

Predicting Life Expectancy using Machine Learning

Project Manager: Abraham Tony

Project Scope:

- **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**

To do any Machine Learning project, the basic requirements is the relevant data set with respect to the project subject. So, dataset of different persons attributes is needed to do this project.

- **Functional Requirements**

Functional requirements may involve calculations, technical details, data manipulation and processing, and other specific functionality that define what a system is supposed to accomplish. Behavioral requirements describe all the cases where the system uses the functional requirements, these are captured in use cases.

1. A Supervised Machine learning Regression algorithm with maximum accuracy to be trained and tested on the dataset.
2. The Dataset consists of 21 columns excluding the predicting column i.e. Life expectancy.

- **Technical Requirements**

To do this project, certain technical requirements are needed. They are a good knowledge in Python language. One should know how to do in IBM Cloud and IBM Watson.

1. Computer/laptop
2. Operating System: Any OS(Linux preferred)

- **Software Requirements**

IBM Watson, IBM Machine Learning tools, Github, Python, Jupyter Notebook

Project Deliverables

Projects create deliverables, which are simply the results of the project or the processes in the project. That means a deliverable can be something as big as the objective of the project itself or the reporting that is part of the larger project.

From this project, problem statement is aimed at predicting Life Expectancy rate of a country given various features.

Project Team

Individual Project

Project Schedule

This project is scheduled for 30 days. We will be working with maximum effort to complete the project on time.