COLLEGE CODE: 5113

Batch Members:

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CLOUD APPLICATION DEVELOPMENT

PROJECT 5:BIG DATA ANALYSIS WITH IBM CLOUD DATABASE

Introduction:

In this part we will continue building your project.

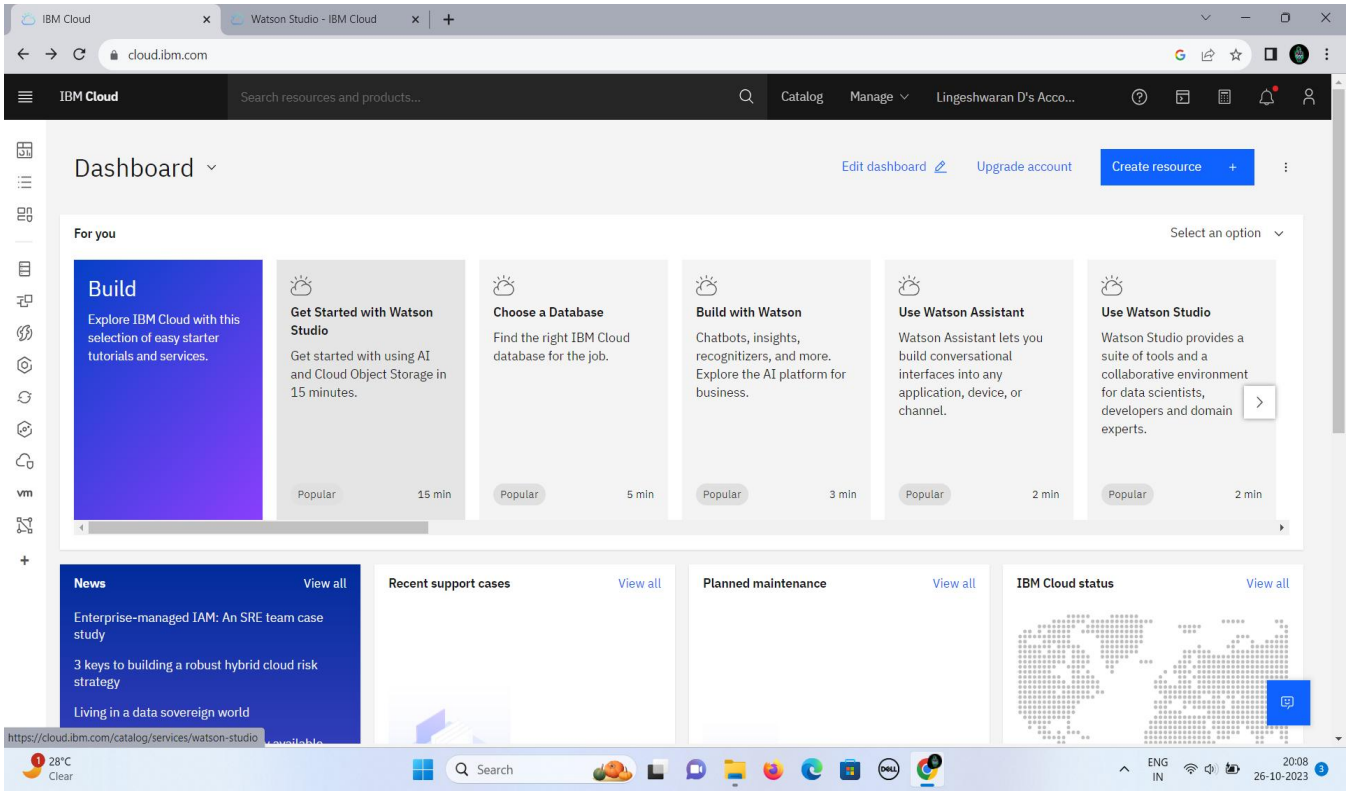
Continue building the big data analysis solution by applying advanced analysis techniques and visualizing the results. Apply more complex analysis techniques, such as “machine learning algorithms, time series analysis, or sentiment analysis” depending on the dataset and objectives. Create visualizations to showcase the analysis results. Use tools like Matplotlib, Plotly, or IBM Watson Studio for creating graphs and charts.

We are use ibm watson studio for creating graphs and charts we spliting several step to use a IBM watson studio

Step 1:

*login our IBM Cloud Account and create ibm watson studio

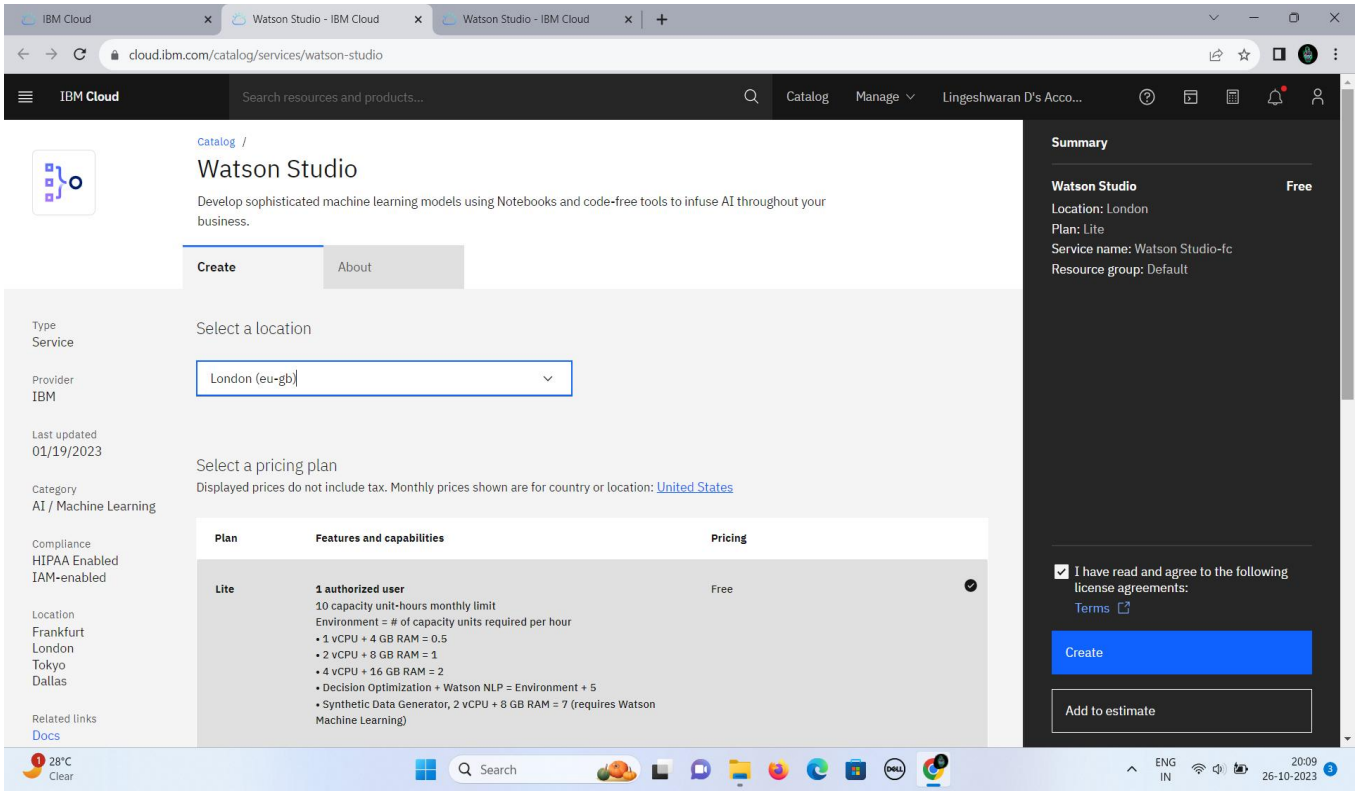
*search IBM Watson studio on search bar



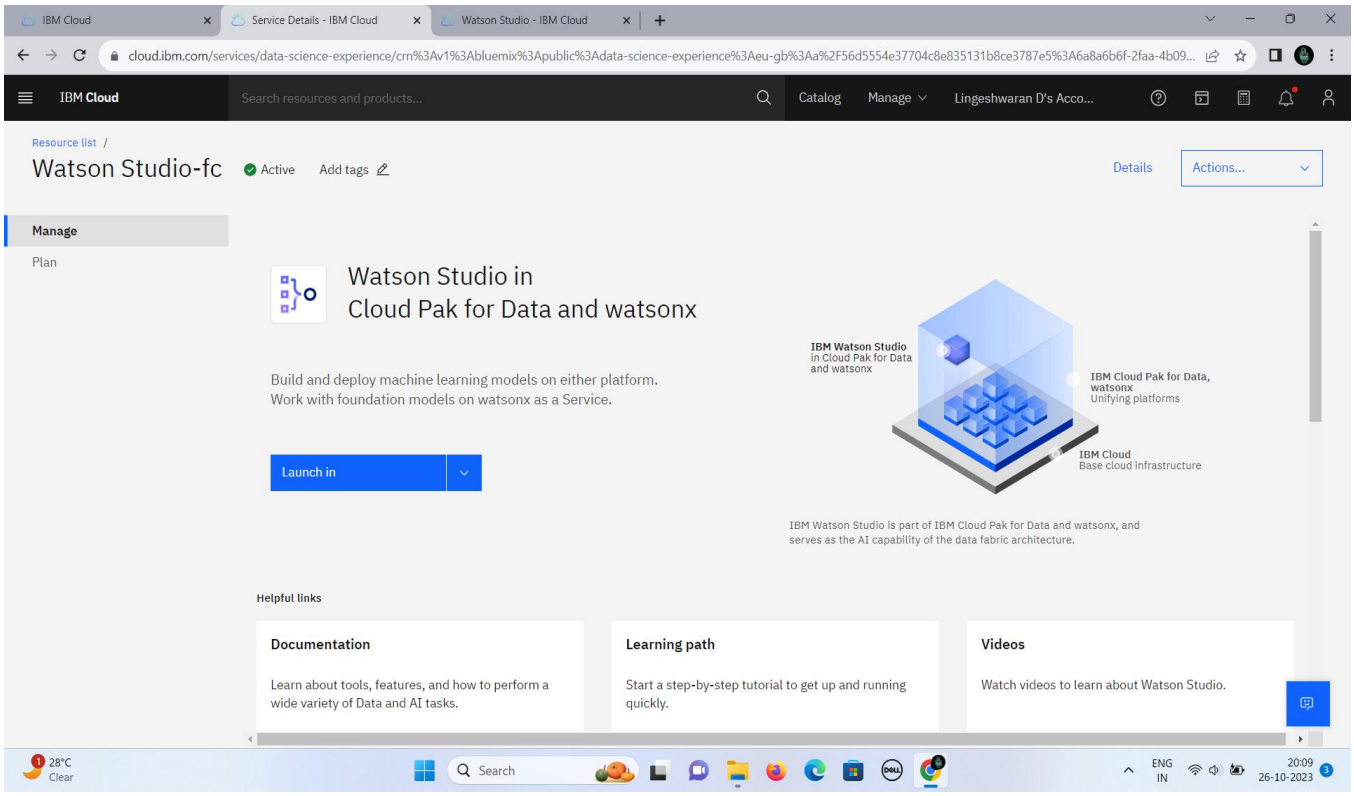
Step 2:

*Create a watson studio and select a location

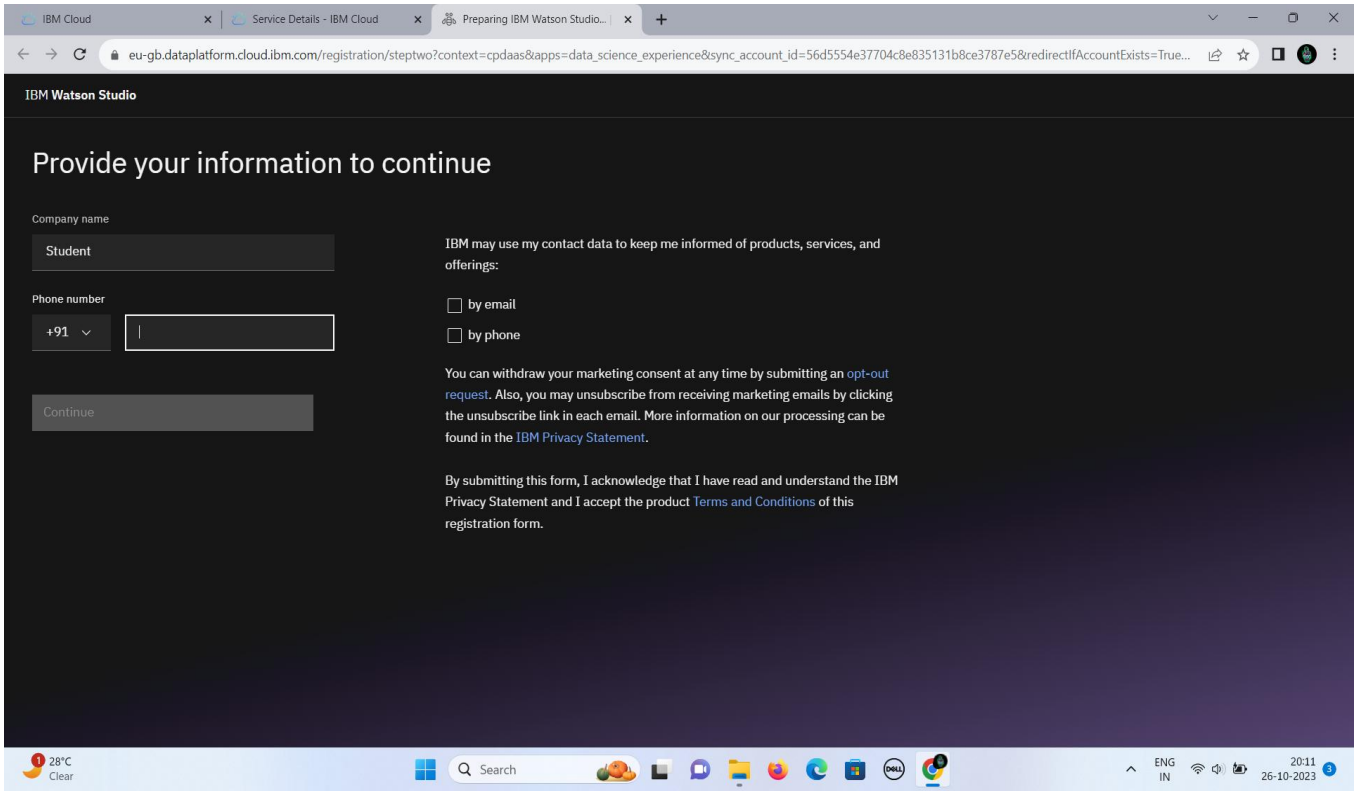
*After selecting the location and click create



*launch the IBM Watson Studio

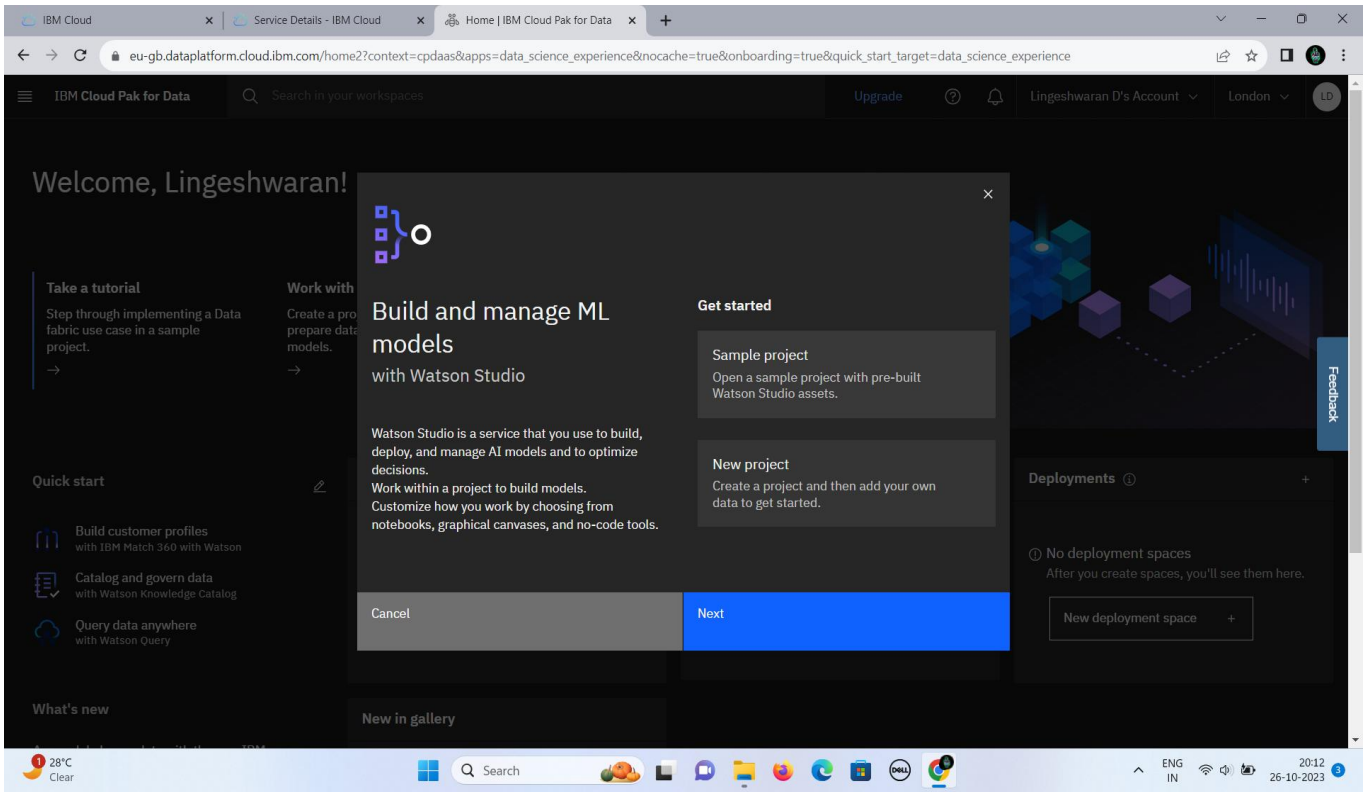


*Apply your information to continue

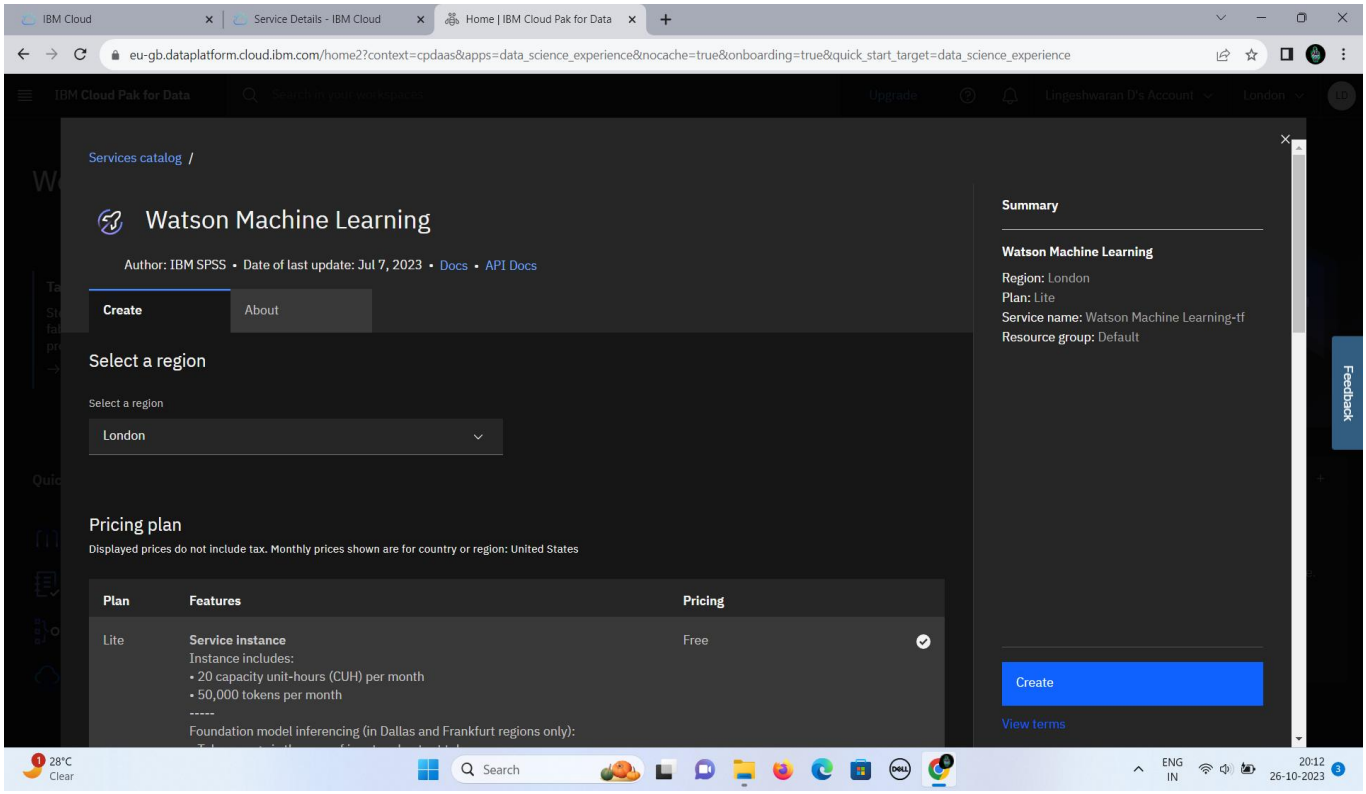


Build and manage ML model with watson studio

Watson studio is a service that you use to build,deplay and manage AI model and to optimise decision work within a project to build model customize how you work by choosing from notebook,graphical canvases and no code tools

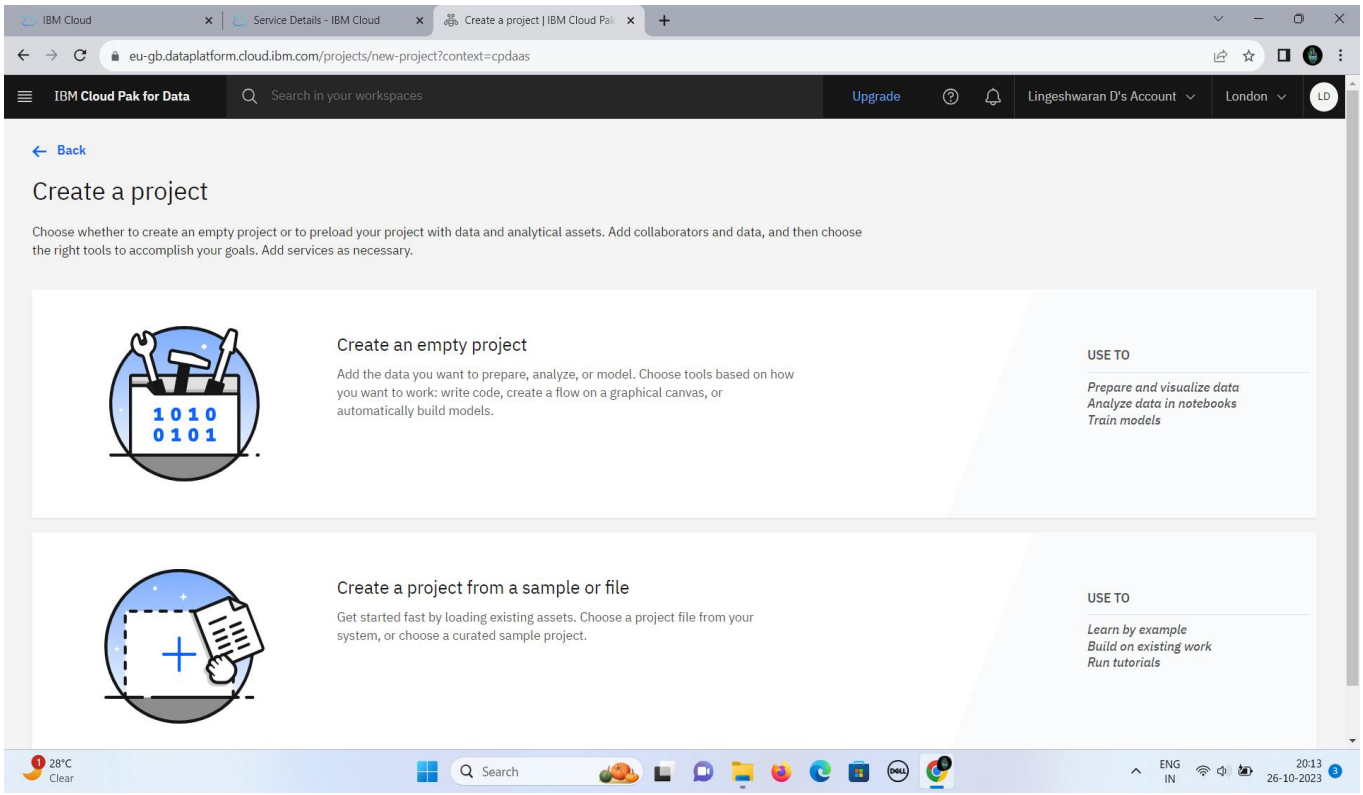


*create watson machine learning in IBM watson studio



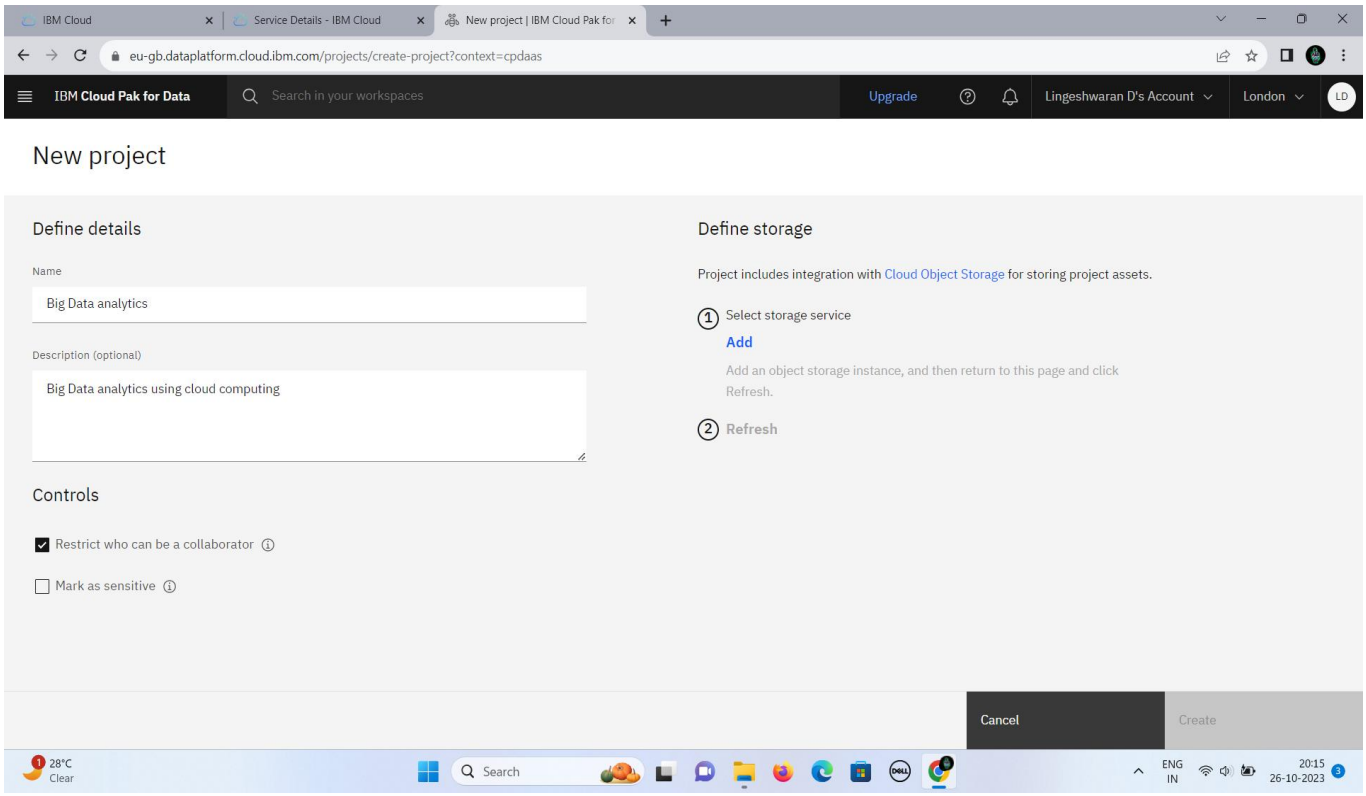
*create a project to work on IBM watson studio

Choose whether to create an empty project or to preload with date and analytical assets.add collaborators and date,and then choose the right tools to accomplish your goals.add service as necessary

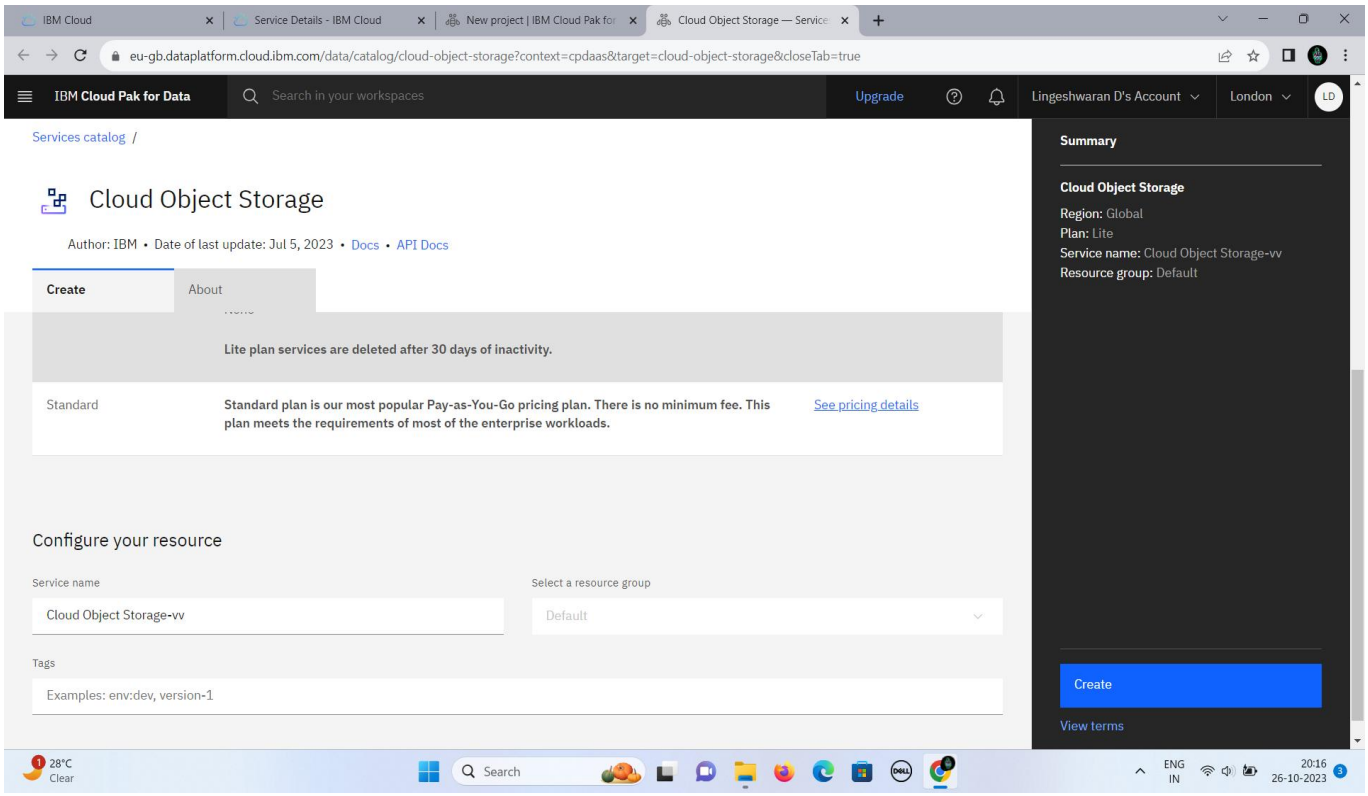


*Give your project name and description of your project

*Add free storage on IBM watson studio for our dataset (“Cloud Object Storage”)



*”cloud object storage” purchase process for storing a dataset



* After complete a name ,description & cloud object storage process and create your project

Figure 1:

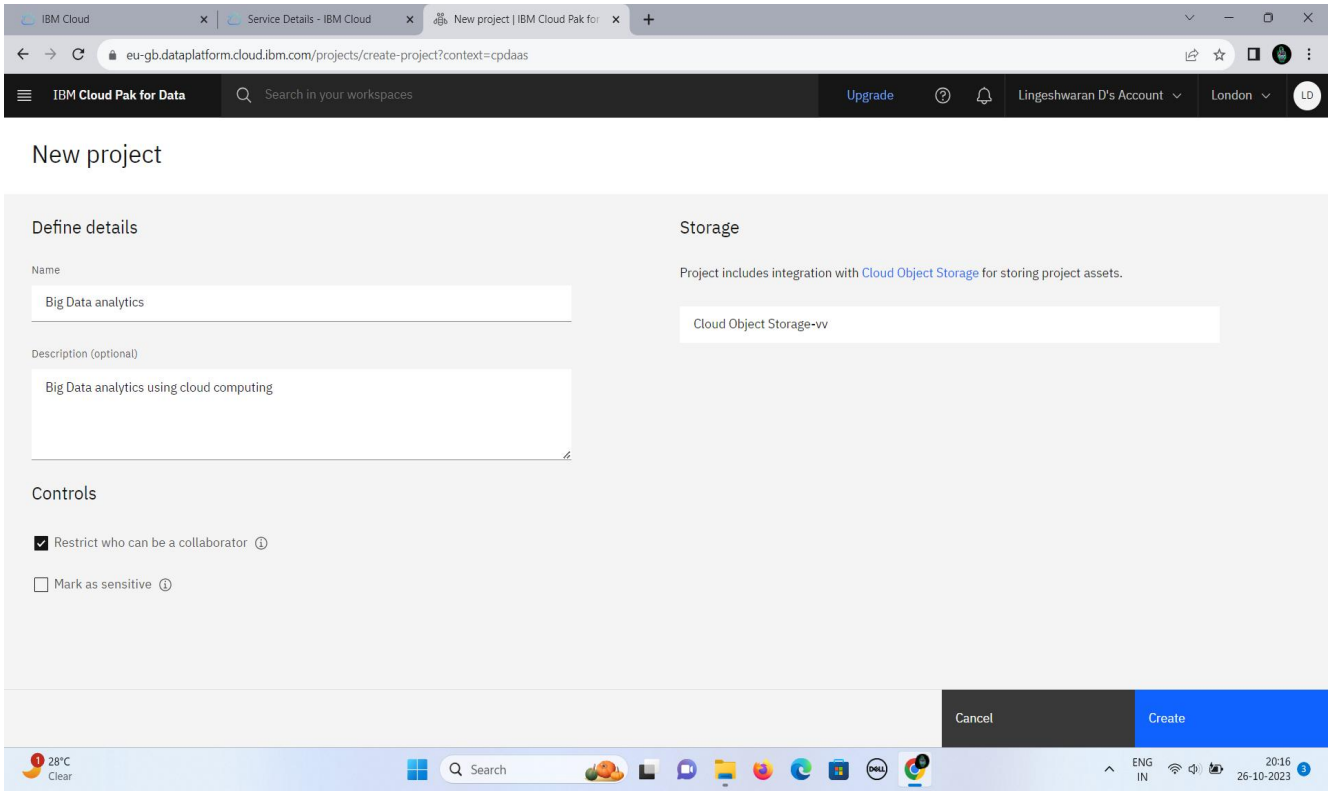
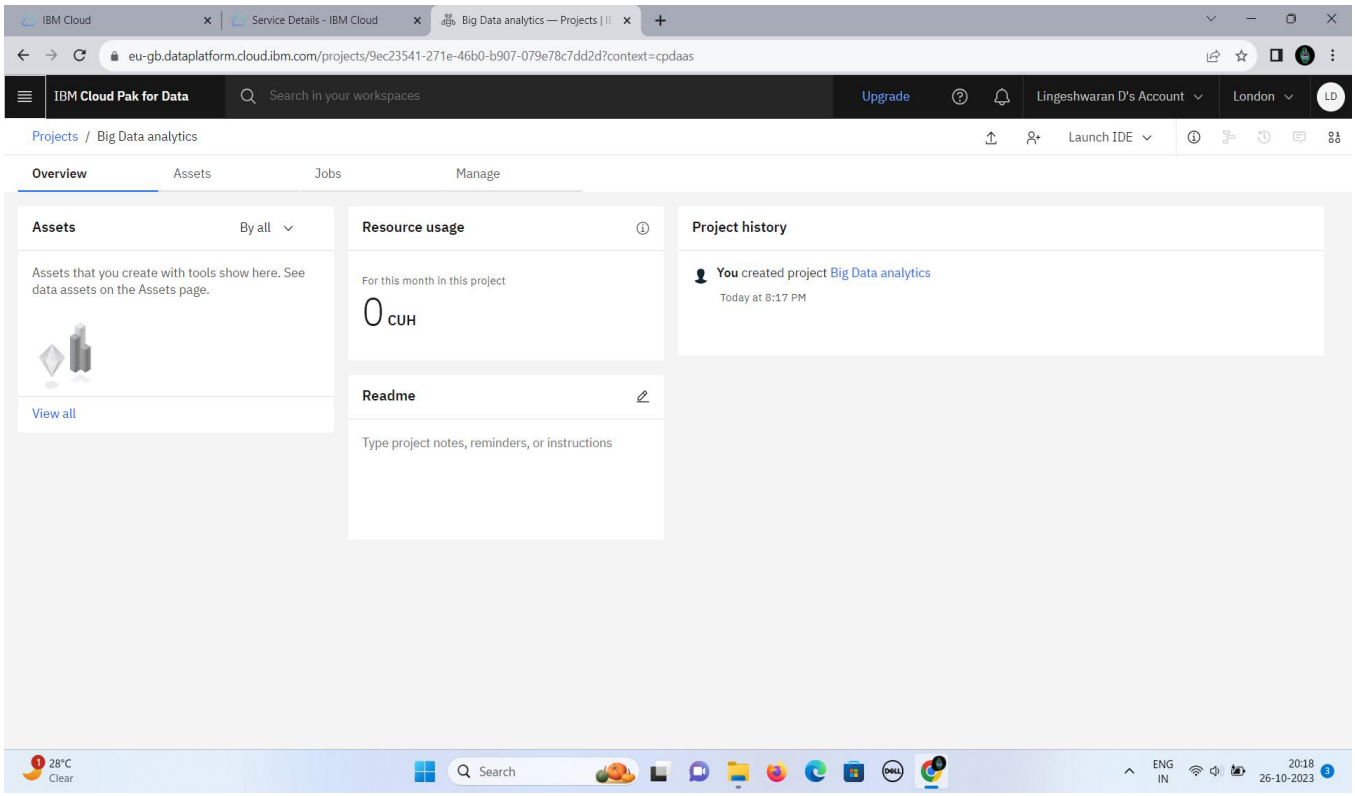


Figure 2:

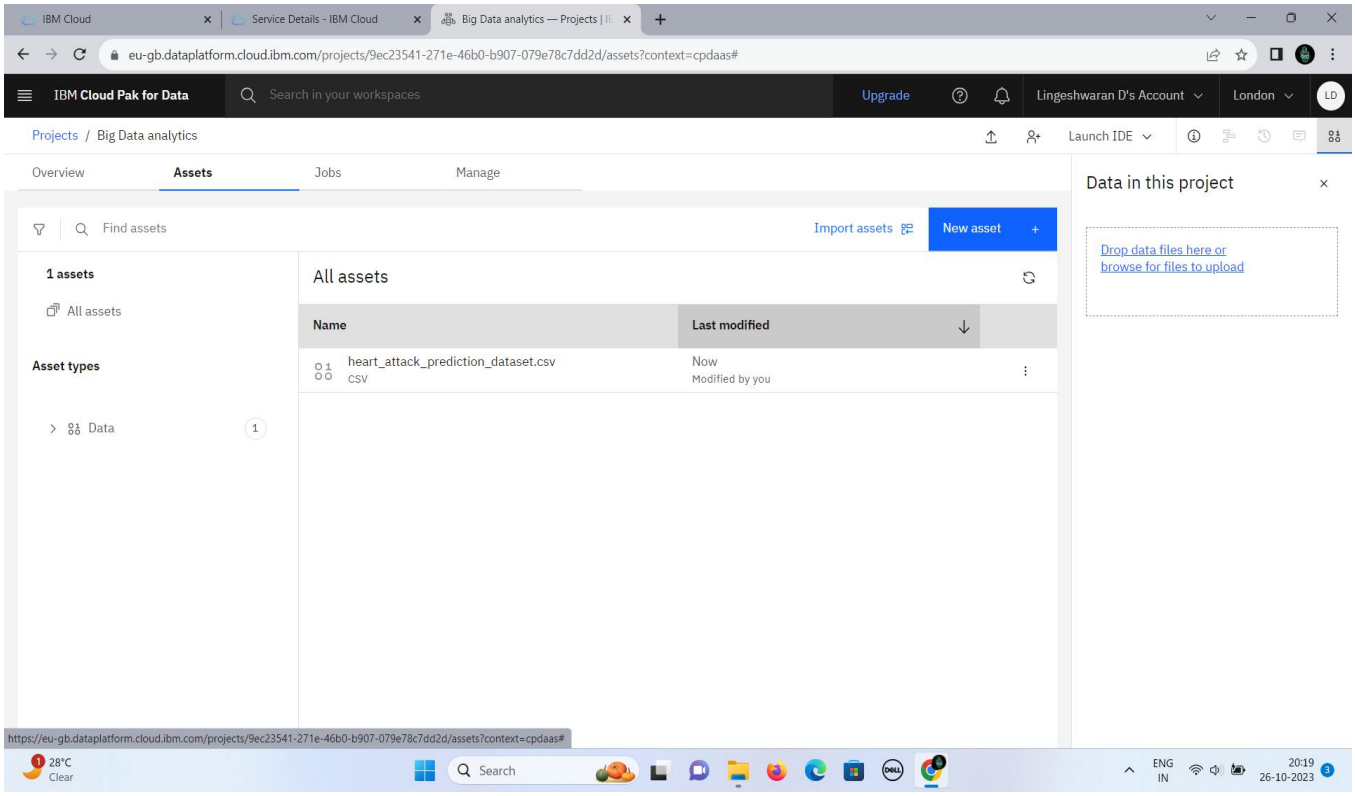

IBM Cloud
Service Details - IBM Cloud
Big Data analytics — Projects
eu-gb.dataplatform.cloud.ibm.com/projects/9ec23541-271e-46b0-b907-079e78c7dd2d?context=cpdaas
IBM Cloud Pak for Data
Search in your workspaces
Upgrade
Lingeshwaran D's Account
London
LD
Projects / Big Data analytics
Launch IDE
Overview
Assets
Jobs
Manage
Assets
By all
Assets that you create with tools show here. See data assets on the Assets page.
View all
Resource usage
For this month in this project
0 CUH
Readme
Type project notes, reminders, or instructions
Project history
You created project Big Data analytics
Today at 8:17 PM
28°C
Clear
Search
ENG
IN
20:18
26-10-2023

*Upload your csv dataset file on IBM watson studio (“heart_attack_prediction_dataset.csv”)

*click Assets to view our csv file

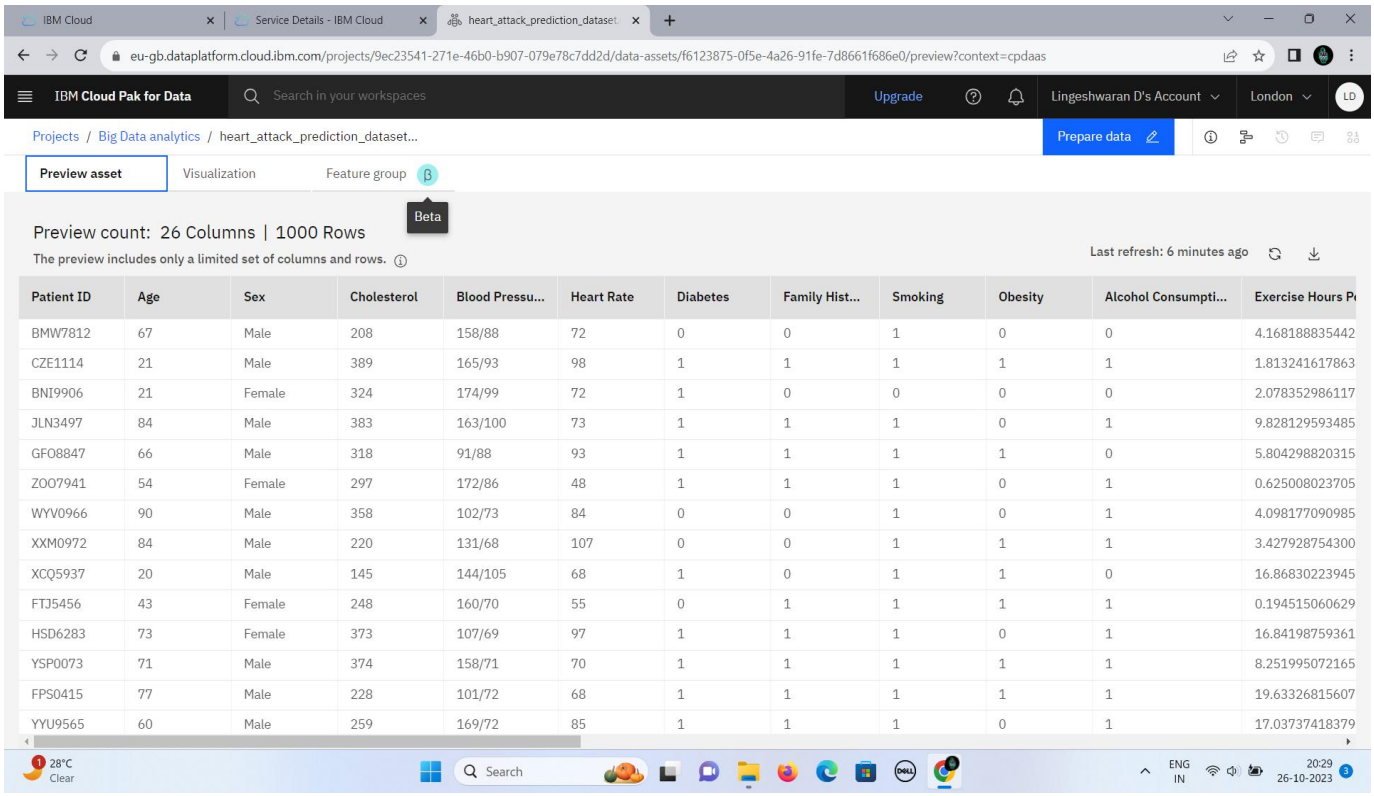
*click on your csv file for preview asset

Figure 1:



*select a visualizaiton on your csv.file

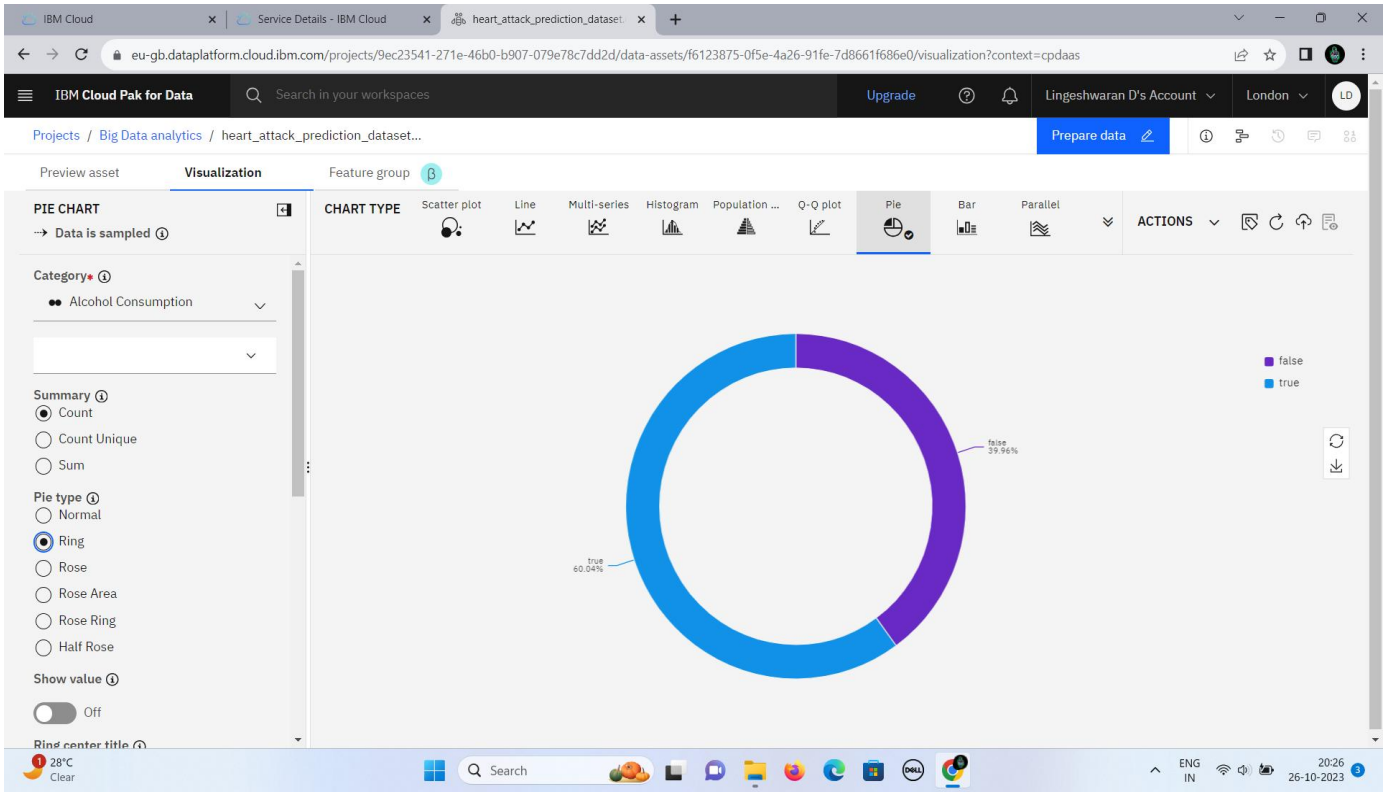
Figure 2:



Step 3:

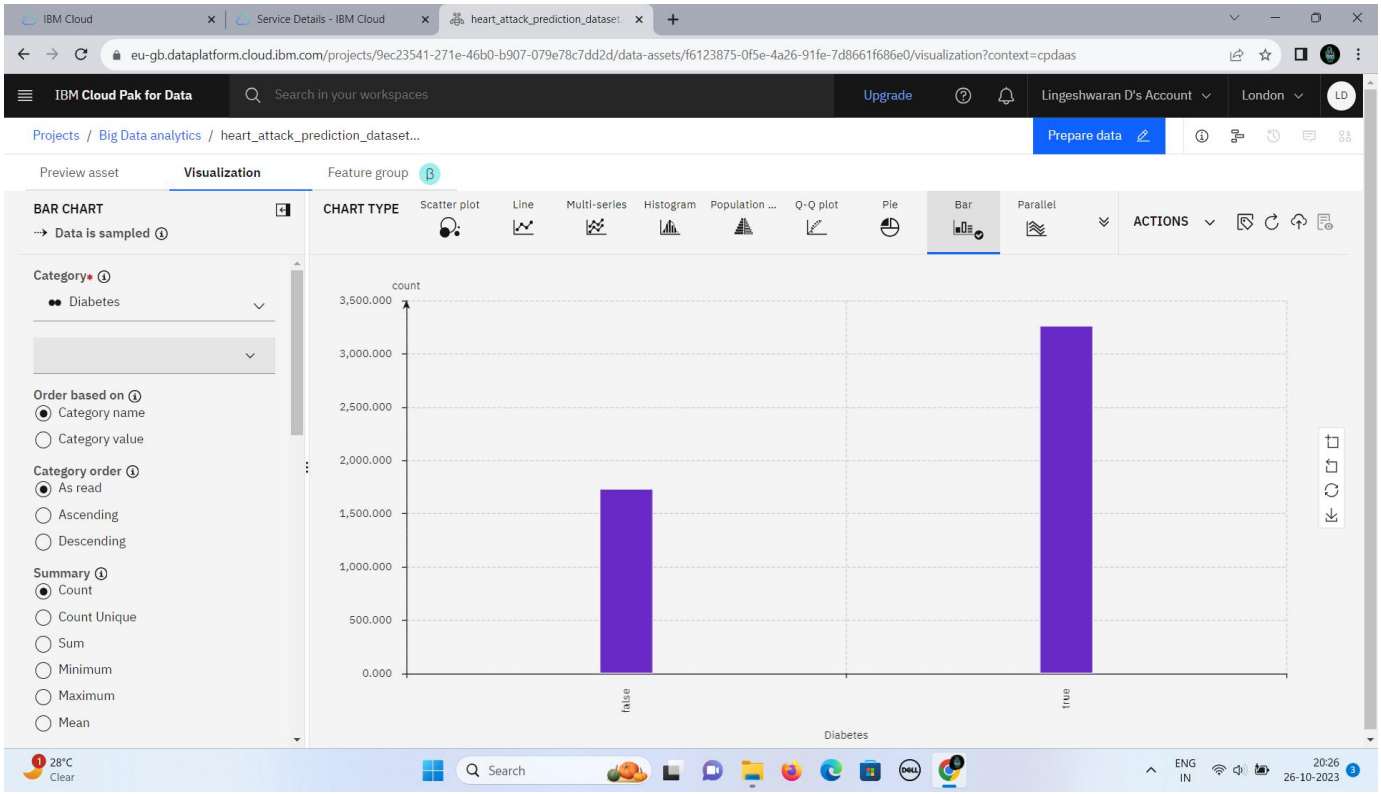
Visualization our dataset using IBM Watson studio

PIECHART:



BAR CHART:

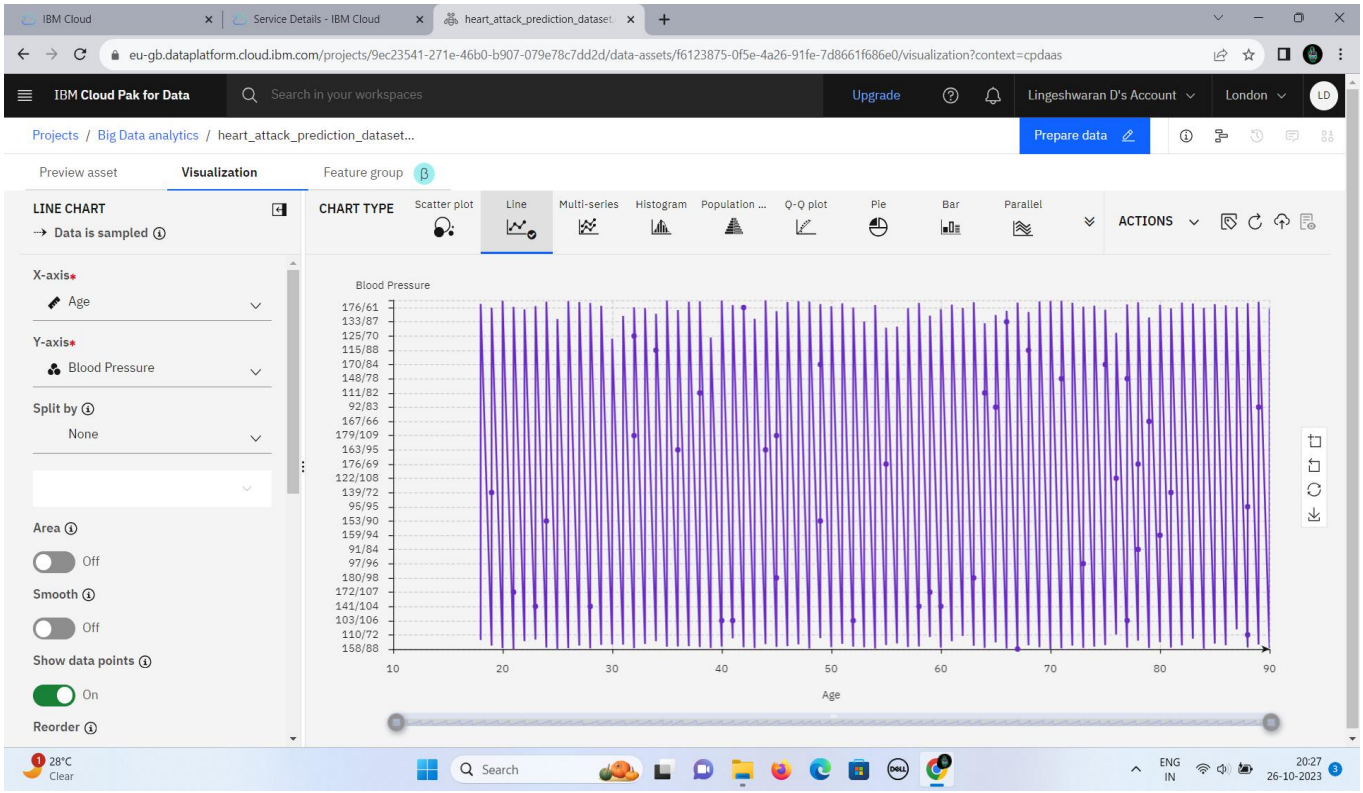
*For Diabetes



LINE CHART:

*X-AXIS(Age)

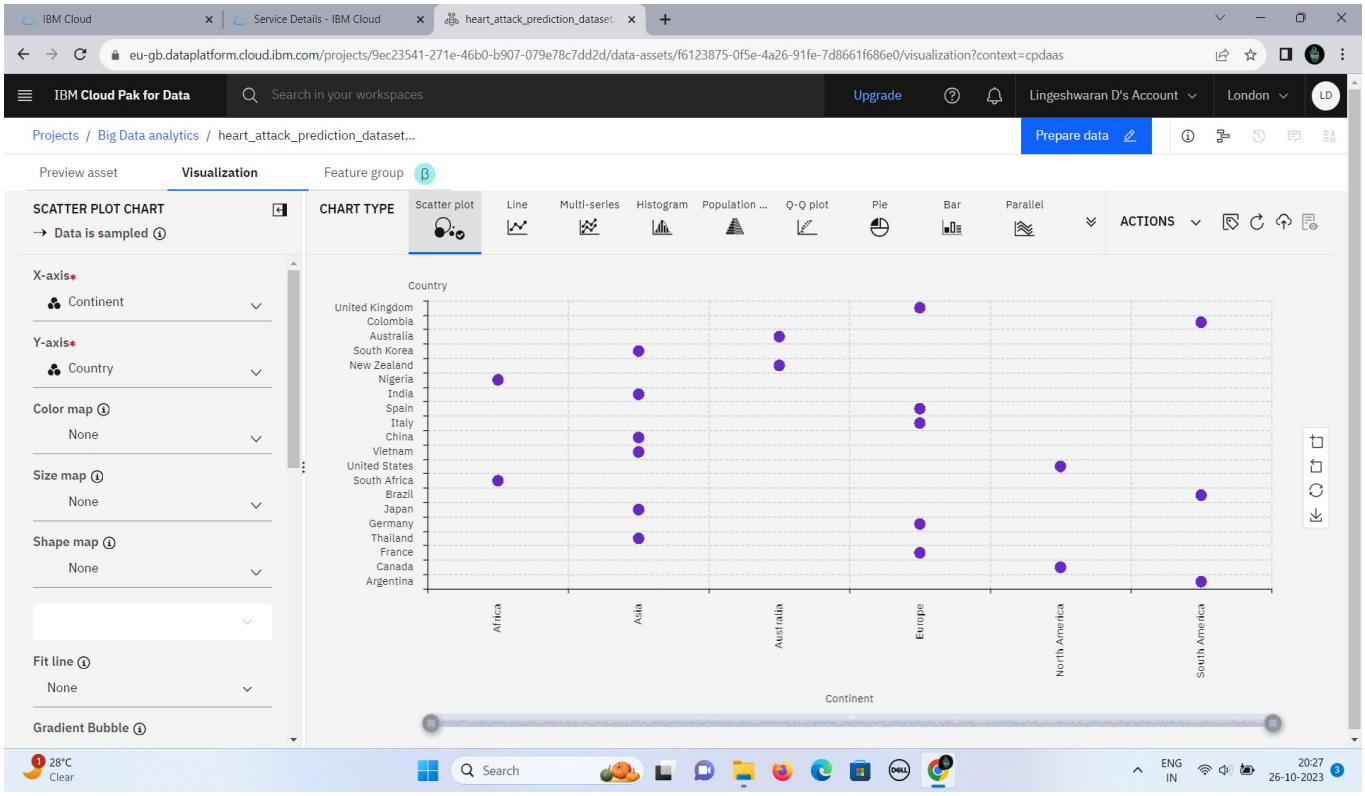
*Y-AXIS(Blood pressure)



SCATTER PLOT CHART:

*X-AXIS(CONTINENT)

*Y-AXIS(COUNTRY)

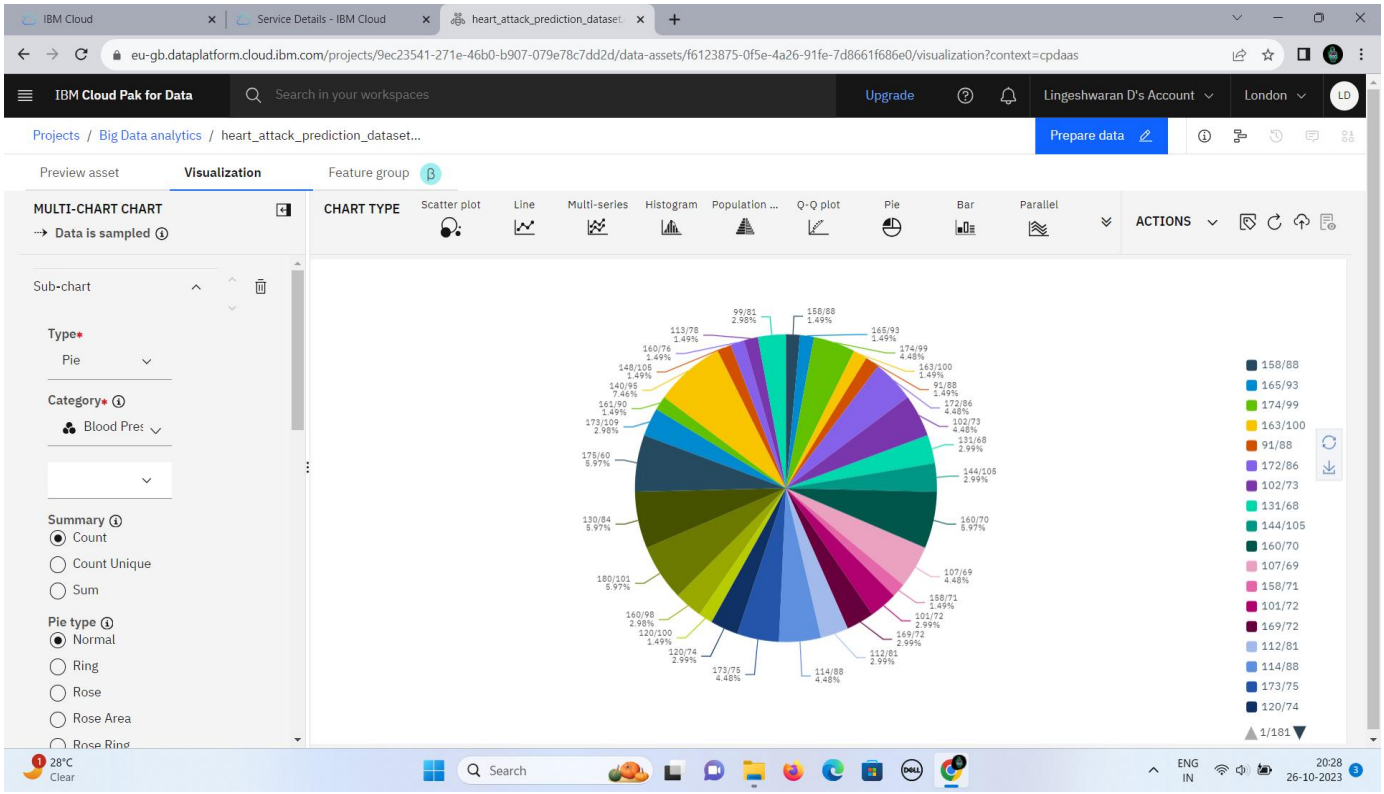


MULTI_CHART CHART:

SUB-CHART

*CATEGORY=BLOOD PRESSURE

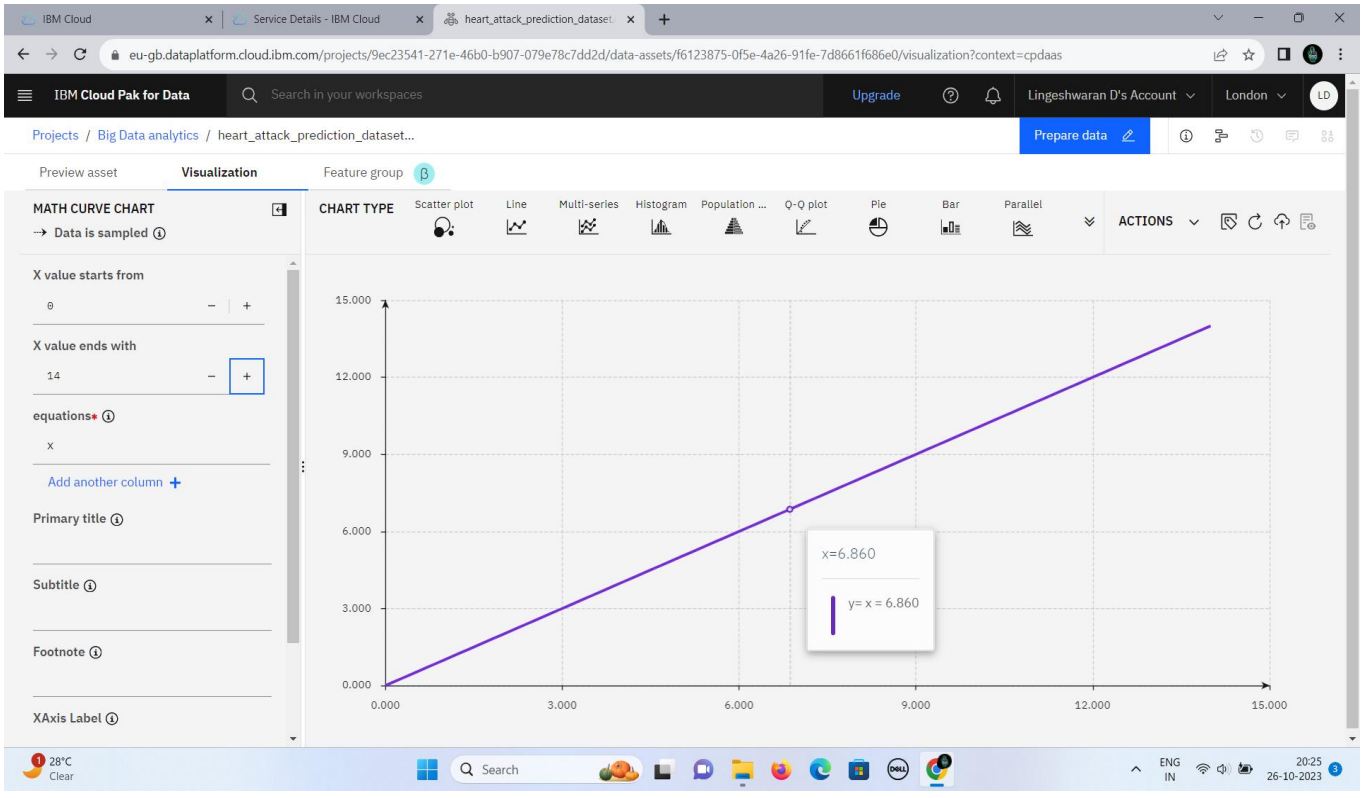
*TYPE=PIE



MATH CURVE CHART:

*X-AXIS(0)

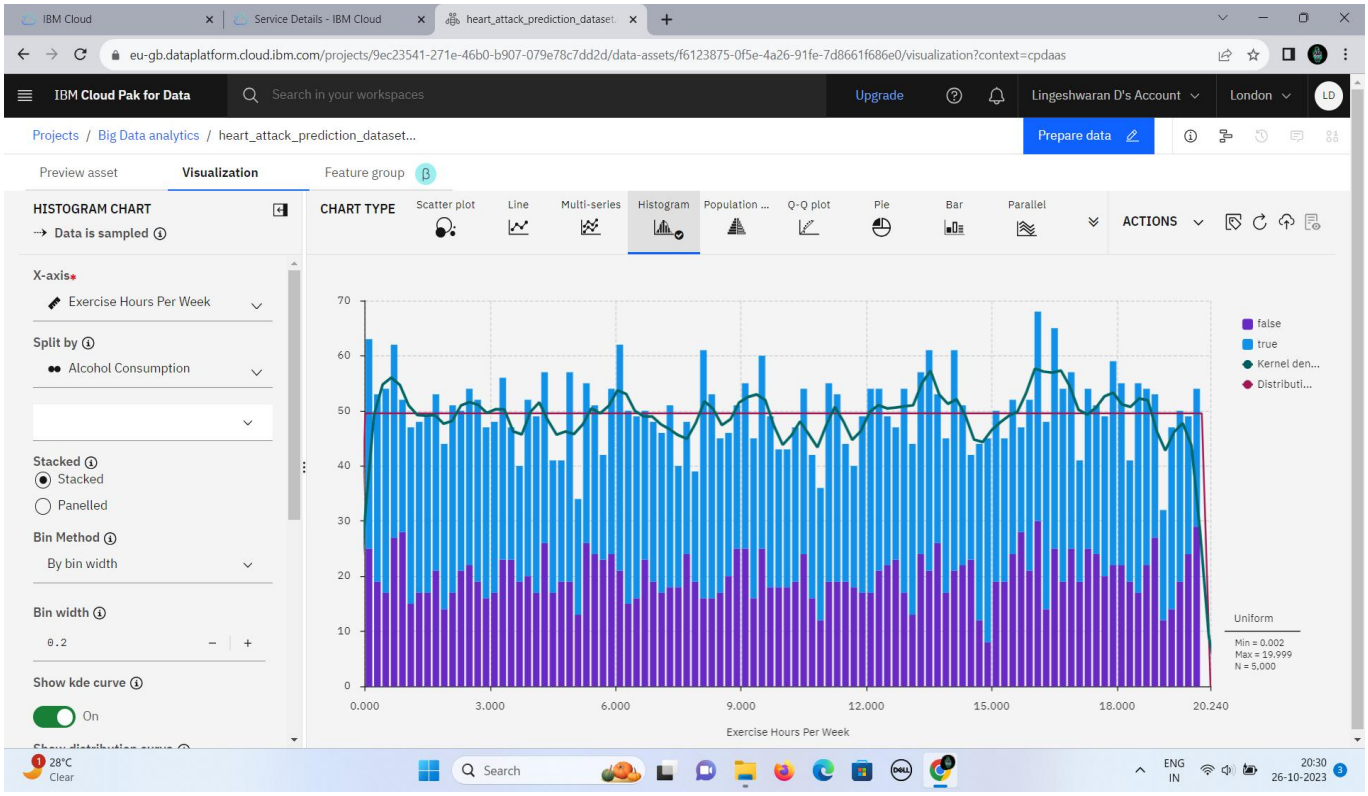
*Y-AXIS(14)



HISTOGRAM CHART:

*X-AXIS(EXERCISE HOURS PER WEEK)

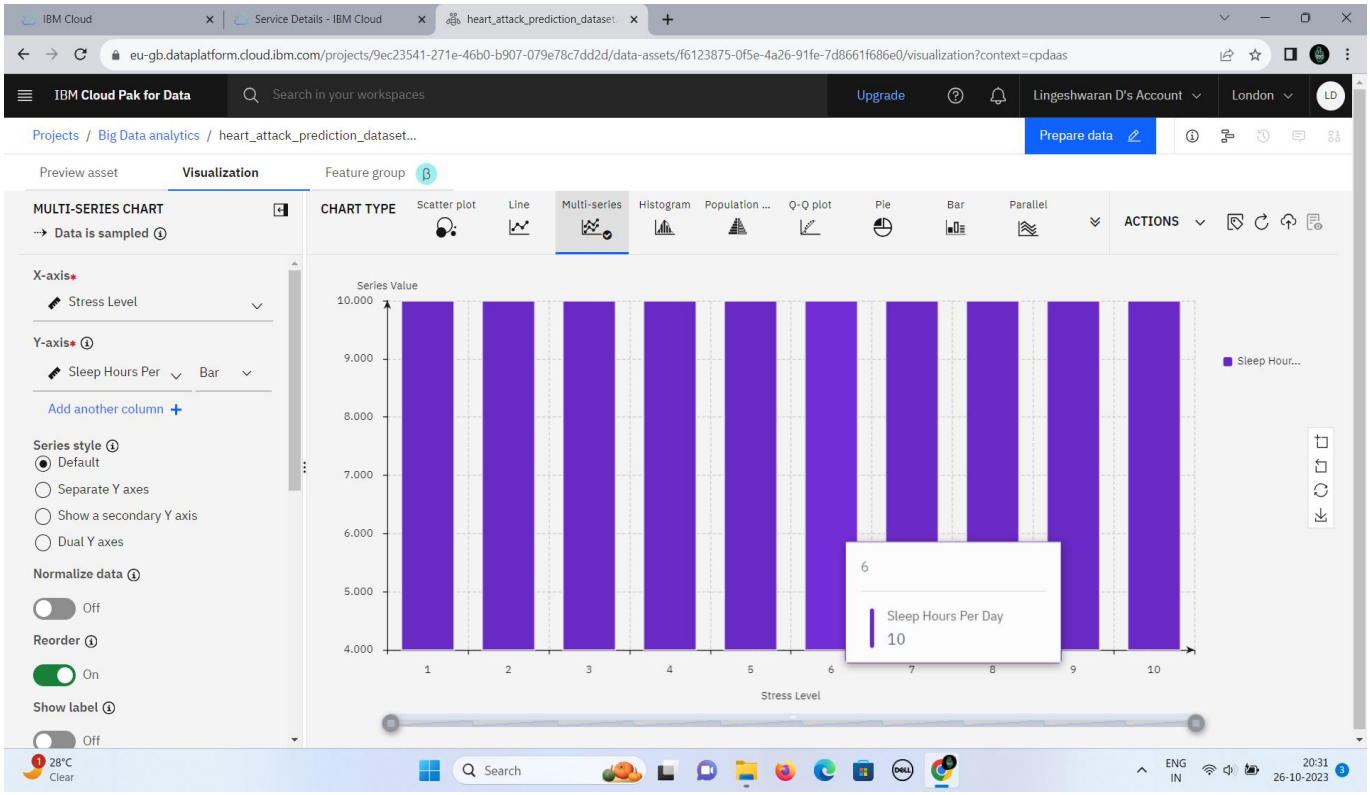
*SPLIT BY(ALCOHOL CONSUMPTION)



MULTI-SERIES CHART:

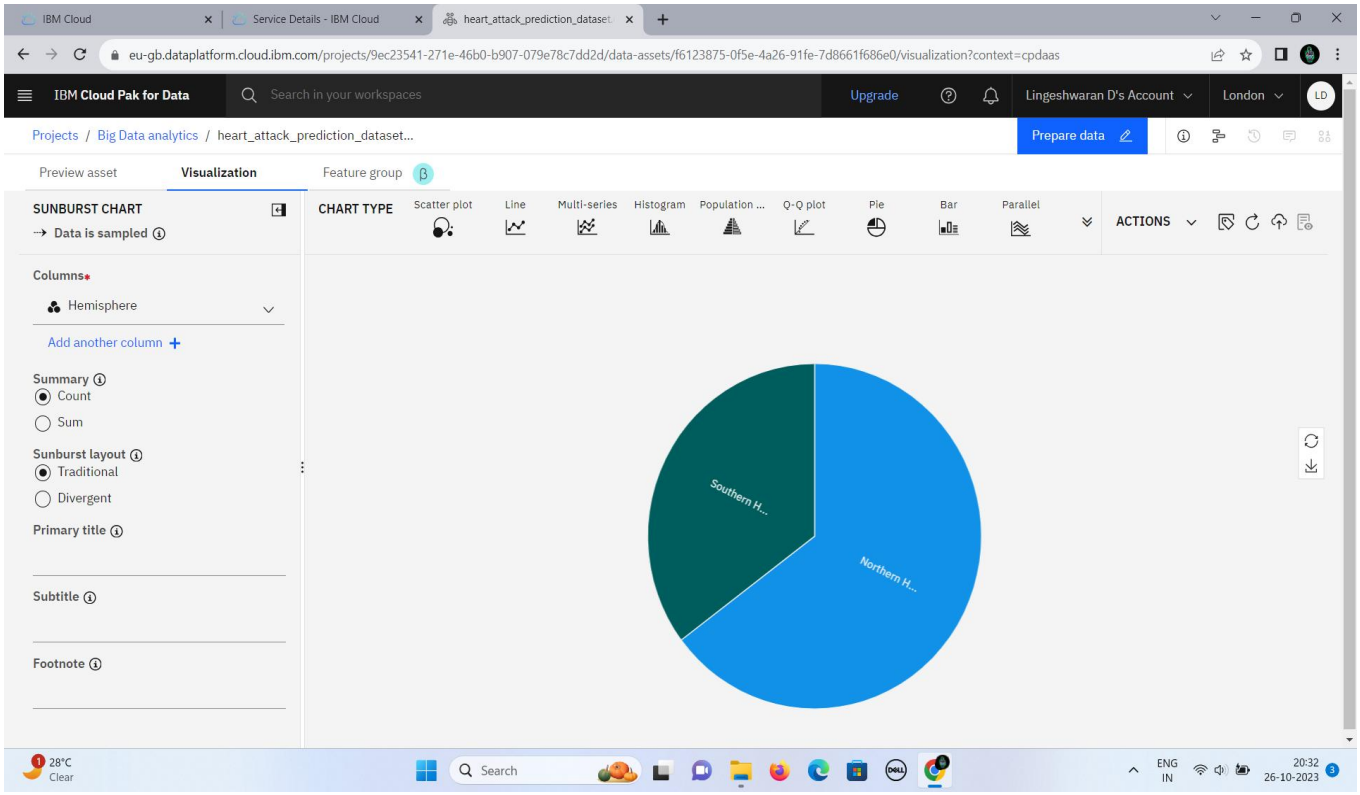
*X-AXIS(STRESS LEVEL)

*Y-AXIS(SLEEP HOURS PER WEEK)



SUNBURST CHART :

COLUMNS=HEMISPHERE



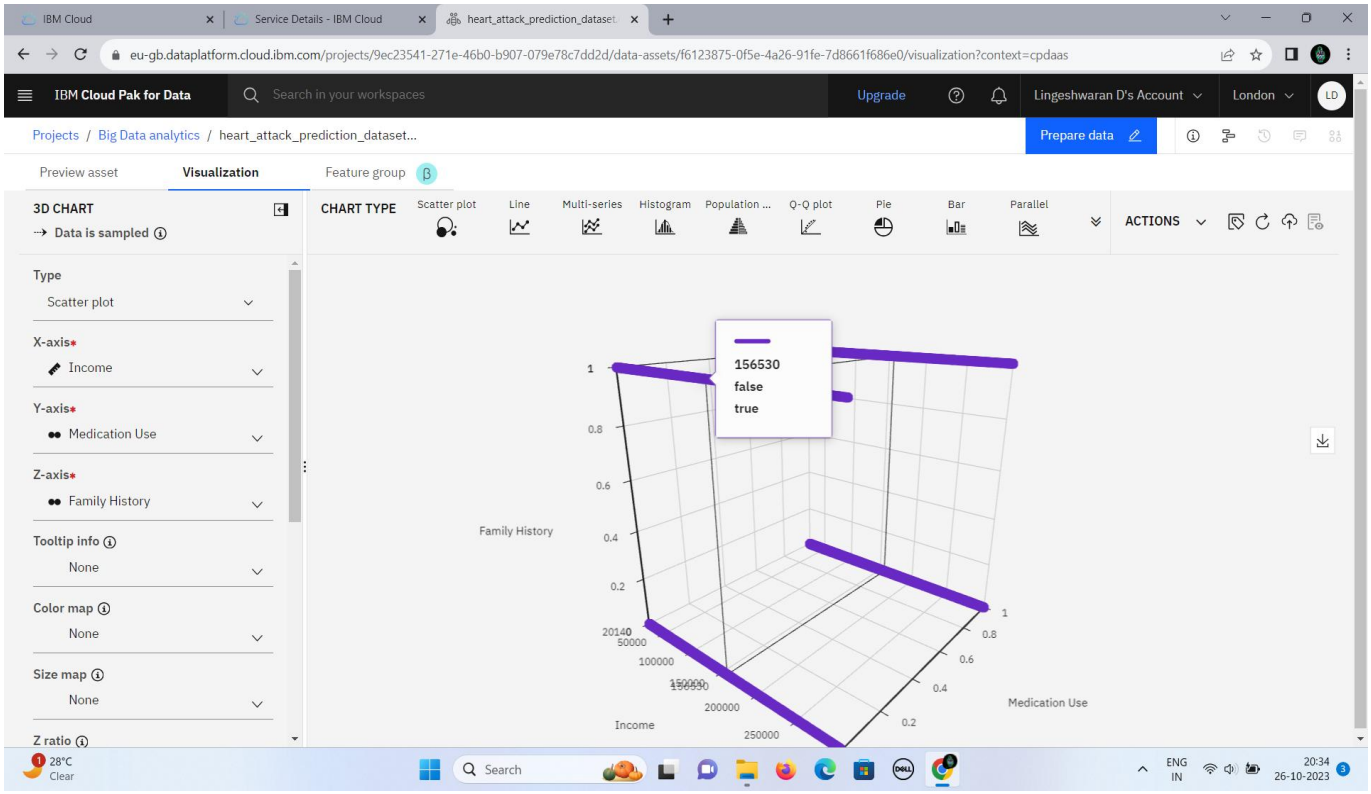
3D CHART:

*TYPE()

*X-AXIS(INCOME)

*Y-AXIS(MEDICINE USE)

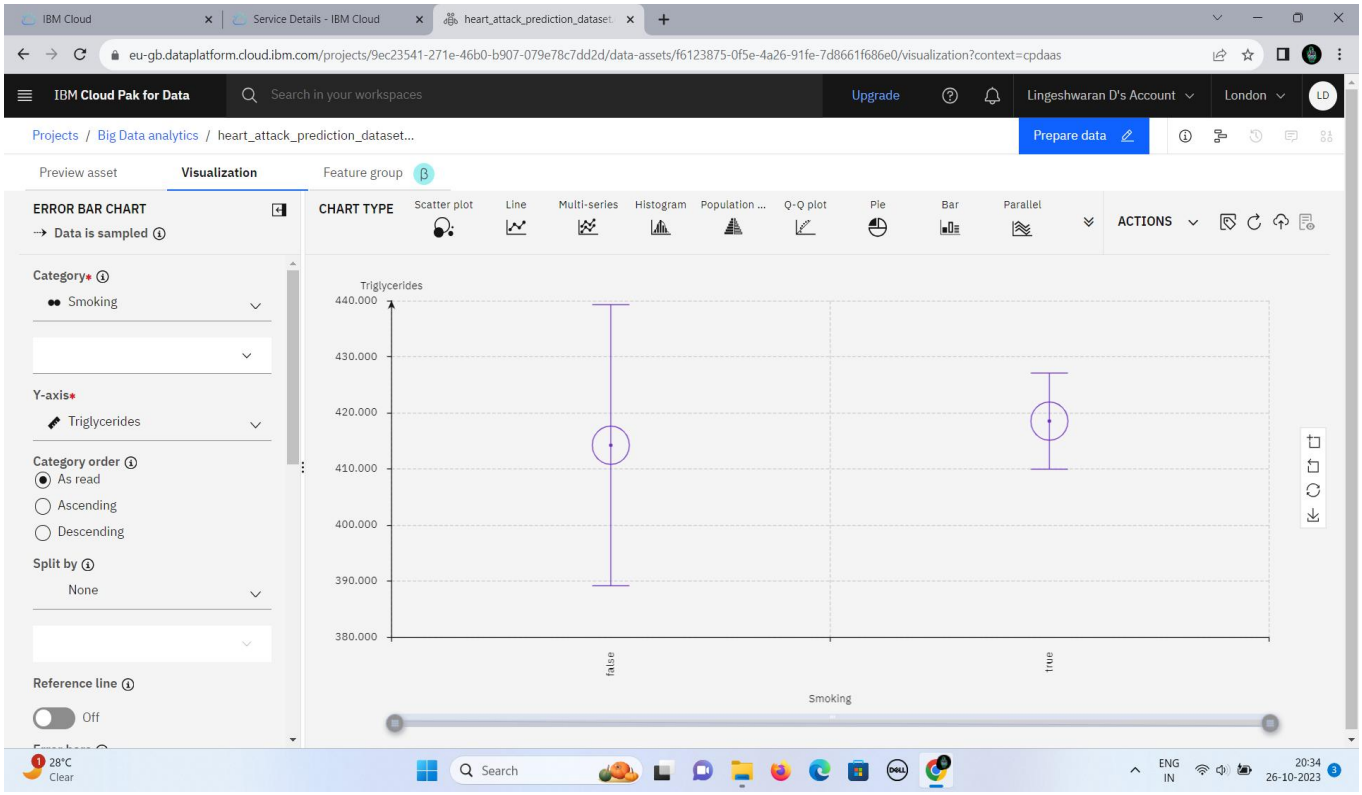
*Z-AXIS(FAMILY HISTORY)



ERROR BAR CHART:

*CATEGORY(SMOKING)

*Y-AXIS(TRIGLYCERIDES)



CONCLUSION:

In this, part we will build our project. Continue build the big data analysis solution by applying advanced analysis techniques and visualizing the results. Apply more complex analysis techniques, such as machine learning algorithms, time series analysis, or sentiment analysis, depending on the dataset and objectives. Create visualizations to showcase the analysis results. Use tools like IBM Watson Studio for creating graphs and charts.