**Internship Title:**

Predicting Life Expectancy using Machine Learning - SB53908

**Project name:** **-**

**Predicting Life Expectancy Using Machine Learning.**

**AIM & PURPOSE:**

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 OBJECTIVES:**

The objective of the project Is to predicate life expectancy rate of a country using machine learning with python and without python.ln order to achieve the goal of the study, few experiments are performed as below:

• Collect the Dataset required for the project from external sources.

• Create necessary IBM cloud services and also create Watson studio which Is present in IBM cloud services.

• Configure the Watson studio and create Machine Learning service

• Create a Jupyter Notebook in IBM Watson and Import the data set which is downloaded earlier.

• Fill the Jupyter Notebook with required python code.

• Build Node-RED Flow to Integrate ML services

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**PROJECT REQUIREMENTS:**

**i. FUNCTIONAL REQUIREMENTS:**

* Python,IBM Cloud, IBM Watson

**ii. TECHNICAL REQUIREMENTS:**

* Processor INTEL CORE i3
* speed: 2GHZ or more Hard Disk
* Space: 10GB or Higher
* RAM: 2GB or Higher

**iii.Software Requirements:**

* Node red application
* Jupyter notebook

**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.

**TEAM:** Individual

**NAME:** PRATAP YAMPALLA