

Project Scope

Project Name	PREDICTING LIFE EXPECTANCY USING MACHINE LEARNING
Kick-off Date	9th June, 2020
Project Manager	Ashutosh Sharma

Project Summary:

A typical Regression Machine Learning Project leverages historical data to predict insights into the future. This problem statement is aid 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 illness, Physical illness, 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 Requirements:

- Life Expectancy dataset
- IBM Cloud Services
- Watson Studio
- Building ML Models with Python
- Creating End-points for Node-RED Integration

Functional Requirements:

- Life Expectancy dataset
- IBM Cloud Services
- Jupyter Notebook

Technical Requirements:

- Creating Notebook in IBM Watson
- Importing data to Watson
- Building ML Models with Python
- Creating End-points for Node-RED Integration

Software Requirements:

- IBM Cloud Services
- IBM Watson Studio

Project Deliverables:

- Project Documentation.
- A Machine Learning model that will predict life expectancy.
- IBM Watson Studio Auto AI generated model.
- Node red flow diagram

Project Team:

This is a solo project under SmartBridge by Ashutosh Sharma.

Project Schedule:

This project is scheduled for 30 days. That means we need to build a web application with integration to all these services & deploy all the services on IBM Cloud Platform within 30 days of span i.e., June 6th to July 7th 2020