Predicting Life Expectancy Using Machine Learning

Project Scope

Project Summary

A typical Regression Machine Learning project leverages historical data to predict insights into the future. This problem statement is aimed at predicting Life Expectancy rate of a country given various features.

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

- create an ML model for predicting Life Expectancy
- factors for prediction include Regional variations, Economic Circumstances, Sex Differences, Mental Illnesses, Physical Illnesses, Education, Year of their birth and other demographic factors

Functional Requirements

- any system with good internet connectivity
- utilising IBM Watson Services
- preposessing dataset
- Data set for training the ML model

Technical Requirements

- Python
- Machine Leaning

- IBM Cloud Services

Software Requirements

- GitHub
- IBM Cloud
- IBM Watson
- Node-Red

Project Deliverable

Able to predict approximate life span of a person given his/her Regional variations, Economic Circumstances, Sex Differences, Mental Illnesses, Physical Illnesses, Education, Year of their birth and other demographic factors.

Project Team

Members: 1
Member Name: Khwaja Bilkhis

Project Schedule

Duration: 1 month
Month: July