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

**Application ID: SPS\_APL\_20200003767 Date:** 24/05/2020

**PROJECT SCOPE DOCUMENT**

1. **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 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 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.

1. **PROJECT REQUIREMENTS:** Project requirements are defined as the features, functions, or tasks that must be completed in order to successfully wrap up a project.
   1. **FUNCTIONAL REQUIREMENTS:**

Predicting the life expectancy rate of a country.

* 1. **TECHNICAL REQUIREMENTS:**

Python, IBM Cloud, IBM Watson.

* 1. **HARDWARE REQUIREMENTS:**

Processor: i3 7th gen or higher

Speed: 2GHz or more

Hard disk space: 10GB or more

* 1. **SOFTWARE REQUIRMENTS:**

Packages like Numpy , pandas, matplotlib , sklearn , Scipy.