Project Scope Document

Agenda

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

**Date -** 20 May 2020

**Team Member -** Harshit Garg

**1. Project Summary** - It is a machine learning project to predict the life expectancy of people around the world, living in different countries and regions on IBM cloud using a regression model. The secondary aim of this project is to learn IBM Watson.

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 the 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 the healthcare system and some specific disease-related deaths that happened in the country are given.

**2. Project Requirements -**

**2.1 Functional Requirements** - Predicting Life Expectancy

**2.2 Technical Requirements** - Python, IBM Cloud, IBM Watson, Machine Learning, web development

**2.3 Software Requirements** -

OS - Ubuntu,

Browser - Google Chrome,

Jupyter Notebook,

Anaconda Navigator

**3. Project Deliverables -**

* Project Documentation
* ML Prediction Model
* Python Code
* Node-Red Flow Diagram

**4. Project Team -** Harshit Garg

**Project Schedule -**

* Total Duration of Project - 4 Weeks
* First Week - Learn About IBM Services (Cloud and Watson).
* Second Week - Making models using python up to the standard required.
* Third Week - Making models without using python up to the standard required.
* Fourth Week - Refining the projects in order to achieve better results.