Project Scope, Schedule, Team & Deliverables

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

**Kickoff Date** : 19th May, 2020

**Duration** : 29 days

**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.

**Project Requirements** - The following steps are involved in the project requirements:

1. Define task
2. Collect data
3. Testing and evaluation
4. Deployment and integration
5. Monitor and maintain
6. Model refinement
7. Model exploration

**Technical Requirements** - Python, IBM Cloud, IBM Watson

**Software Requirements** - Jupyter Notebook, IBM Cloud Account, IBM Watson Studio, Node-RED, GitHub, Zoho Writer, Slack

**Project Deliverables** - The outcome of the project will be a Machine Learning model which will predict the life expectancy of individuals in a country.

**Project Schedule** - The project schedule is as follows:

### 1. Collect The Dataset For The Project

### 2. Create Necessary IBM Cloud Services

### 3. Create A Watson Studio Project

### 4. Create A Jupyter Notebook In IBM Watson And Import Data

### 5. Build A Machine Learning Model And Create Endpoints For Node-RED Integration

### 6. Build Node-RED Flow To Integrate ML Services