**Project Name** : Predicting Life Expectancy Using Machine Learning-SB53841  
   
**Project Description**:

A typical Regression Machine Learning project leverages historical data to predict insights into the future. This problem statement is aimed at predicting the 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 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 healthcare system and some specific disease-related deaths that happened in the country are given.

**Project Scope ,Schedule ,Team & Deliverables**:

**Project Team** : Individual(MURALIKRISHNA POLLAIMANDALA)  
   
  **Project Summary**:

* This Project will predict the average time a human being is expected to live based on some factors.
* A country can predict the expected life of their citizens.According to that ,the country can take necessary preventive measures to improve the healthcare and other resources.
* This will serve as an example for countries assess to improve life expectancy for their citizens.
* This also helps in suggesting a country which area should be given importance in order to efficiently improve the life expectancy of its population.

**Project Requirements:**

* **Functional Requirement**:  
   Predicting life expectancy rate of a country.
* **Technical requirements:**  
  **Software Requirements**:Python,IBM Cloud, IBM Watson,Zoho writer  **Hardware Requirements**: processor-i3 7th generation or higher

**Speed**  : 2GHz or more   
 **Space**  : 10GB or Higher  
  **Ram**  : 2GB or Higher

**Life expectancy with python**:

* Collect dataset required for the project from the extenal sources(kaggle flatform).
* Create necessary IBM cloud services and also create Watson studio which is avalible in the IBM services.
* Configure the watson studio and create Machine Learning service.
* Import dataset in to the Jupyter Notebook avalible in IBM watson.
* code in to the Jupyter Notebook.
* Build Node-RED flow to integrate MLservice.

**Deliverable**:  
 A machine learning model that will predict life expectancy(software).

**Out of Scope**:  
 In the project, the user will not able to modify or not able to increase the   
 accuracy of the ML model.