Project Title: Predicting Life Expectancy using Machine Learning - SB20922

Project ID: SPS_PRO_215

Project Scope, Schedule, Team & Deliverables

Project Summary

Life expectancy is a statistical measure of the average time a human being is expected to live. 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. The dataset containing the features mentioned above will help to predict the life expectancy of a human being. A typical regression machine learning algorithm will predict the the life expectancy of a human being from the different factors given.

Project Requirements

Cloud for deploying projects
Watson studio for building AI projects

Functional Requirements

high performance, accurate result, efficiency, platform independent

Technical Requirements

knowledge of python, IBM watson, IBM cloud

Software Requirements

Watson studio, IBM cloud, Slack, Zoho

Project Deliverable

By this Project, it will be easier for a country to determine the predicting factor which is contributing to lower value of life expectancy. This will help in suggesting a country which area should be given importance in order to efficiently improve the life expectancy of its population.

Project Team

Invidiual project

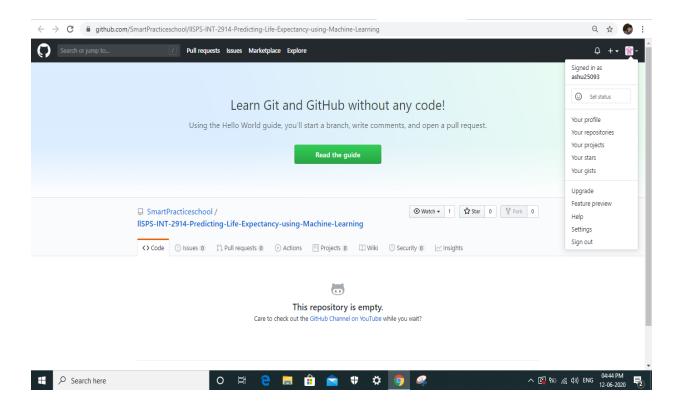
Project Schedule

- -> 1 day for Project Scope, Schedule, Team & Deliverables
- -> 1 day for Setup The Development Environment
- -> 0.5 Days for Create IBM Cloud Account
- -> 1 days for Create A Node-RED Starter Application
- -> 0.5 Days for Explore IBM Watson Usecases
- -> 3 Days for Explore IBM Watson Machine Learning
- -> 2 Days for Build Your Own ML Model In IBM Watson Studio
- -> 1 Days for Automate ML model
- -> 1 Days for Collect The Dataset For The Project
- -> 2 Days for Create Necessary IBM Cloud Services
- -> 2 Days for Create A Watson Studio Project
- -> 1 Days for configuring Watson stud

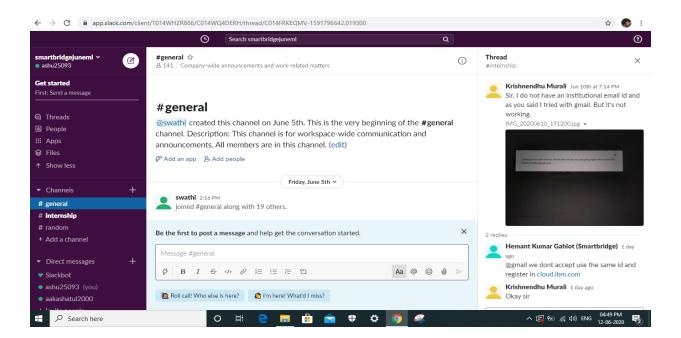
- -> 1 Days for Create Machine Learning Service
- -> 0.5 Days for Create A Jupyter Notebook In IBM Watson And Import Data
- -> 2 Days for Build A Machine Learning Model And Create Endpoints For Node-RED Integration
- -> 2 Days for Build Node-RED Flow To Integrate ML Services
- -> 1 Days for Import Dataset And Create AUTO AI Experiment
- -> 1 Days for Build Node-RED Flow To Integrate AutoAl

Setup The Development Environment

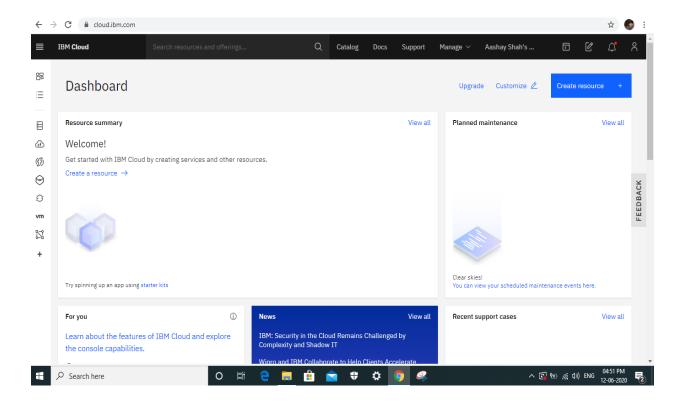
Git Hub



Slack

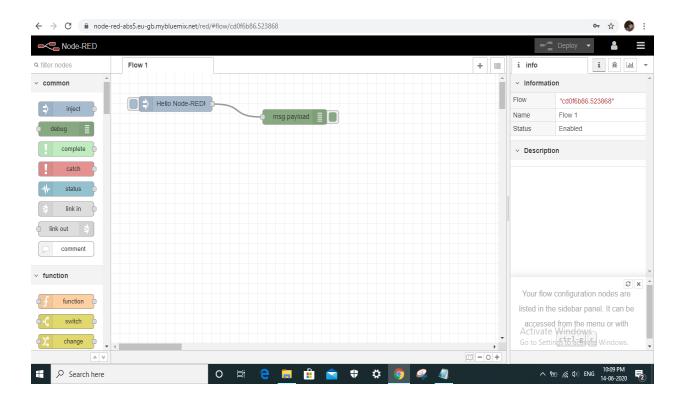


Sign Up for IBM Cloud

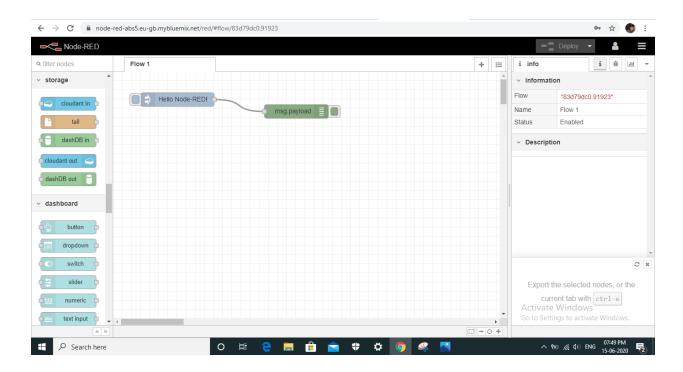


A Node - RED Starter Application

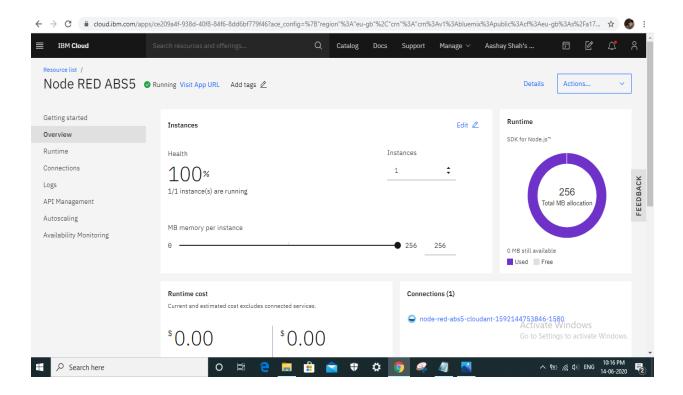
Node RED Starter



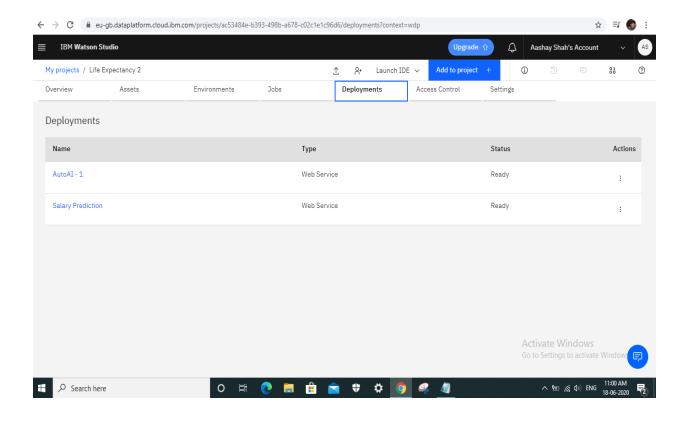
Node RED Starter with Dashboard



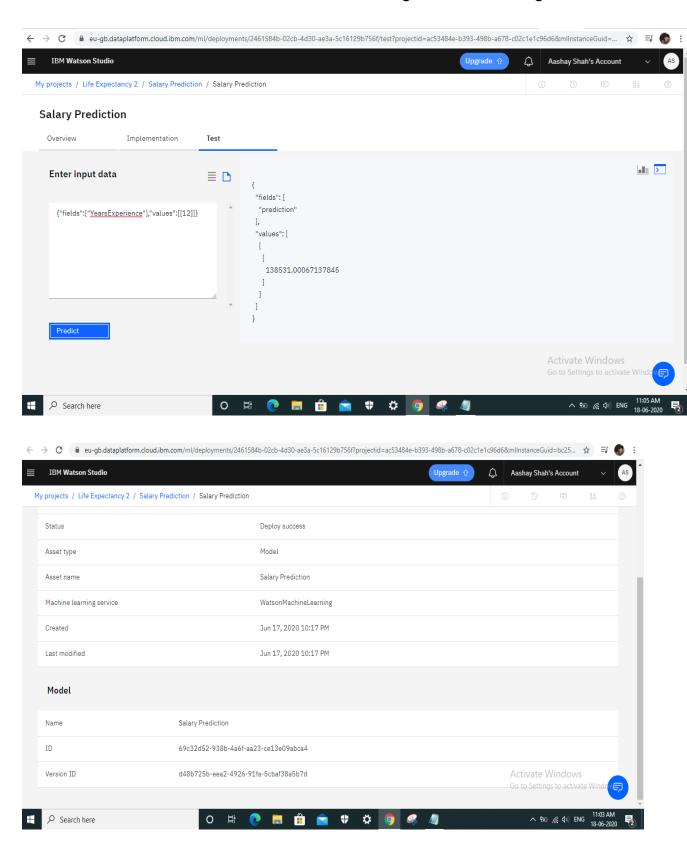
Node RED ABS5 Overview



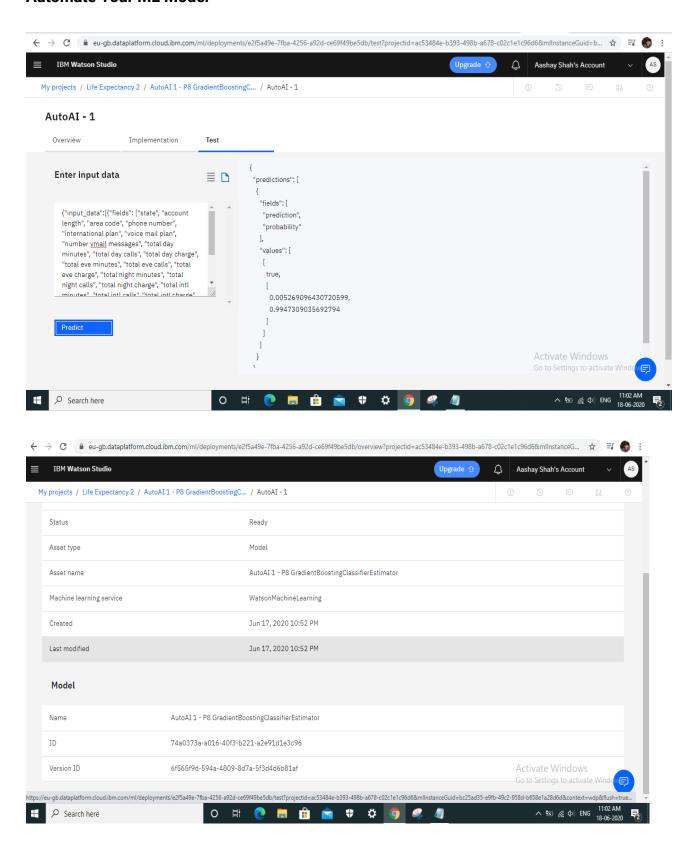
Build Your Own ML Model In IBM Watson Studio



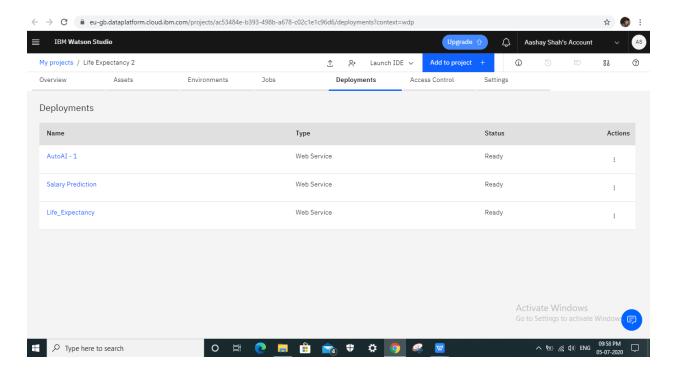
Build Your Own ML Model In IBM Watson Studio Using Machine Learning Service



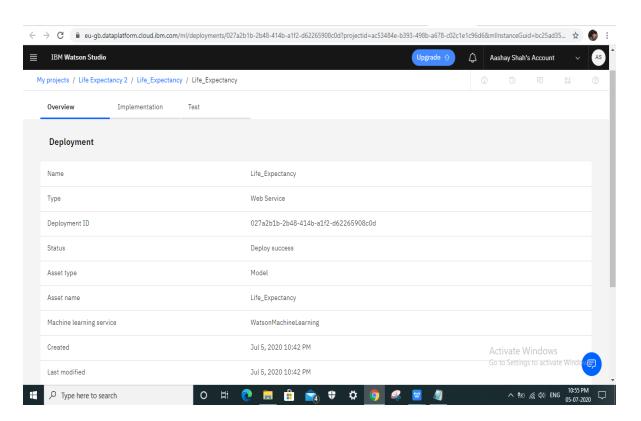
Automate Your ML Model



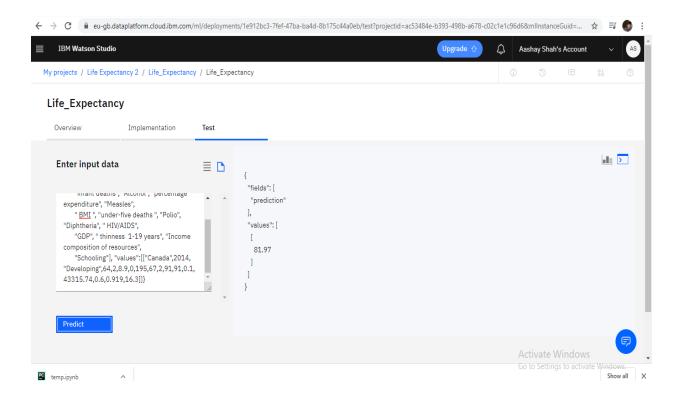
Model List



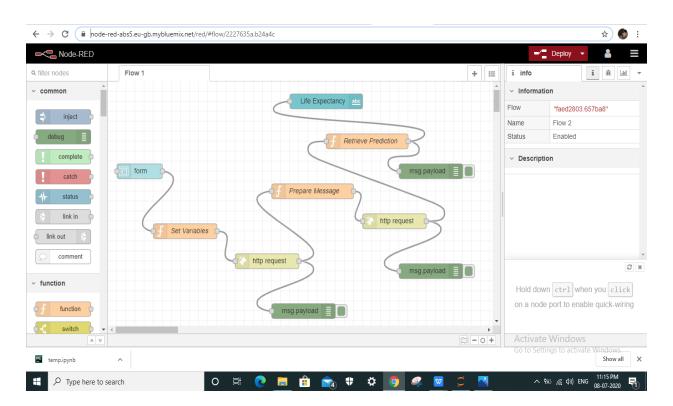
Life Expectancy Model Details



Life Expectancy Model Prediction



Node RED Flow



Result

