PREDICTING LIFE EXPECTANCY USING MACHINE LEARNING

PROJECT PLANNING & KICKOFF

PROJECT SCOPE, SCHEDULE, TEAM & DELIVERABLES:

PROJECT :

Predicting Life Expectancy using Machine Learning

KICKOFF DATE:

10 June 2020

PROJECT SUMMARY:

Problem Statement:

This problem statement is aimed at predicting Life Expectancy rate of a country given various features.

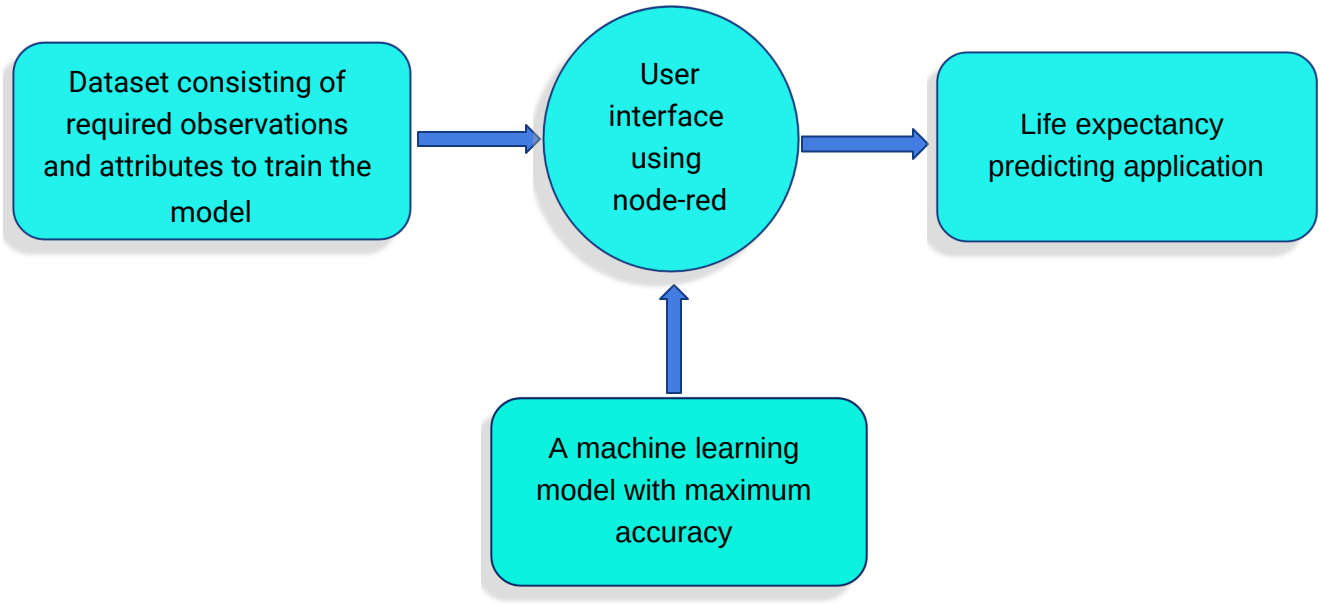
Theory:

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:

1. A Dataset with required features to work upon.
2. A Supervised Machine learning Regression algorithm with maximum accuracy to be trained and tested on the dataset.

FUNCTIONAL REQUIREMENTS:



TECHNICAL REQUIREMENTS:

The Project requires in depth knowledge of IBM Services. The User Interface is built on Node-Red which is an IBM Application and the backend uses Machine Learning Algorithm which is a typical Regression Model.

SOFTWARE REQUIREMENTS:

- IBM Cloud
- IBM Watson Studio
- Node-red

PROJECT DELIVERABLES:

The Project delivers a user interface which works on machine learning to predict the life expectancy by taking an input dataset consisting of all the various attributes that affect the model and observations to train it and provide accurate results.

PROJECT TEAM:

Individual Project
Member: Deekshya Dash

PROJECT SCHEDULE:

This project is scheduled to be completed by 30 June 2020 with completion of all steps mentioned:

1. Project Planning and Kickoff
2. Explore IBM Cloud Platform
3. Explore IBM Watson Services
4. Predicting Life Expectancy with python
5. Predicting Life Expectancy without python