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

**Kickoff Date:** 20th May,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 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.

## 2.Project Requirements:

**2.1Functional Requirements:**

Predicting the life expectancy rate of a country.

**2.1Software Requirements:**

Python,IBM Cloud,IBM Watson

## 3.Project Deliverables:

The ML service created is able to predict the life expectancy rate of a given country.

**Regular Reports:** Project Documentation is archived regularly, in case if we need to take that information to the next phase or even subsequent project.

**Final Report:**A project Demonstration video is uploaded to SmartInternz git repository.

**Learning Outcome:**Familiarised in using IBM cloud services and IBM Watson Studio for implementing ML services.

## 4.Project Schedule:

The project revolves around mainly these 6 milestones:

1. **Project Planning & Kickoff**
2. **Explore IBM Cloud Platform**
3. **Explore IBM Watson Services**
4. **Introduction to Watson Studio**
5. **Predicting Life Expectancy with python**
6. **Predicting Life Expectancy without python**

The project has to be completed within a month with expected outcome.