***PROJECT NAME : PREDICTING LIFE EXPECTANCY USING MACHINE LEARNING***

Application ID: SPS\_APL\_20200003207 Date:11/06/2020

#### **PROJECT SCOPE DOCUMENT**

###### ***1. PROJECT SUMMARY:***

A typical Regression Machine Learning project leverages historical data to predict insights to 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 variances, Economic circumstances, Sex, Mental illness, Physical illness 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 GDP, year, education, alcohol intake of people in the country , expenditure on health care system and some specific diseases related deaths that happened in the country are given.

###### **2. PROJECT REQUIREMENTS:**

Project requirements are defined as features, functions, or tasks that must be completed in order to successfully wrap a project.

1. FUNCTIONAL REQUIREMENTS:

Predicting the life expectancy rate of a country

ii. TECHNICAL REQUIREMENTS:

Python, IBM cloud, IBM Watson

iii. HARDWARE REQUIREMENTS:

Processor : i3 7th gen or higher

Speed : 2GHz or more

Hard disk space : 10GB or more

iv. SOFTWARE REQUIREMENTS:

Scikit-learn, matplotlib, Operating system- windows or Linux preferably.