**Project name :** IISPS\_INT\_1984\_Predicting Life Expectancy using Machine Learning

**Project manager :** Devshri Pohare **Date:** 27-05-2020

**Project summary:** Life expectancy is the expected (in the statistical sense) number of years of life remaining at a given age. It is denoted by e''x'', which means the average number of subsequent years of life for someone now aged ''x'', according to a particular mortality experience. Machine learning use previously gathered data to predict the future happenings.

This prediction is not 100% accurate but can be wonderful when correct techniques are applied. Through this project we aimed at predicting Life Expectancy rate of a country considering various features. Life expectancy is a statistical measure of the average time a human being is expected to live; it depends on lot of factors as: Infant death, Alcohol, Percentage expenditure, Polio, Thinness, GDP, and Schooling. The data needed to predict life expectancy in humans is relatively easy to identify compared with acquiring the data for industrial products or wild animals, for example. For wild animals, life expectancy can often only be calculated by capturing, marking and recapturing the animals.

**Project requirements:-**

**1. Functional requirements:** Predicting the life expectancy rate of a country.

**2. Technical requirements:** Python, Jupyter, IBM cloud, IBM Watson

**Project description:** The project will be developed with the help of IBM technologies which includes the machine learning service, the auto AI service, the cloud platform and also GitHub. By considering the necessary factors the project will achieve the best results on future prediction.

The programming language used for the project is python. The project also includes the node red flow for project integration.

**Project deliverable:** The aim of the project is to develop a model which will predict the life expectancy with the help of given data. The data includes a lot many factors that affects the life period of a human. With the help of suitable regression type the model will be able to predict the life expectancy of peoples from a particular geographical area.