**PROJECT SCOPE DOCUMENT**

### PROJECT GOAL: Predicting Life Expectancy Using Machine Learning

**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:**

TECHNICAL REQUIREMENTS: Python, IBM Cloud, IBM Watson

HARDWARE REQUIREMENTS: i3 7th Gen or higher processor, 2 GHz+ speed, 16 GB RAM

SOFTWARE REQUIREMENTS: Windows OS, IBM Watson, Python

**PROJECT DELIVERABLES:**

* Project documentation
* ML Model using IBM Watson
* Node-Red flow for Auto AI Integration

**PROJECT TEAM:**

PROJECT MANAGER: Shivani Chauhan

**PROJECT SCHEDULE:**

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| --- | --- | --- |
| **TASK** | **PLANNED START DATE** | **PLANNED END DATE** |
| Project planning & kick-off | 19-05-2020 | 21-05-2020 |
| Exploring IBM Cloud | 22-05-2020 | 23-05-2020 |
| Exploring IBM Watson | 24-05-2020 | 26-05-2020 |
| Introduction to Watson Studio | 27-05-2020 | 05-06-2020 |
| Predicting Life Expectancy w/ Python | 06-06-2020 | 12-06-2020 |
| Predicting Life Expectancy w/o Python | 13-06-2020 | 18-06-2020 |