**Project Name: Predicting Life Expectancy using Machine Learning**

Project Manager: Rishab Kumar

**PROJECT SCOPE DOCUMENT**

**Problem Statement:**

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 SUMMARY:**

The aim of this project is to predict life expectancy of people in a country. The model

predicts according to several factors related to the person and the country they reside.

Some factors are: illness, age, alcohol intake, financial status of the person also the

healthcare system and facilities provided by the country, immunization related factors,

economical factors, history of disease in the country and many other factors.

**PROJECT REQUIREMENTS:** An appropriate dataset is needed to build the model.

**FUNCTIONAL REQUIREMENT:**

Input values to the fields such as 'country', 'BMI', 'Total expenditure' , 'measles', 'Status', HIV/AIDS', 'Alcohol' , 'percentage expenditure' and etc to the blank fields .

Deployed machine learning model with maximum accuracy score

Predicted Life Expectancy value

**TECHNICAL REQUIREMENTS**: Computer/Laptop, Minimum 2.2GHz Processor, Any

Operating System.

**SOFTWARE REQUIREMENTS:** IBM Watson, IBM Machine Learning Services, Github,

Python v3, IBM Notebook / Jupyter Notebook.

**PROJECT DELIVERABLES:**

The project is about predicting the life expectancy of people in a country using health,

social, and economic variables. The country can improve factors like healthcare system,

immunizations, etc to increase the life expectancy of people living in the country from

the predictions made by the model. User has to enter various fields like the adult

mortality, GDP, diseases, etc of the country he resides in and can find his life

expectancy.

**PROJECT TEAM** : Individual project.

**PROJECT SCHEDULE:** The project is to be completed in 1 month and work for atleast 5 days a week. The project can be divided into two phases, one to build the model and the other for UI.