Software Requirements:

- Python IDE,
- IBM cloud,
- IBM Watson studio,
- Node-RED

Project Team: Individual

Reference:

- https://www.kaggle.com/kumarajarshi/life-expectancy-who