Predicting Life Expectancy Using Machine Learning

**Date: 23.05.2020**

**Project Objective:**

This project's objective is to predict the life expectancy of a country using Machine Learning given various features.

**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.

The project relies on the accuracy of data. The Global Health Observatory (GHO) data repository under the World Health Organization (WHO) keeps track of the health status as well as many other related factors for all countries the data-sets are made available to the public for the purpose of health data analysis. The data-set related to life expectancy, health factors for 193 countries have been collected from the same WHO data repository website and its corresponding economic data was collected from the United Nations website. Among all categories of health-related factors, only those critical factors were chosen which are more representative.

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.

This project will use Regression to predict the life expectancy of the people in a country.

**Functional Requirements:**

The project must take in inputs like name of the country, year, status and be able to use the trained model to predict and display the life expectancy of the country.

**Technical Requirements:**

* IBM Cloud
* IBM Watson Studio
* NODE-RED

**Project Deliverables:**

The project must be able to display the predicted life expectancy of the country after getting relevant details from the user.

**Project Team:**

Krishna Sharma S

**Project Schedule:**

The project must be completed within 29 Days