**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**

* Developing a machine learning model which will be able to predict the life expectancy of an individual according to country ,gender etc.
* Developing a front-end for this model in which user will be able to

**Technical Requirements**

* The system shall be available 99.99% of the time for any 24-hour period

**Functional Requirements**

* Any user must be able to enter in the details and able to get the accurate prediction of life expectancy

**Software Requirements**

* Python IDE
* Excel
* IBM Cloud
* IBM Watson

**Project Deliverables**

* A fully functional web application in which user is able to enter the details and get the average life expectancy .The data will be fed into our machine learning model which will make an accurate prediction.

**Project Team**

* Dhanush Amin (Individual)

**Project Schedule**

* Building the machine learning model with python

Building the node red front end for the model.