**Project ID** : SPS_PRO_215
**Project Title** : Predicting Life Expectancy using Machine Learning

# 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.

We will use dataset which has factors specifed and apply different Regression Machine Learning Algorithms to get life expectancy for a perticular human being.

## Project Requirements:-

Cloud for deplyoing Project
Watson for building AI Project

## Functional Requirements:-

High Performance
Accurate Result
Efficiency
Platform Independent

## Technical Requirements:-

Knowledge Python,IBM Cloud,IBM Watson

## Software Requirements:-

Slack
IBM Cloud
Watson Studio
ZOHO writer

## Project Deliverables:-

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:-

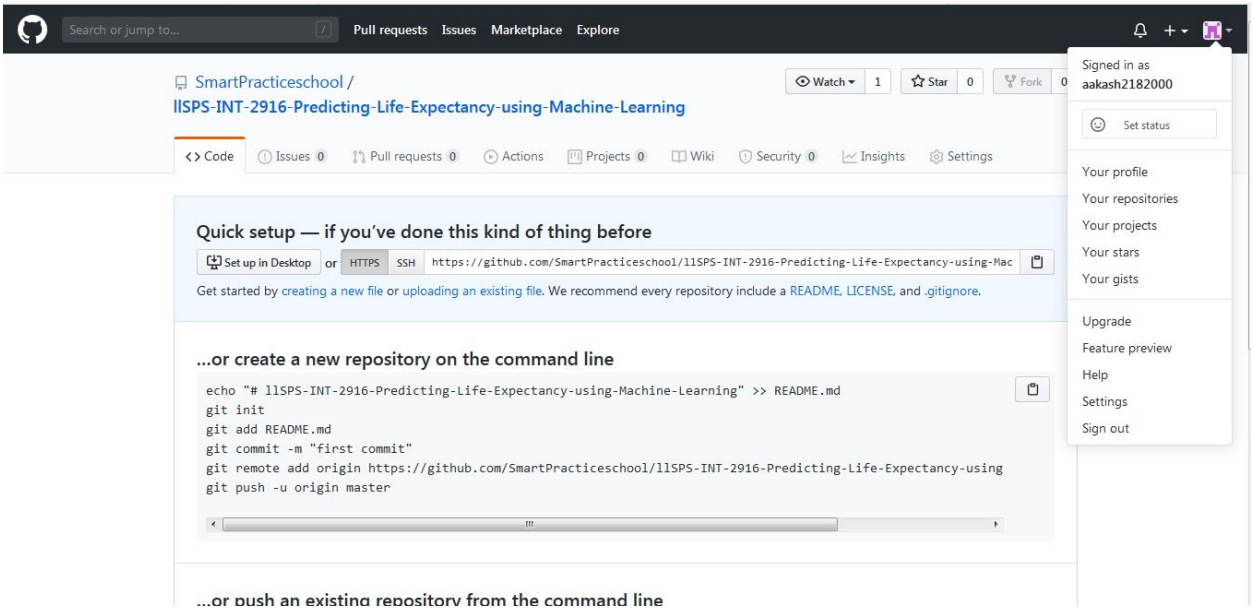
It is the individual project.

## Project Schedule:-

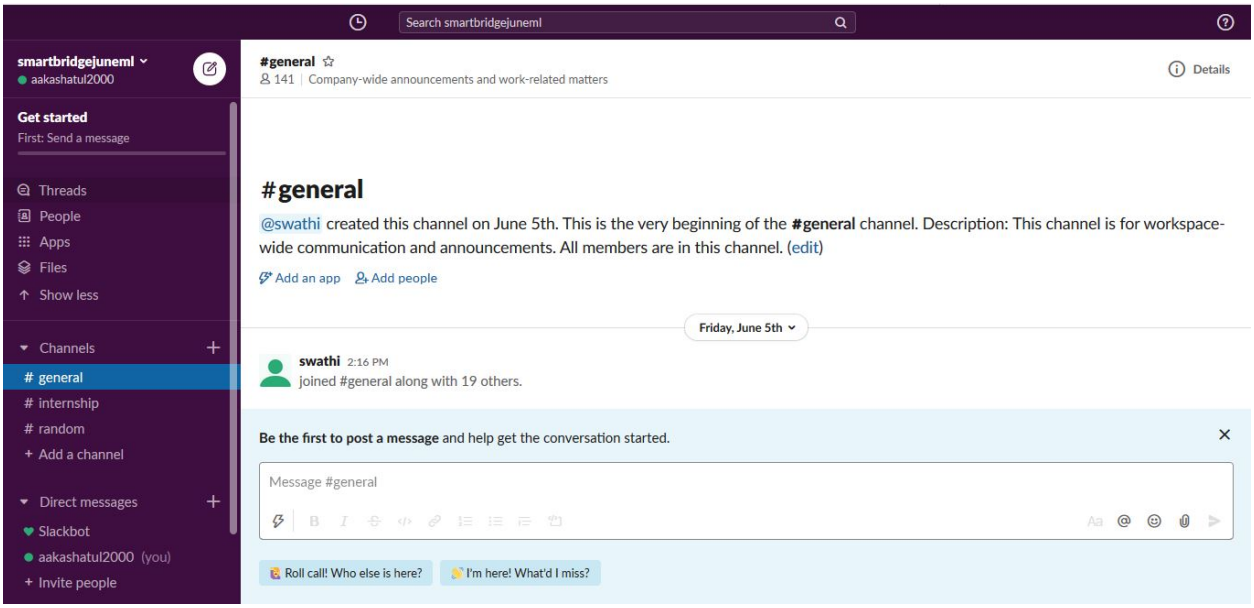
Project Scope, Schedule, Team & Deliverables - 1 Day
Setup the Development Environment - 1 Day
Create IBM Cloud Account - 0.5 Day
Create a Node-RED Starter Application-1 Day
Explore IBM Watson Usecases- 0.5 Day
Explore IBM Watson Machine Learning- 3 Days
Build your own ML model in IBM Watson Studio-2 Days
Automate your ML model- 1 Day
Collect the Dataset for the Project- 1 Day
Create Necessary IBM Cloud Services- 2 Day
Create a Watson Studio Project - 2 Day
Configure Watson Studio - 1 Day
Create Machine Learning Service - 1 Day
Create a Jupyter Notebook in IBM Watson and import data - 0.5 Day
Build a Machine Learning model and create Endpoints for Node-RED integration - 2 Days
Build Node-RED Flow to Integrate ML Services - 2 Days
Import dataset and create AUTO AI Experiment - 1 Day
Build Node-RED flow to integrate AutoAI - 1 Day

# Setup the Development Environment

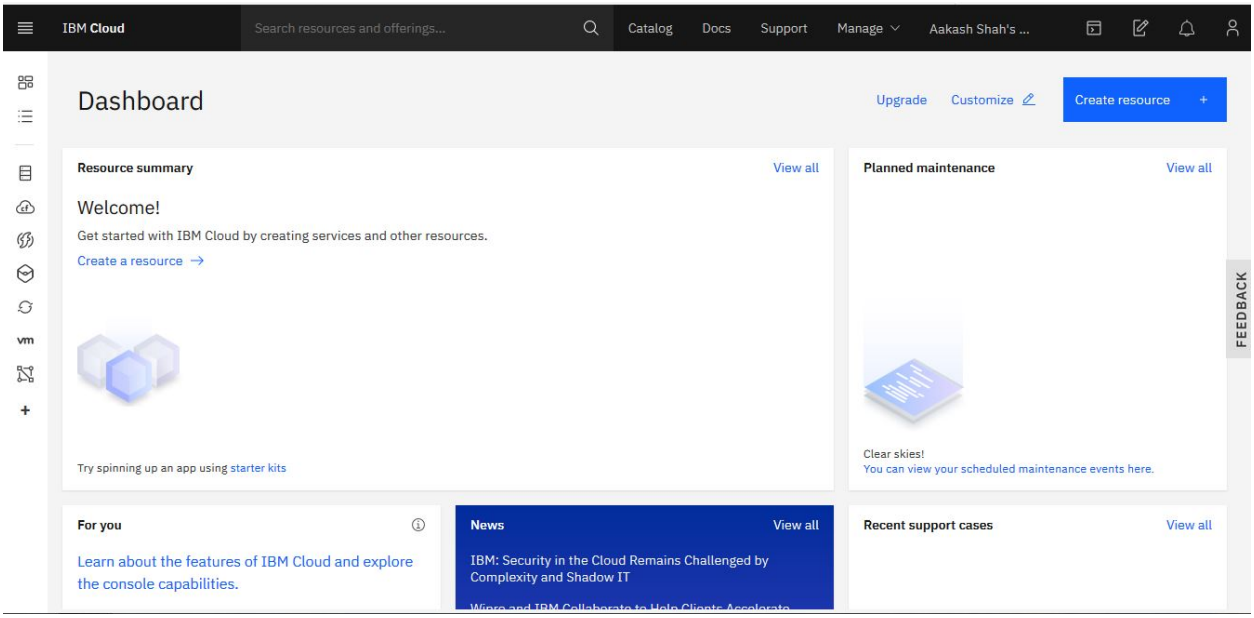
## GitHub:-



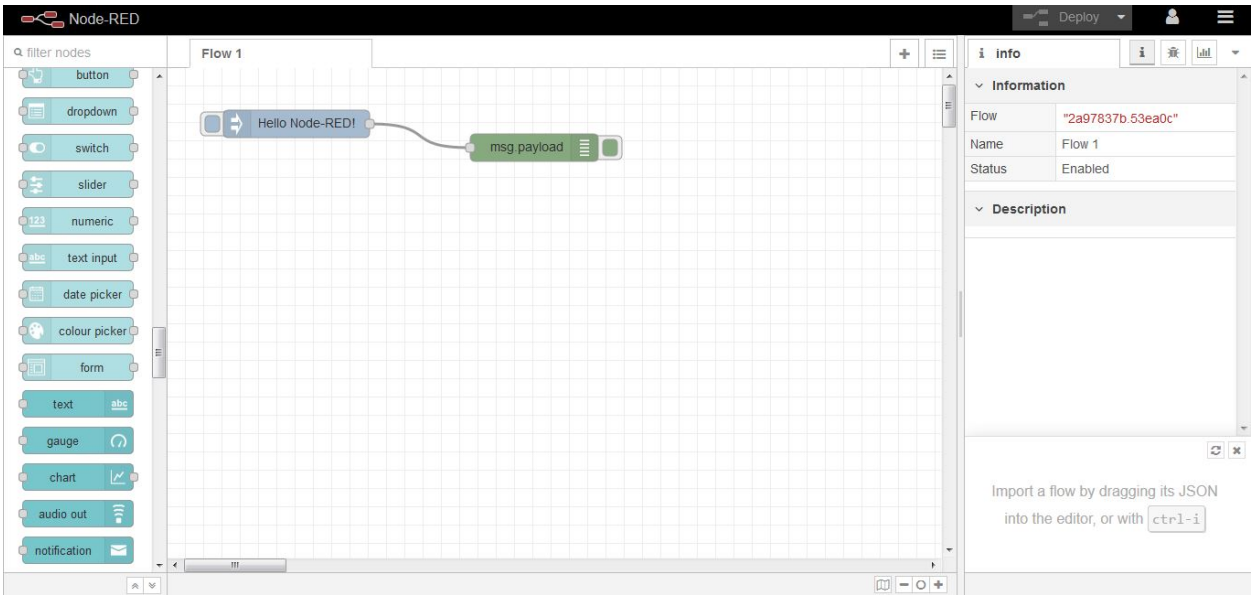

## Slack:-

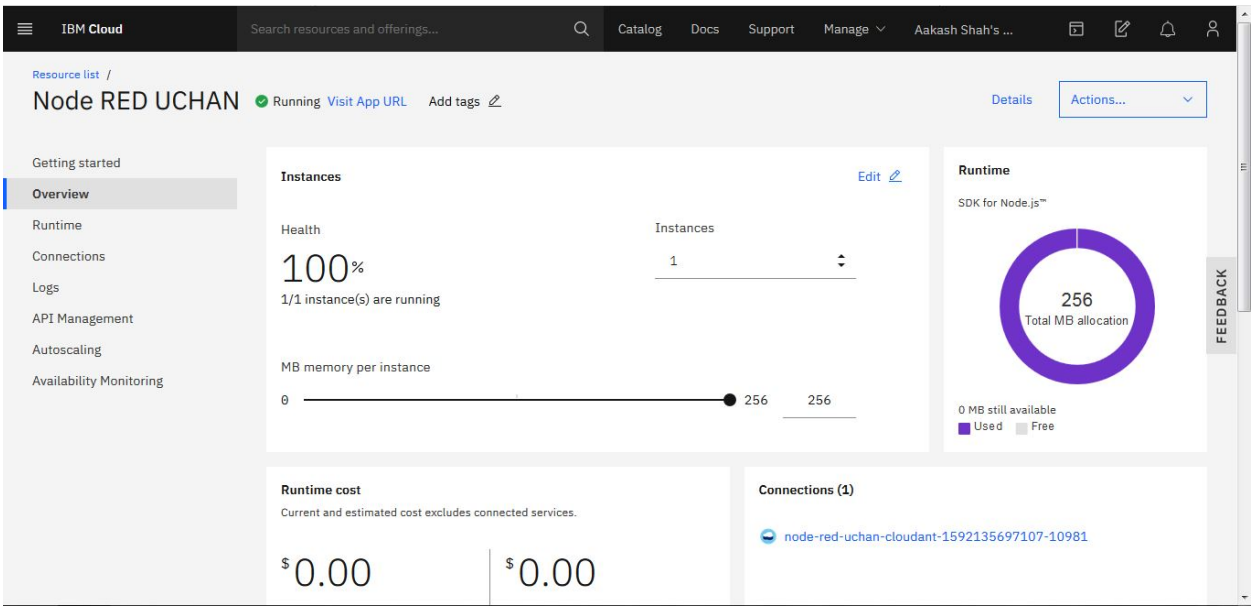


# Sign-up for IBM Cloud

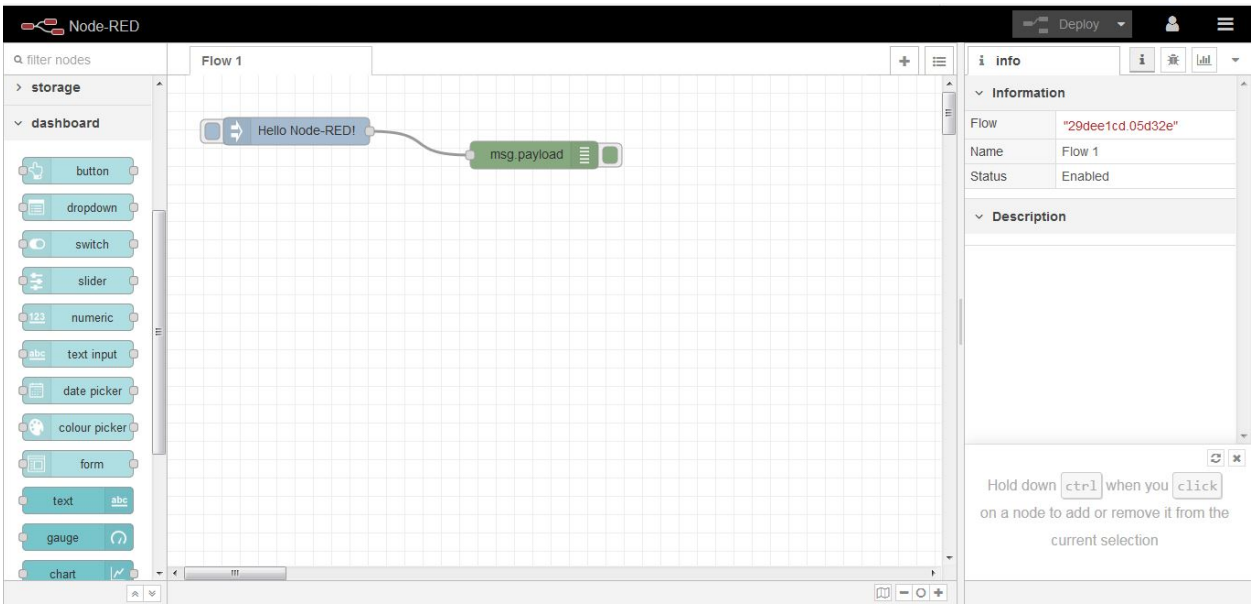



# Node-RED Starter Application

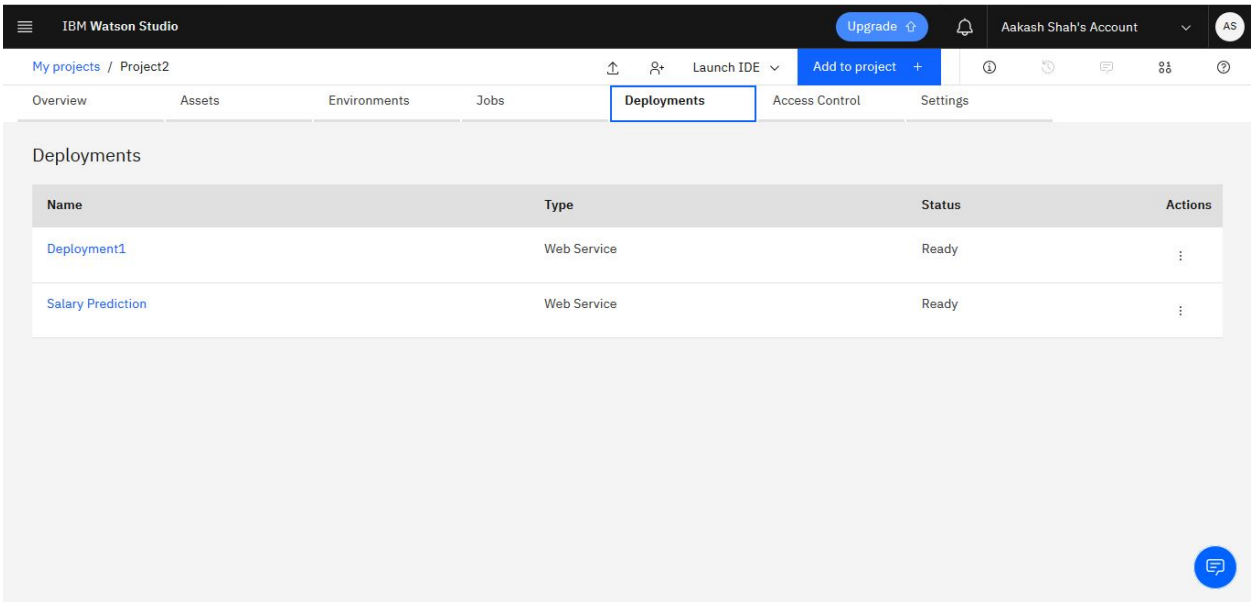




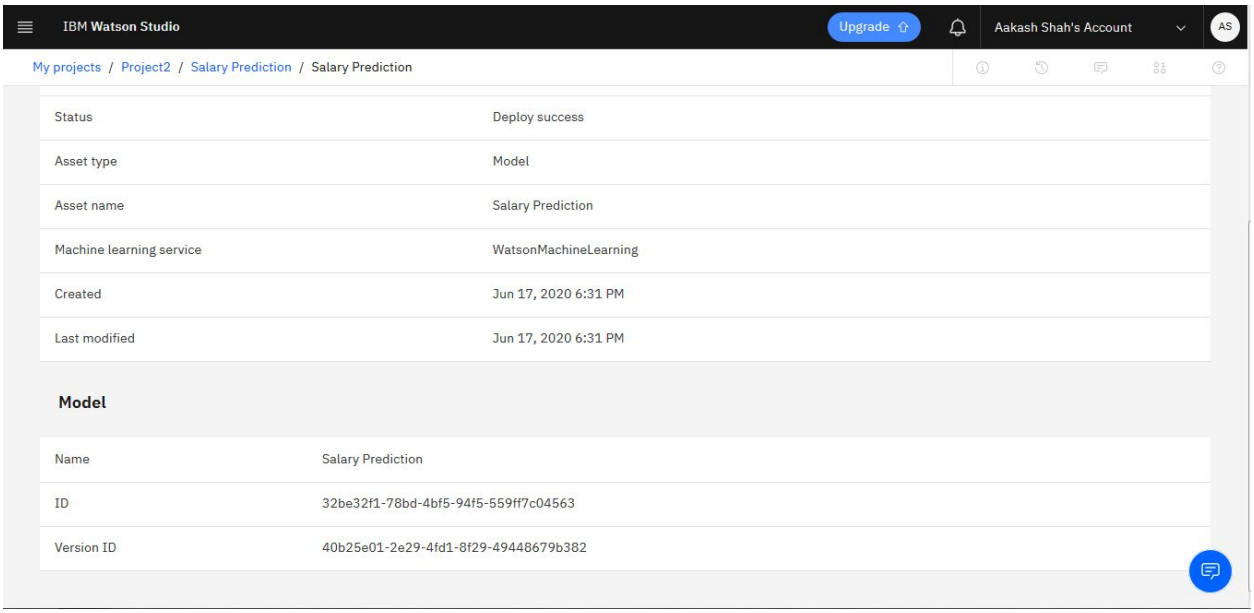

# Node-RED Starter Kit with Dashboard Node

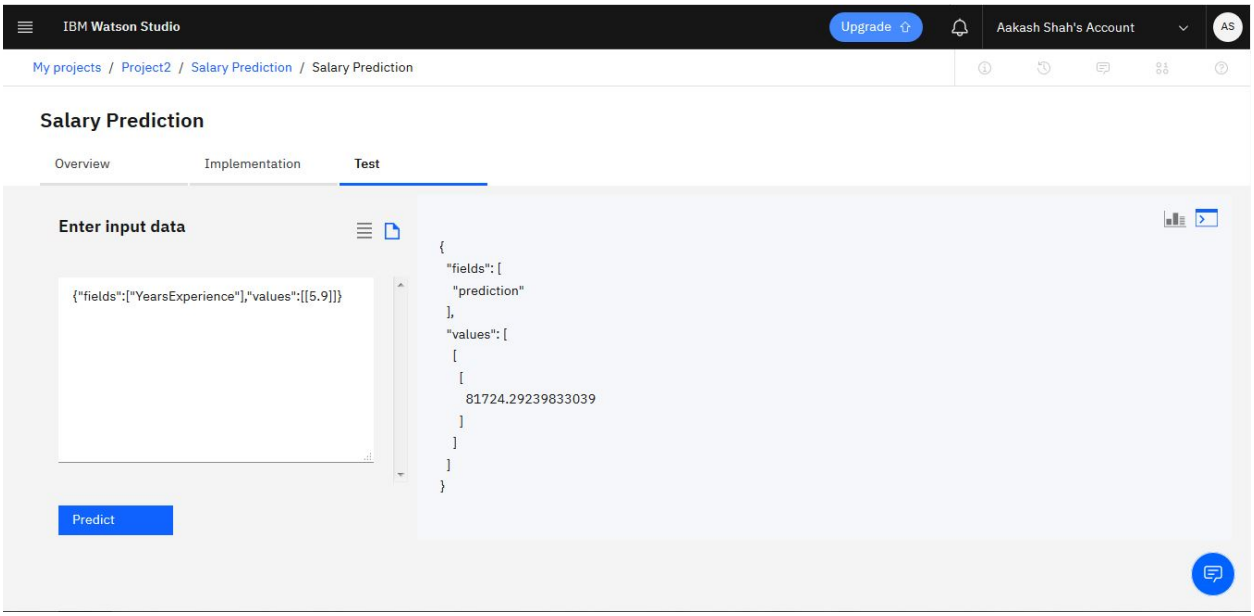


# Build your own ML model in IBM Watson Studio

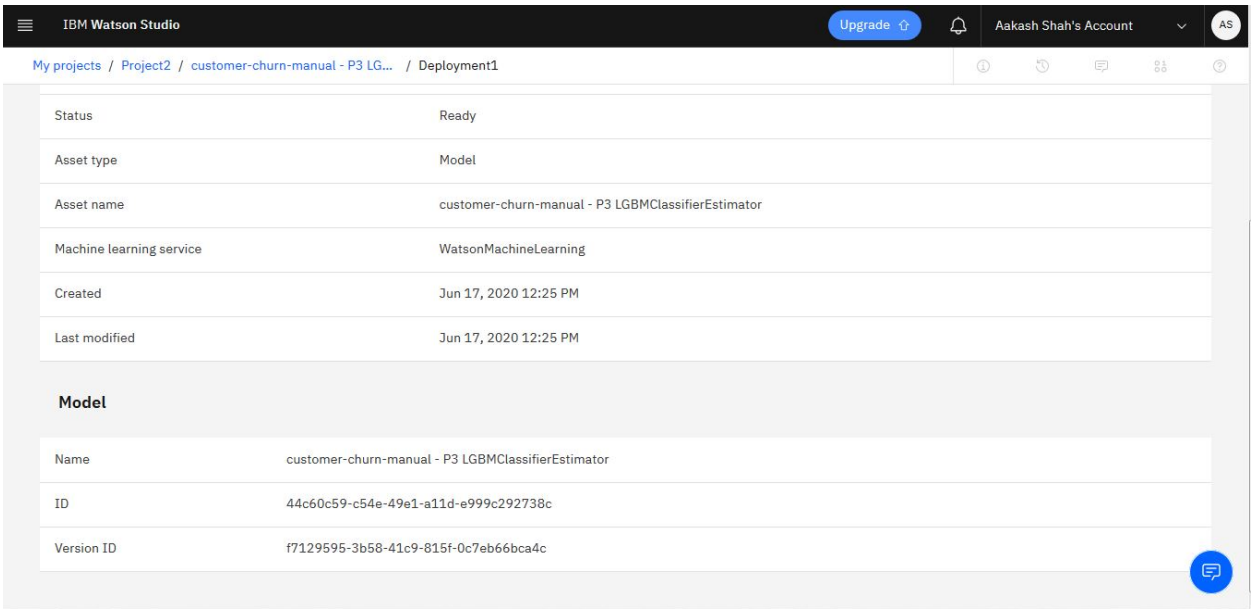


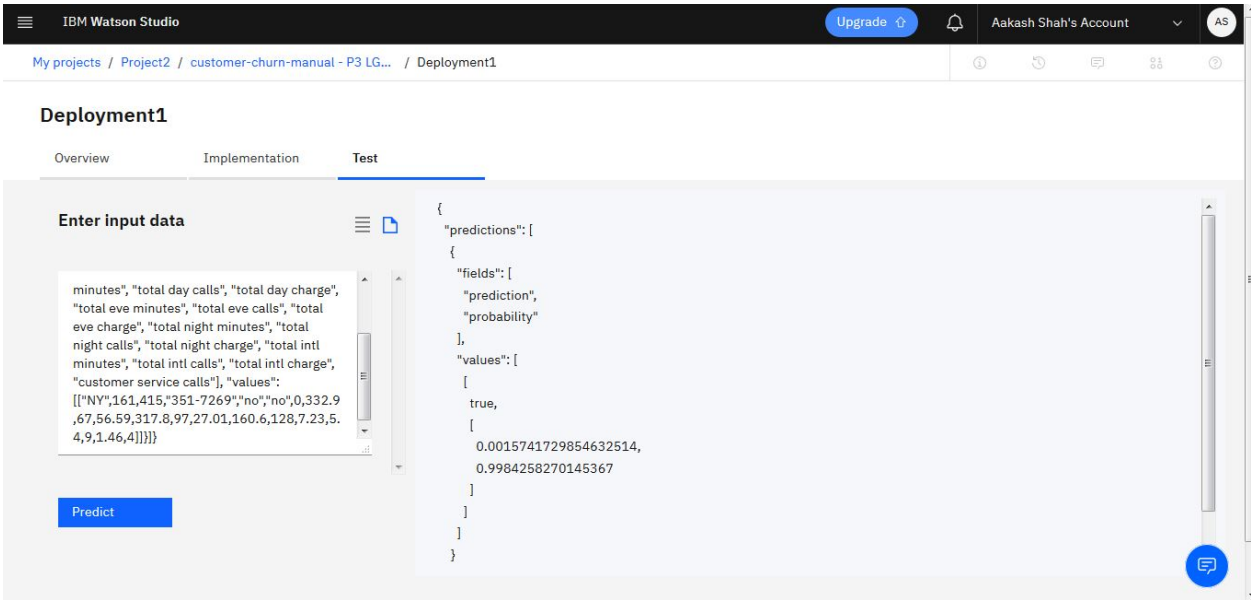
# Deployment of Salary Prediction using Linear Regression



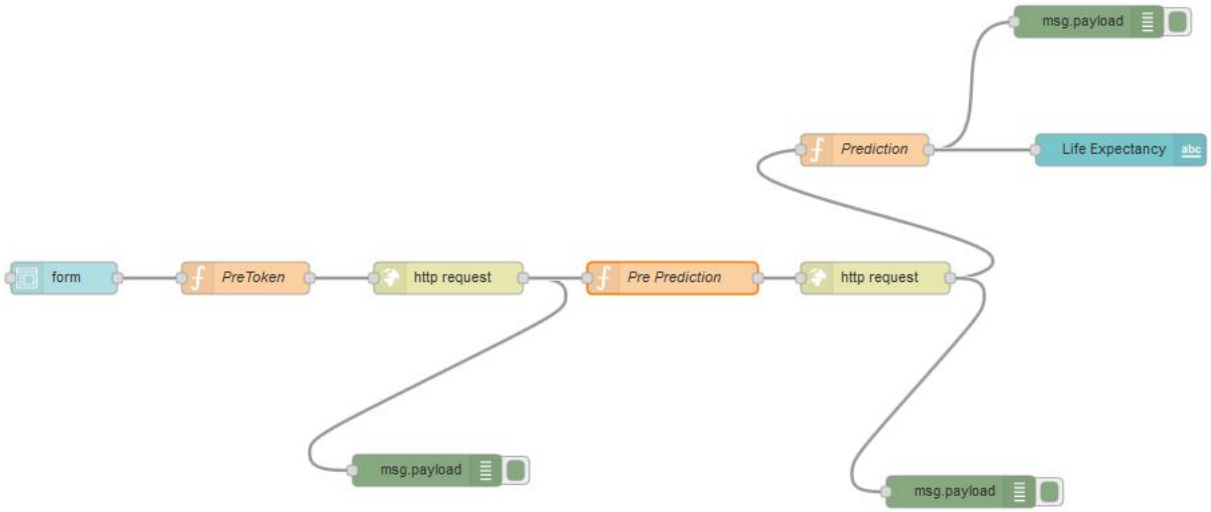



# Automate Model using AutoAI

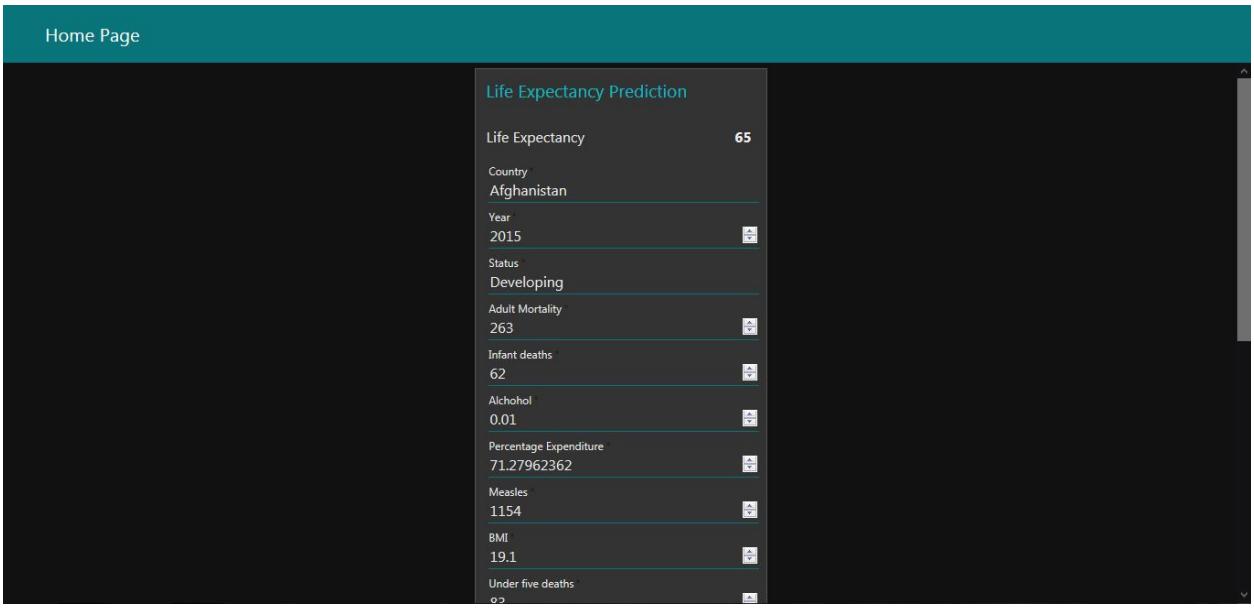


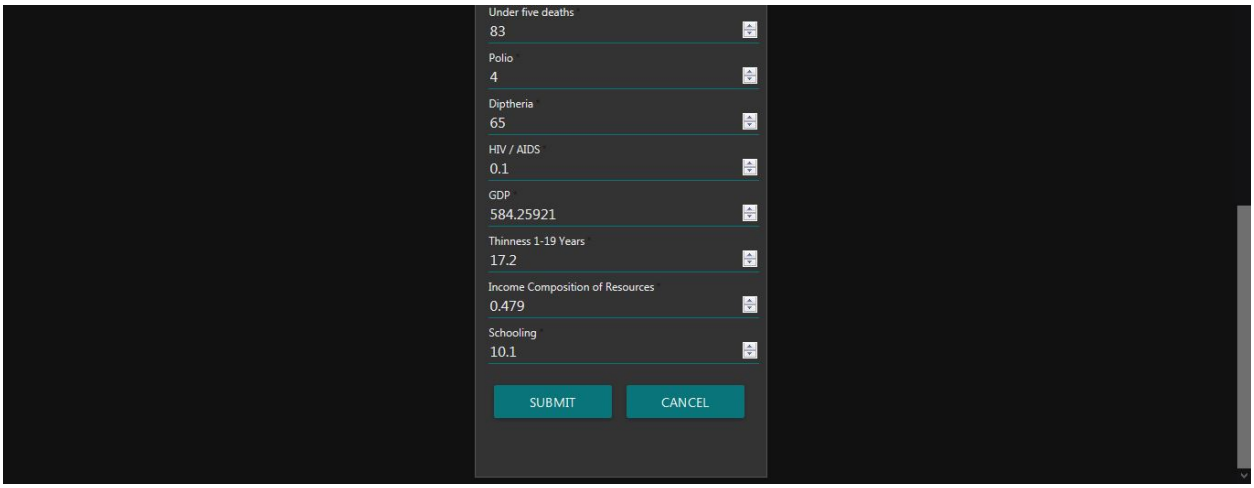



# Node Red Flow of Life Expectancy using ML




# Result of prediction (Node Red Form):






**Github Link:**

https://github.com/SmartPracticeschool/llSPS-INT-2916-Predicting-Life-Expectancy-using-Machine-Learning