**Project Name**: Predicting Life Expectancy using Machine Learning

Project Member: Arun G K

**Project Mentor**: Hemant Kumar Gahlot (Smartbridge)

**Date** : 12.06.2020

TSK-50581: Project Scope, Schedule, Team & Deliverables:

## **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:**

- ➤ Zoho Writer
- ➤ Github repository
- ➤ Slack channel

#### **Technical Requirements:**

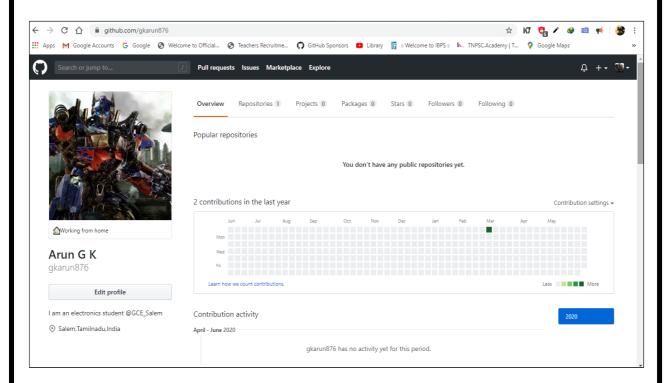
- > Python
- ➤ IBM Cloud
- ➤ IBM Watson
- ➤ Node-Red
- Machine Learning

#### **Project Team and Duration:**

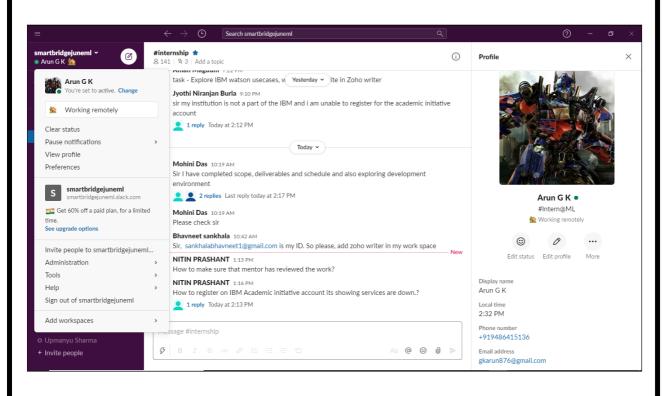
➤ Arun G K (30 days)

## TSK-50582 - Setup The Development Environment :

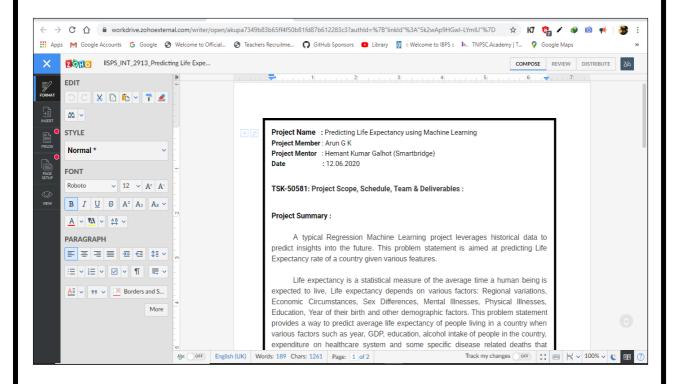
1) Github account URL: https://github.com/gkarun876



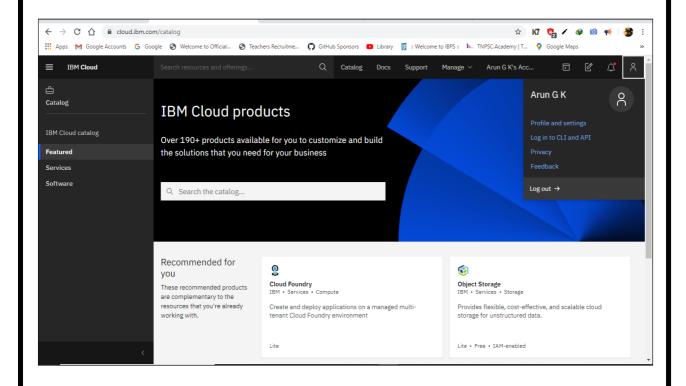
## 2) Slack channel:



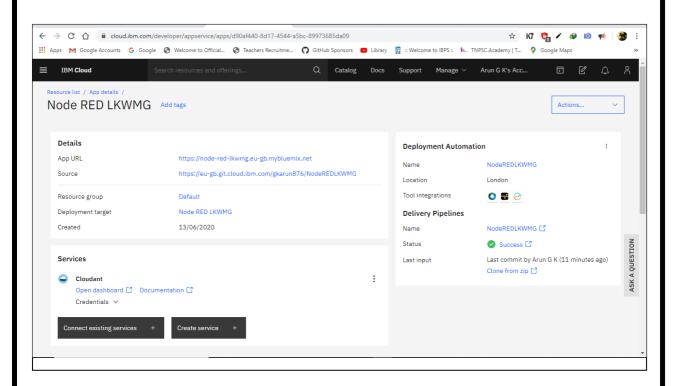
## 3) Work With Document Writer:

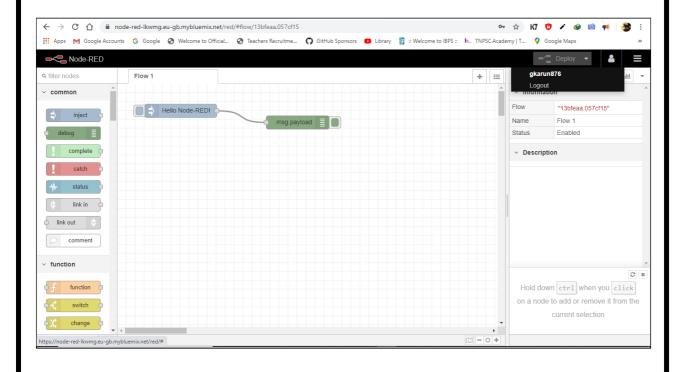


#### TSK-50583 - Create IBM Cloud Account :



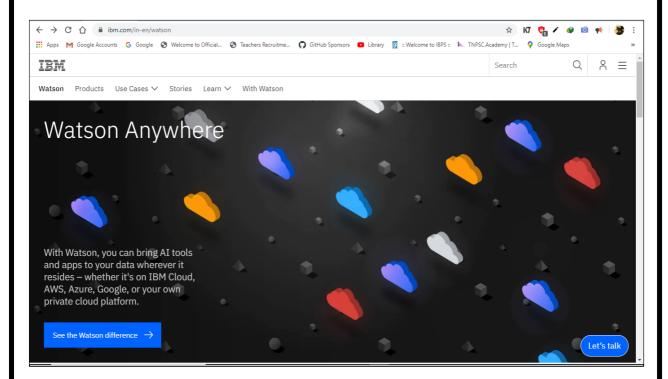
## TSK-50584-Create a NODE-RED Starter Application:



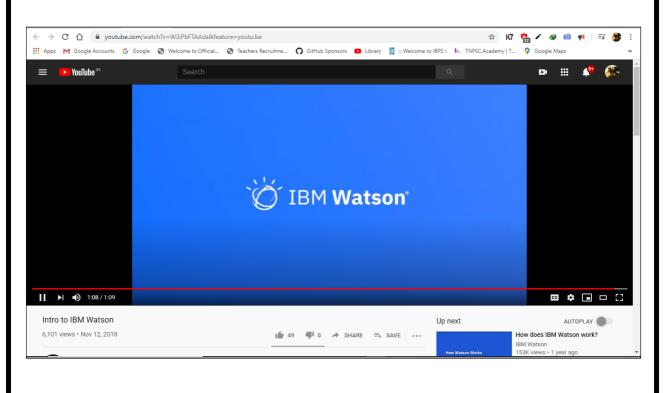


# TSK-50585-Explore IBM Watson Usecases:

# **Watson products and services:**

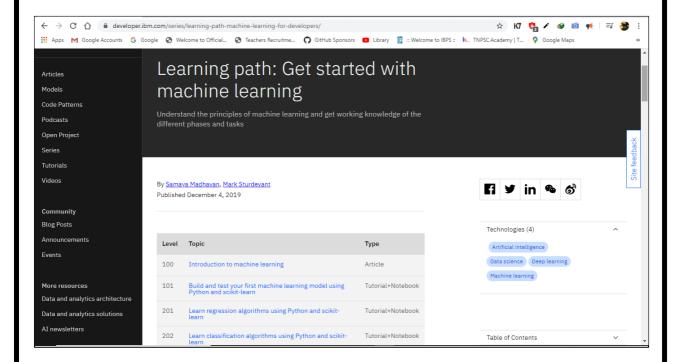


#### Watson at work:

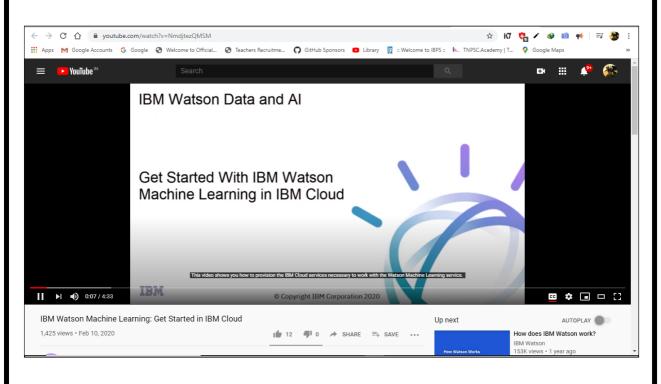


### TSK-50586-Explore IBM Watson Machine Learning:

#### **Introduction to Machine Learning:**

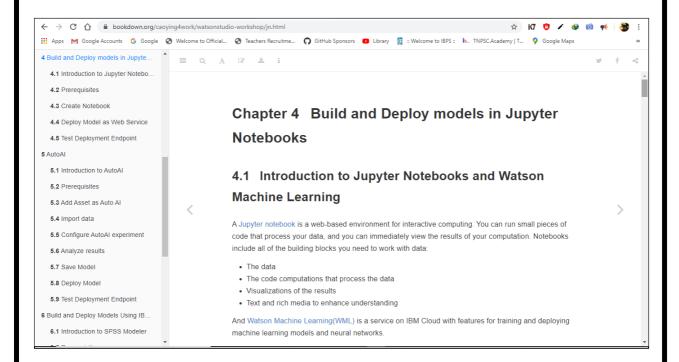


## About IBM Watson Machine Learning:



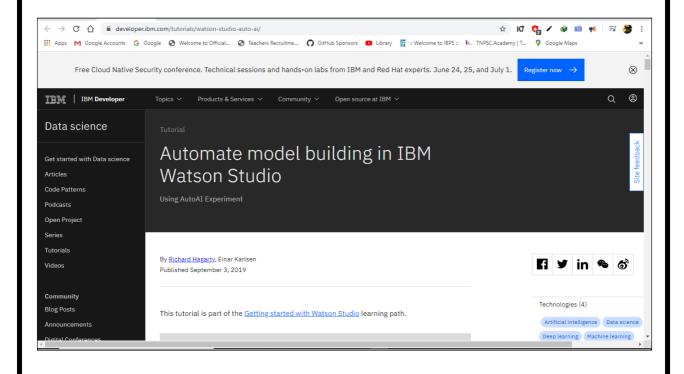
#### TSK-50587-Build your own ML Model in IBM Watson Studio:

#### Build Your Own ML Model IN IBM Watson Studio Using Machine Learning Service:

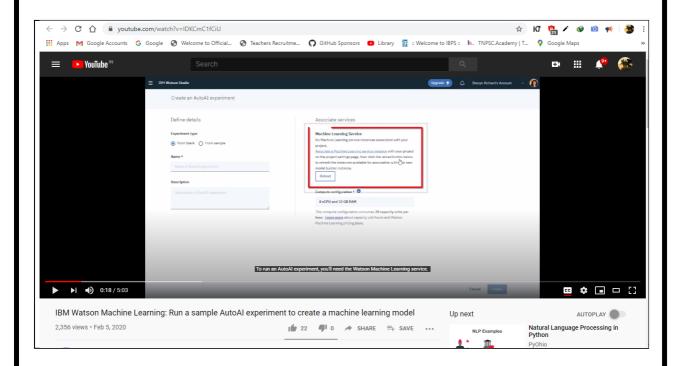


#### TSK-50588-Automate Your ML Model:

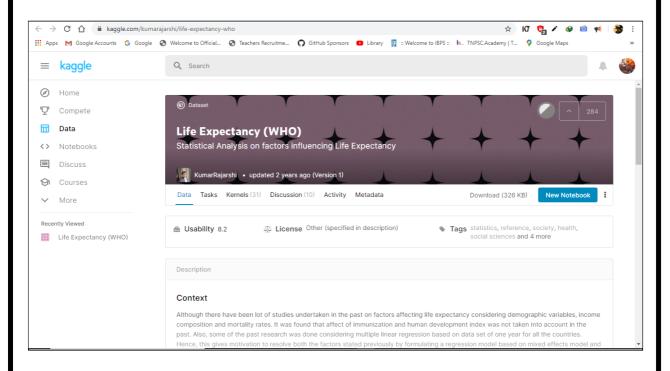
#### **AutoAl Reference 1:**



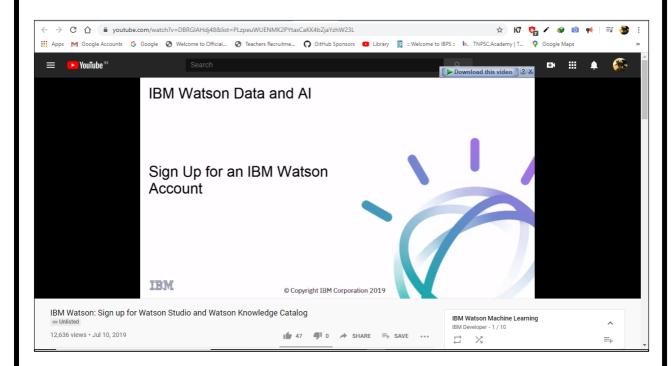
### **AutoAl Reference 2:**



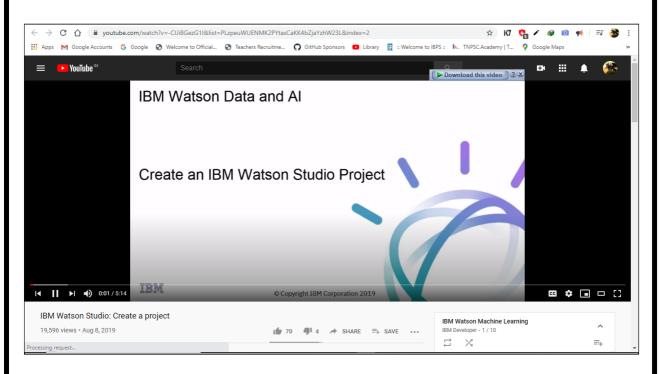
# TSK-50589-Collect The Dataset For The Project :



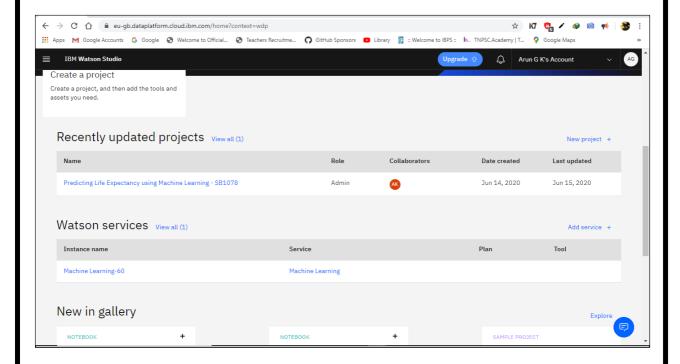
# **TSK-50590-Create Necessary IBM Cloud Services:**



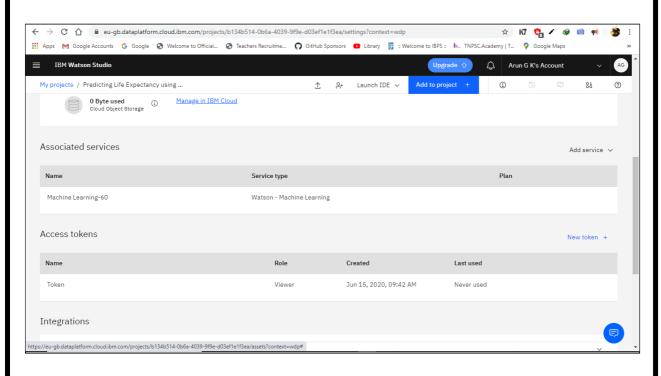
## TSK-50591-Create a Watson Studio Project:



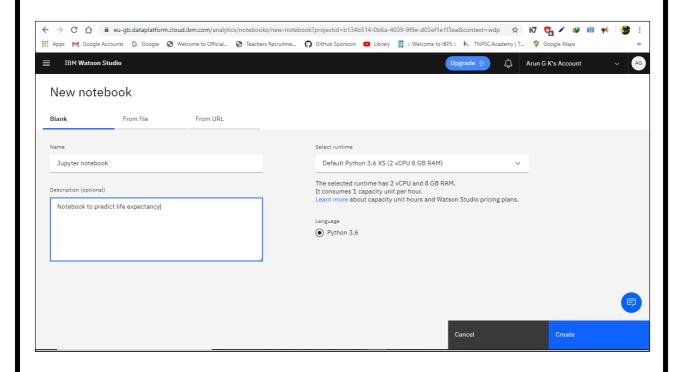
# TSK-50592-Configure Watson Studio:

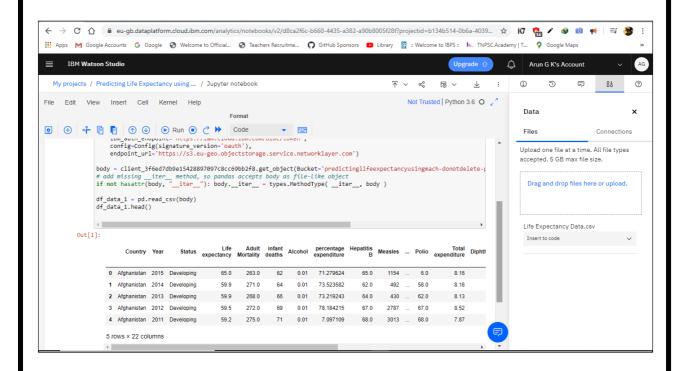


# TSK-50593-Create Machine Learning Service:



## TSK-50594-Create A Jupyter Notebook In IBM Watson And Import Data:





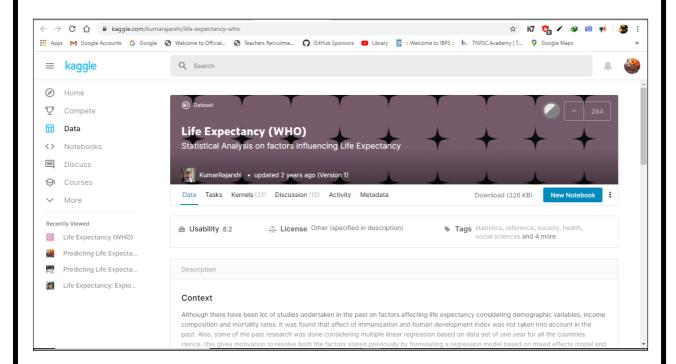
# TSK-50595-Build A Machine Learning Model And Create Endpoints For Node-Red Integration:

I am going to build the model using Auto AI experiment.

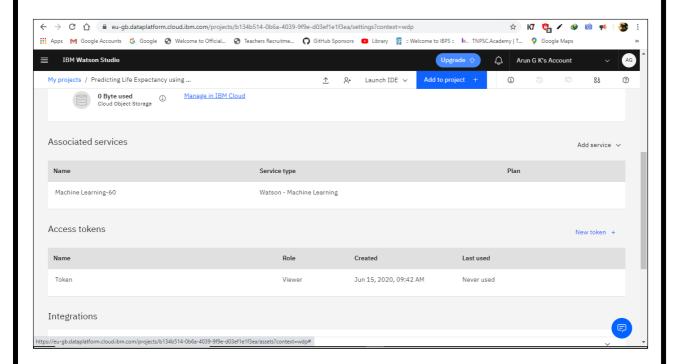
### TSK-50596-Build Node-Red Flow to Integrate Services:

I am going to build the model using Auto AI experiment.

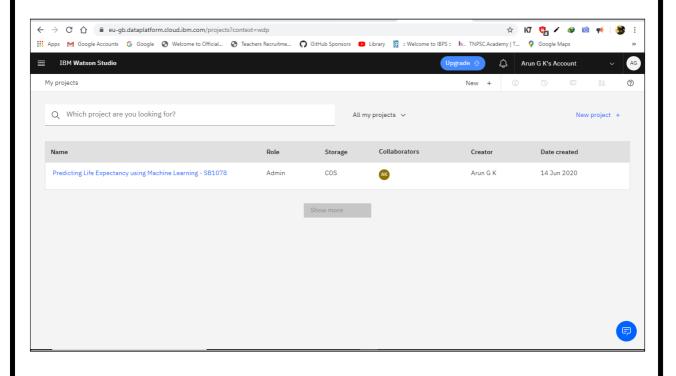
### TSK-50597-Collect The Dataset For The Project:



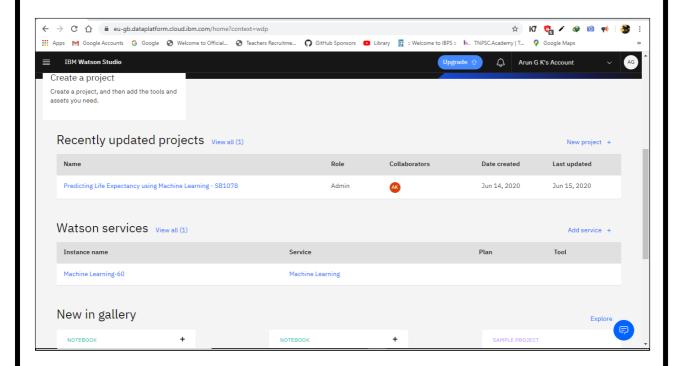
# **TSK-50598-Create Necessary IBM Cloud Services:**



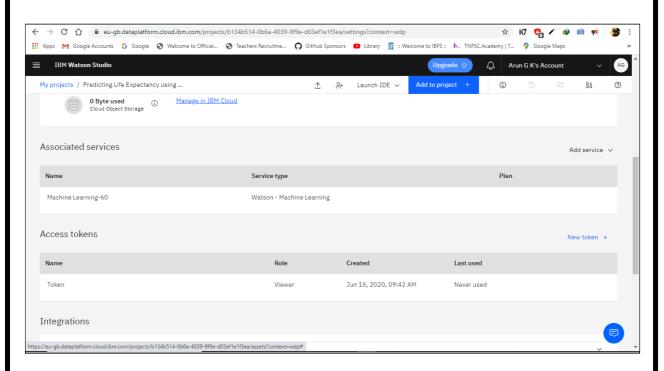
## TSK-50599-Create a Watson Studio Project:



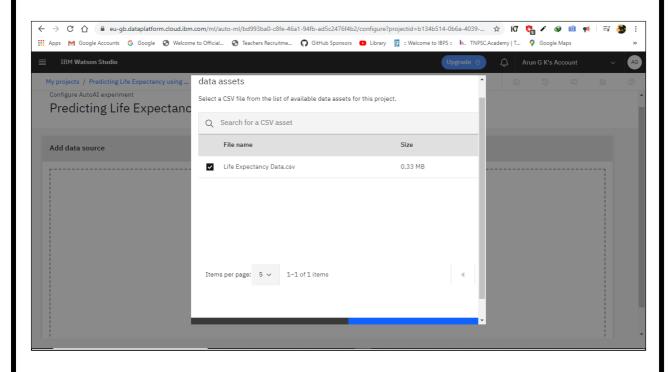
### TSK-50600-Configure Watson Studio:

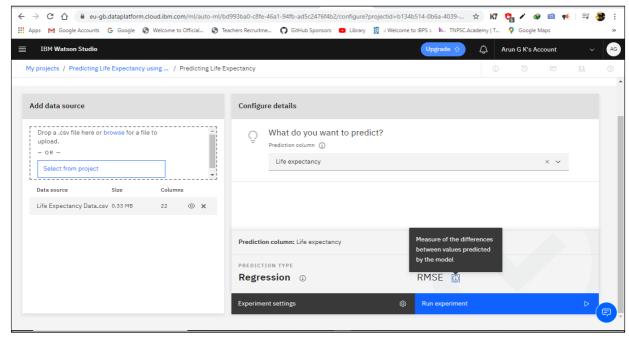


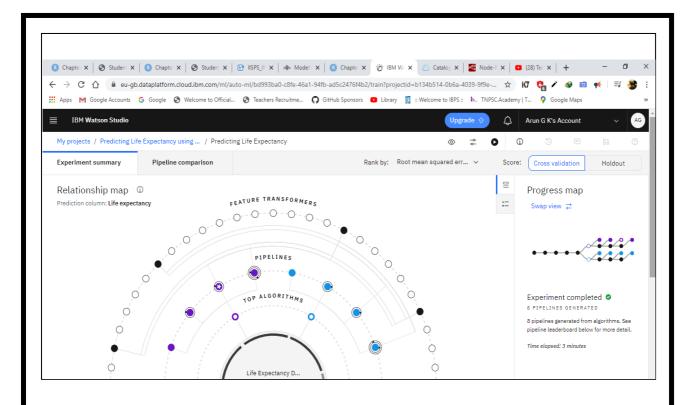
#### TSK-50601-Create Machine Learning Service:

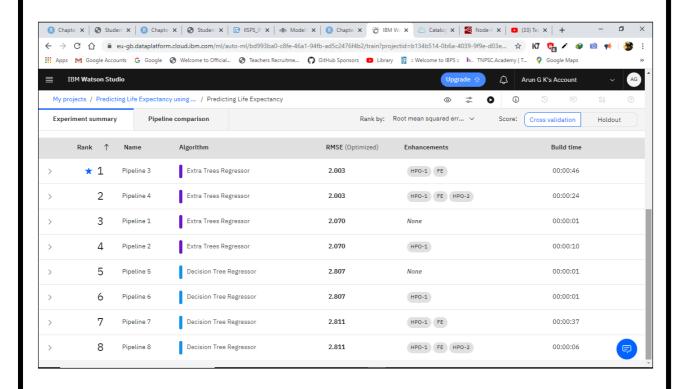


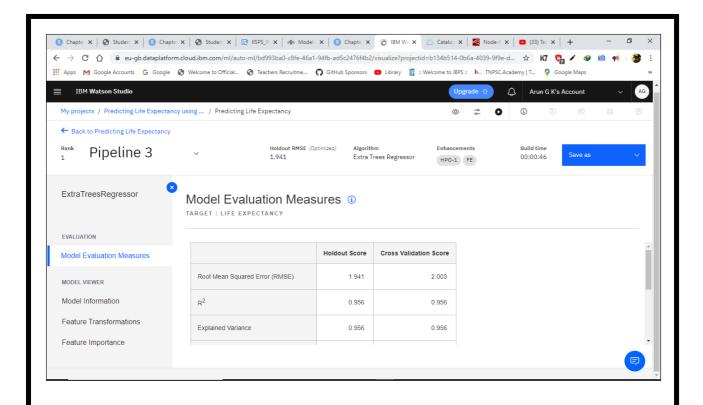
# TSK-50602 - Import Dataset And Create Auto AI experiment :

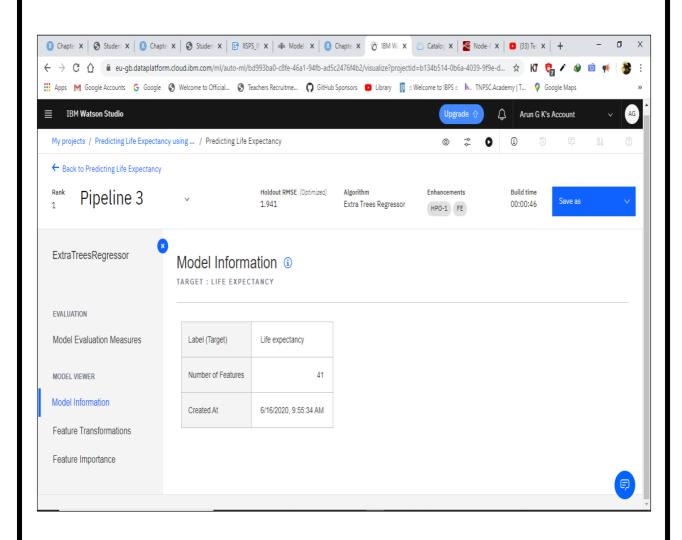


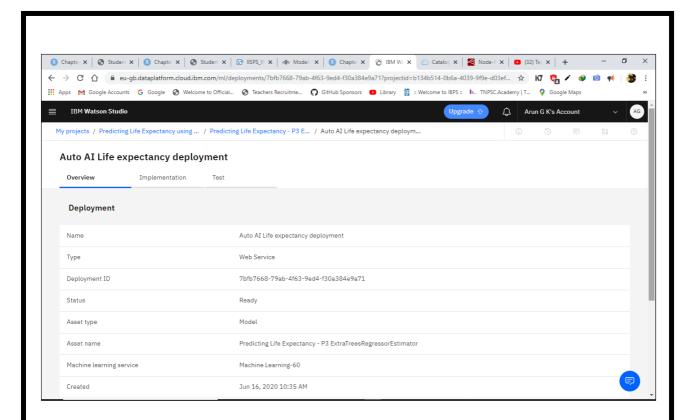












#### TSK-50603-Build Node-Red Flow To Integrate Auto AI:

