Ganpat University | Institute of Computer Technology
॥ विद्यया समाजोत्कर्षः ॥

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Sub: EADC (Enterprise Application Development for Cloud)

Branch: CBA

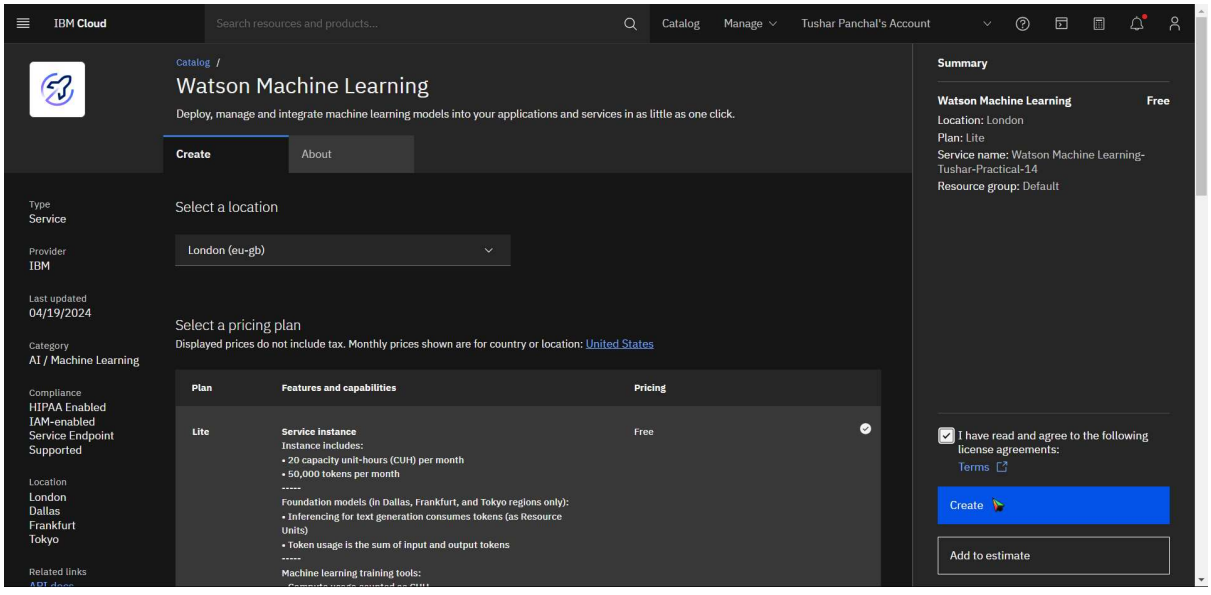
Batch:61

----------PRACTICAL 16----------

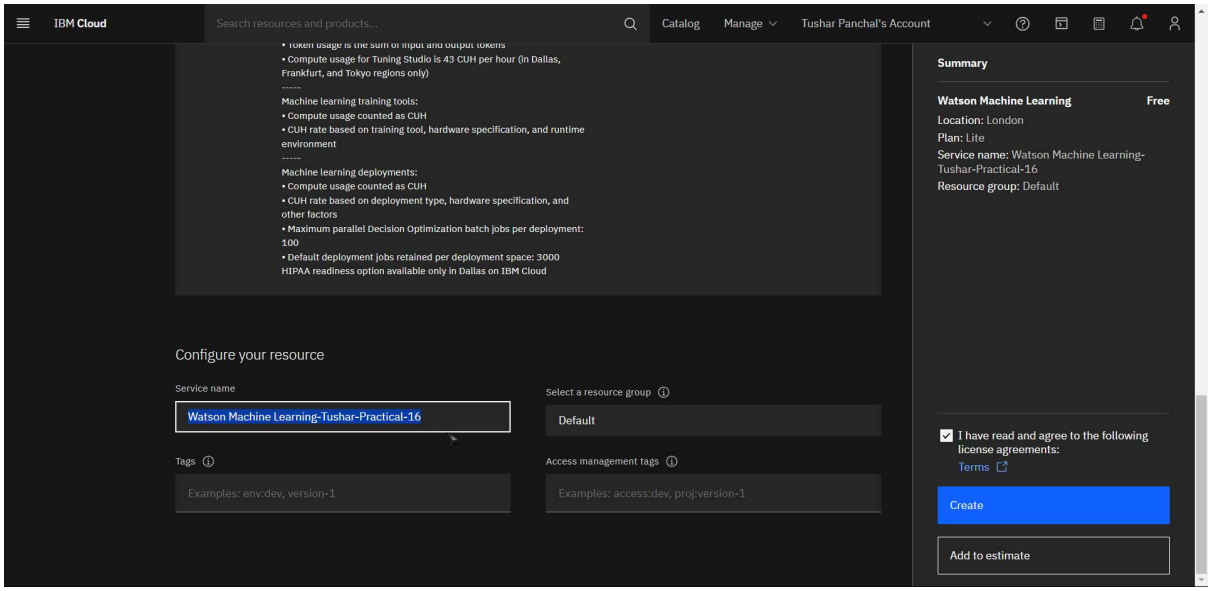
❖ AIM :

Using IBM Cloud, Create Auto A.I (Artificial Intelligence) using Machine Learning Instances to train a Model for various scenarios based on Cognitive Scale Cloud Industry. Demonstrate a service called automation in Artificial Intelligence (AI) to train custom models that will be utilized by the industry use case.

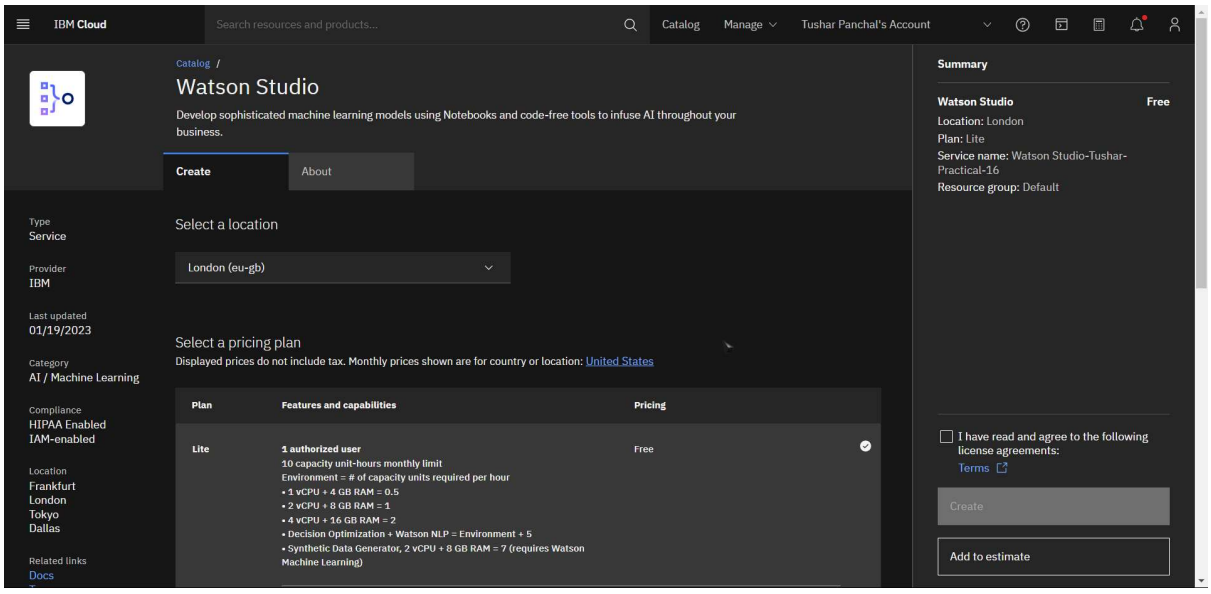
Login to IBM cloud and navigate watson machine learning



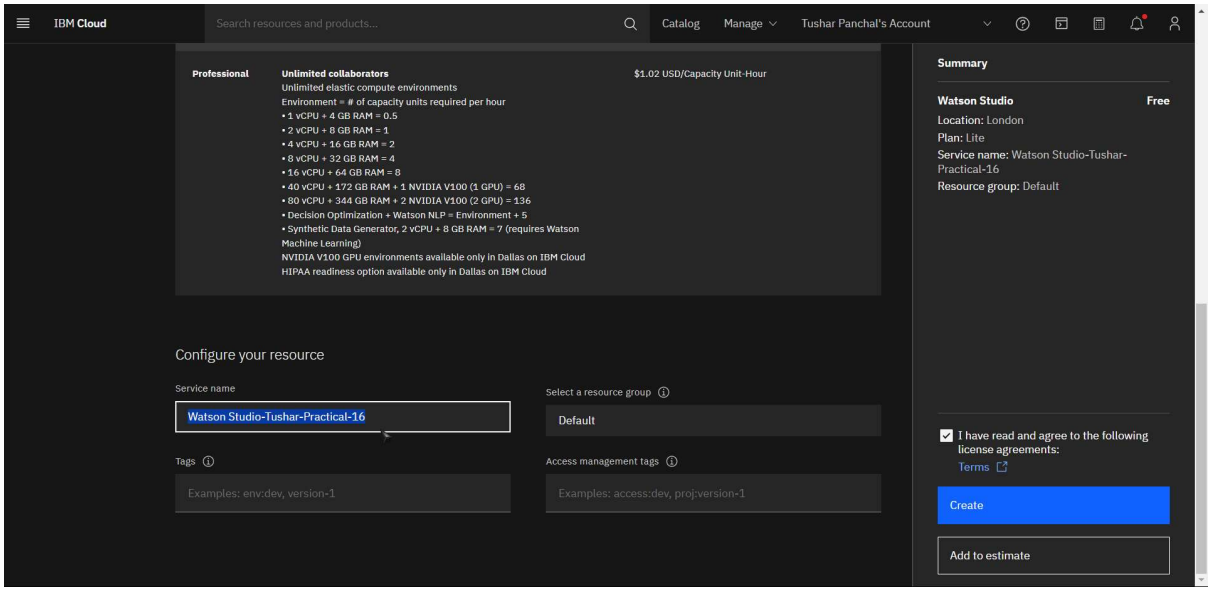
Name it and hit create



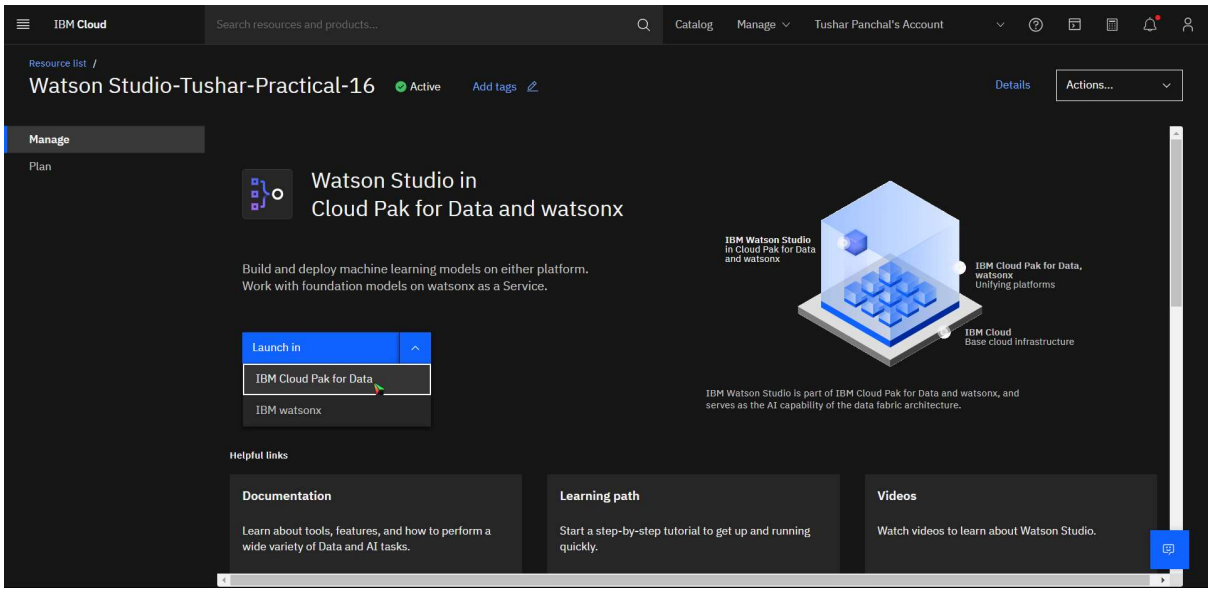
Now navigate Watson Studio



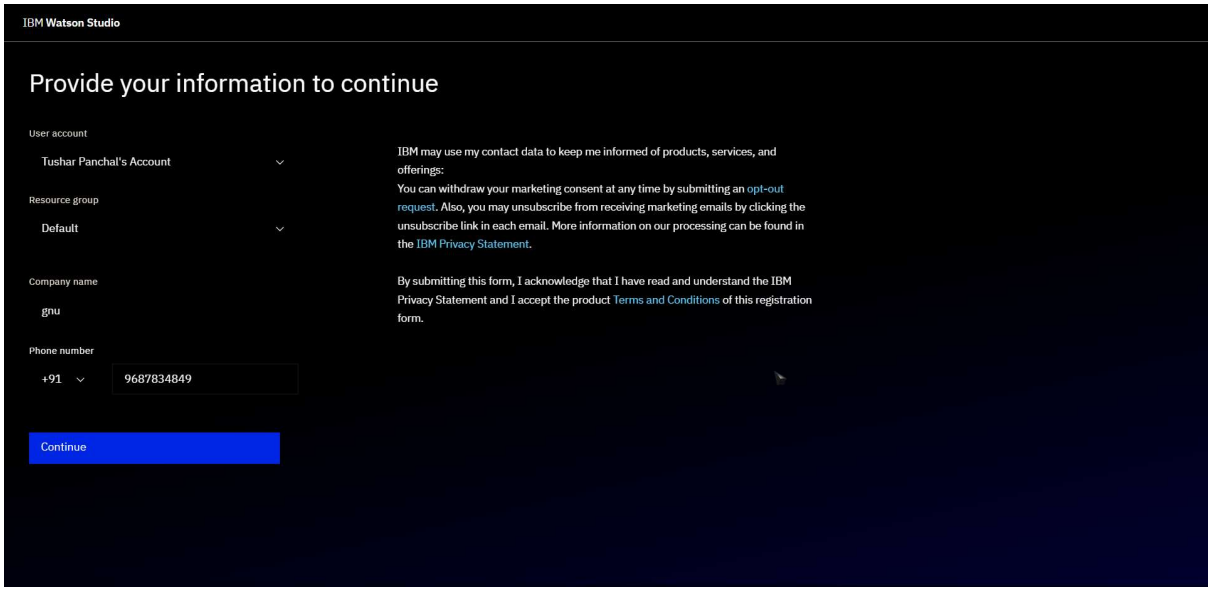
Name it and hit create



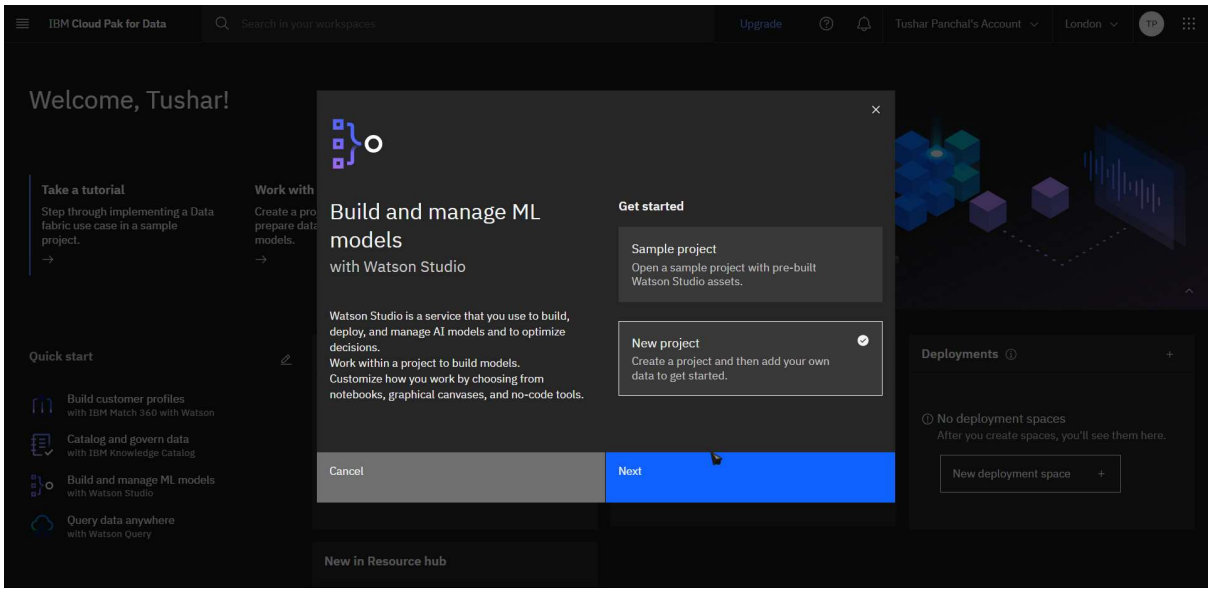
Here we can see the service is created now click on Launch in IBM Cloud Pak for Data



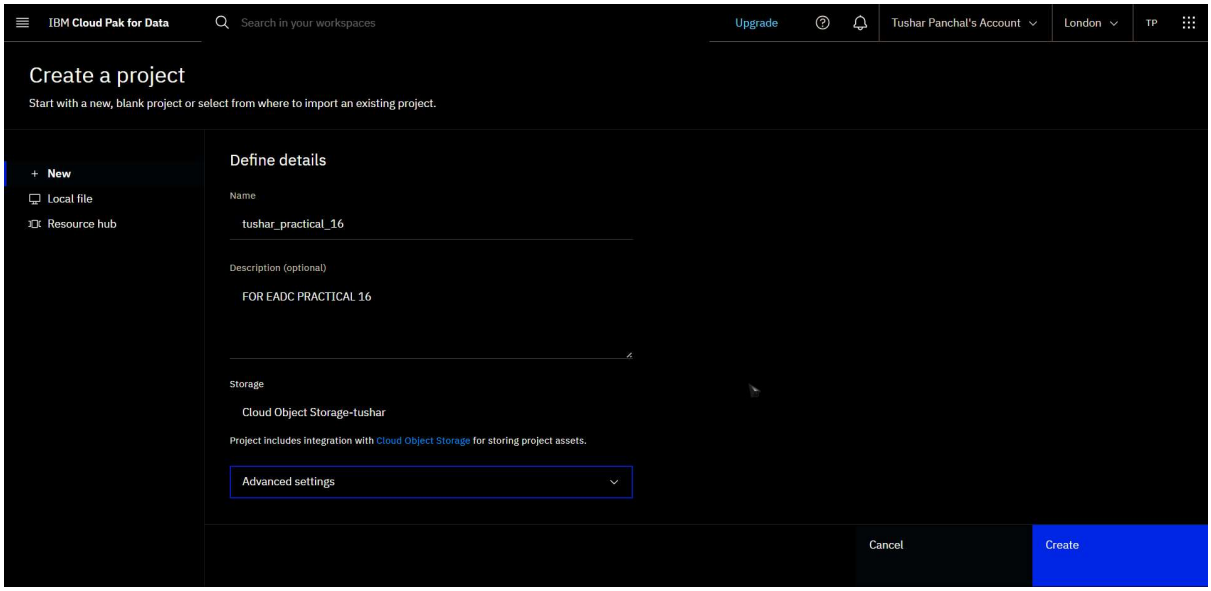
Now give company name and mobile number than click on continue



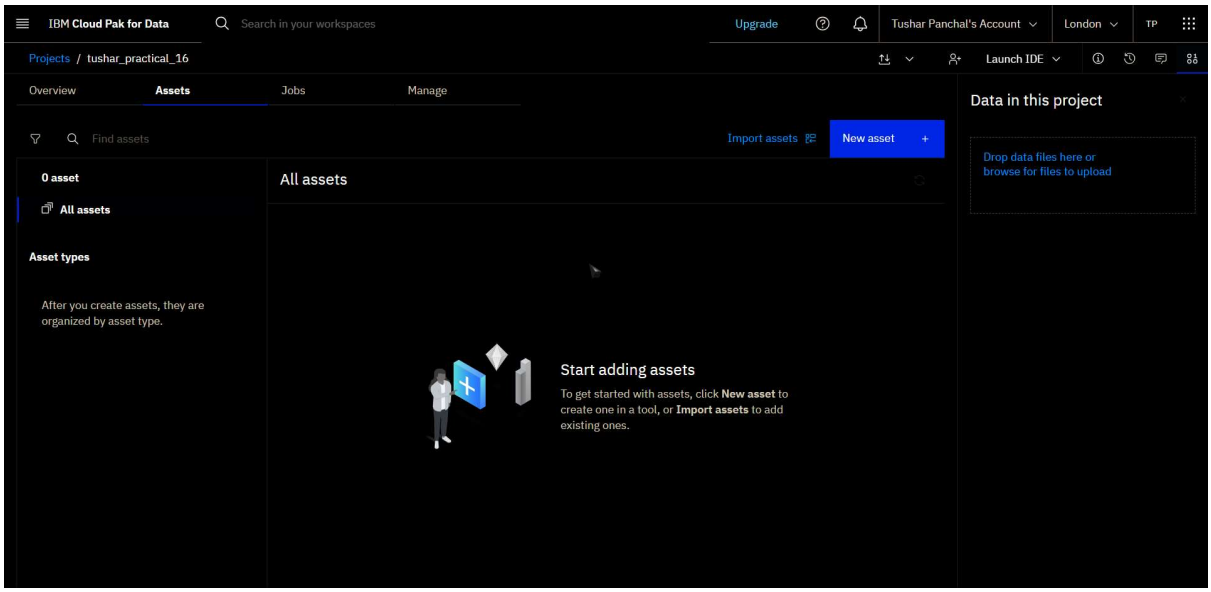
Now select new project and click next



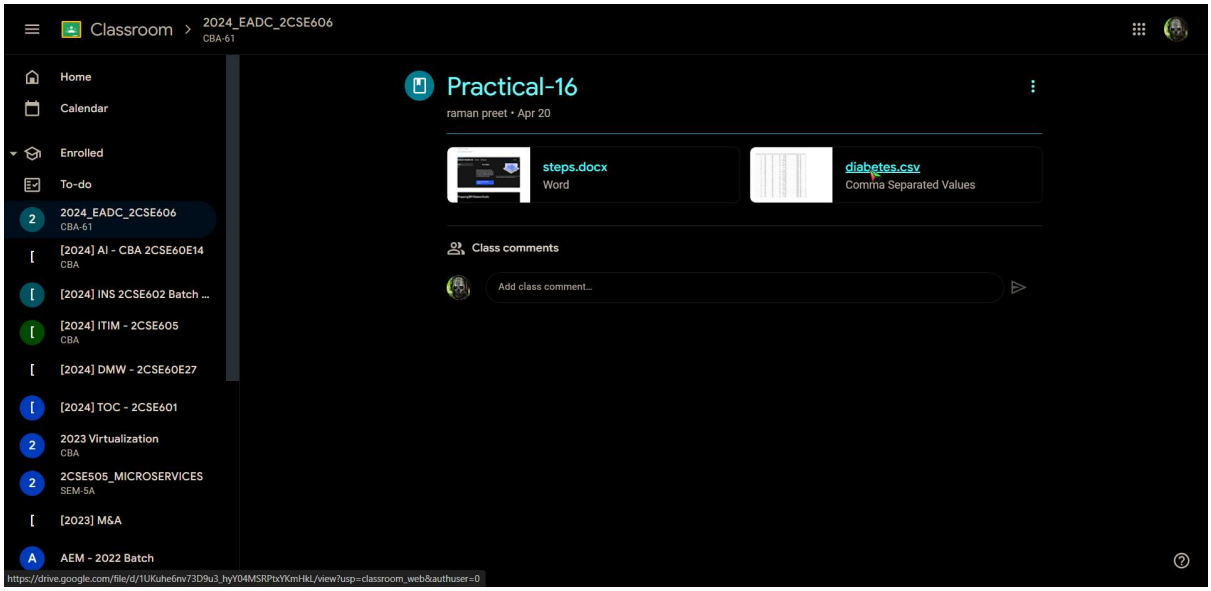
Now give name, description and Cloud Object Storage than click create



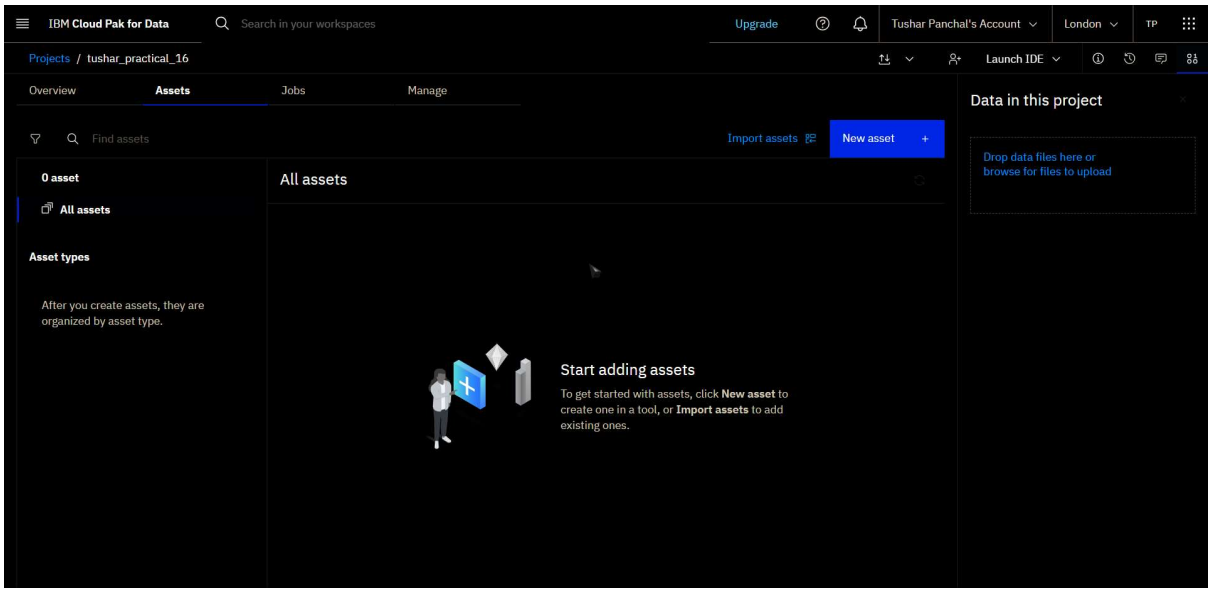
Service is created now go in Assets than click on import assets



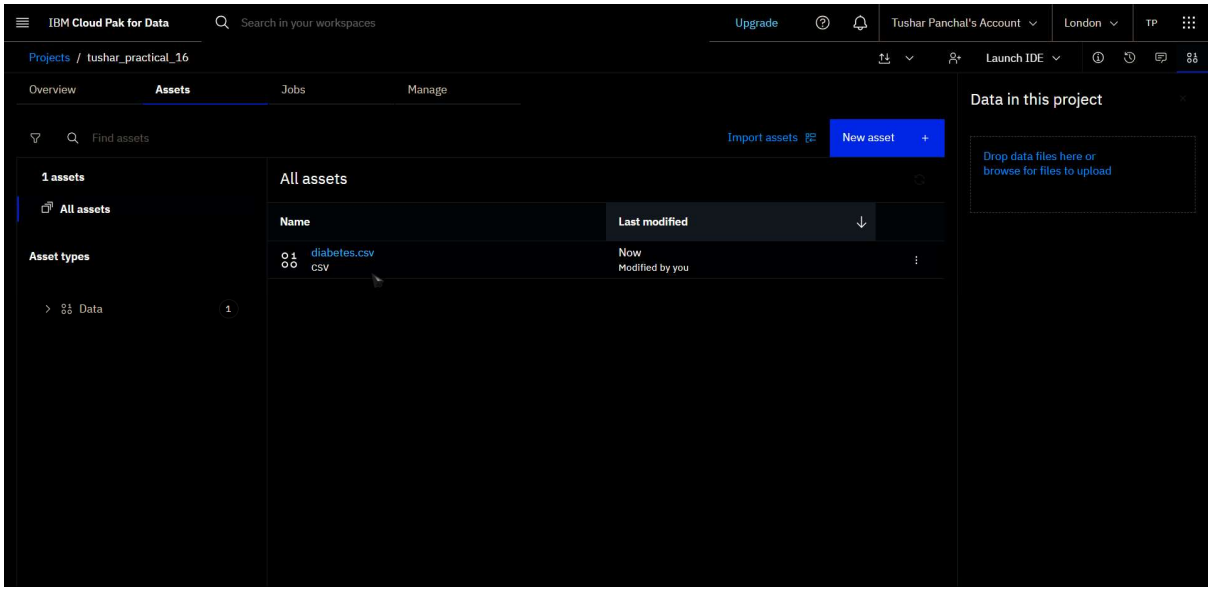
Now download this diabetes.csv



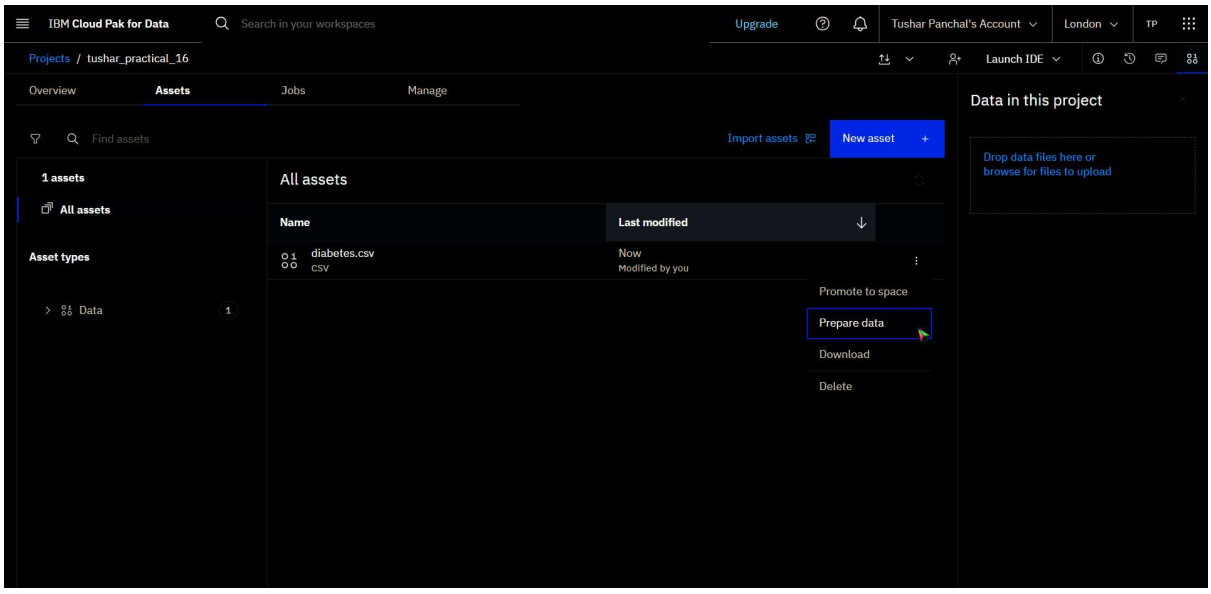
Import this .csv file here



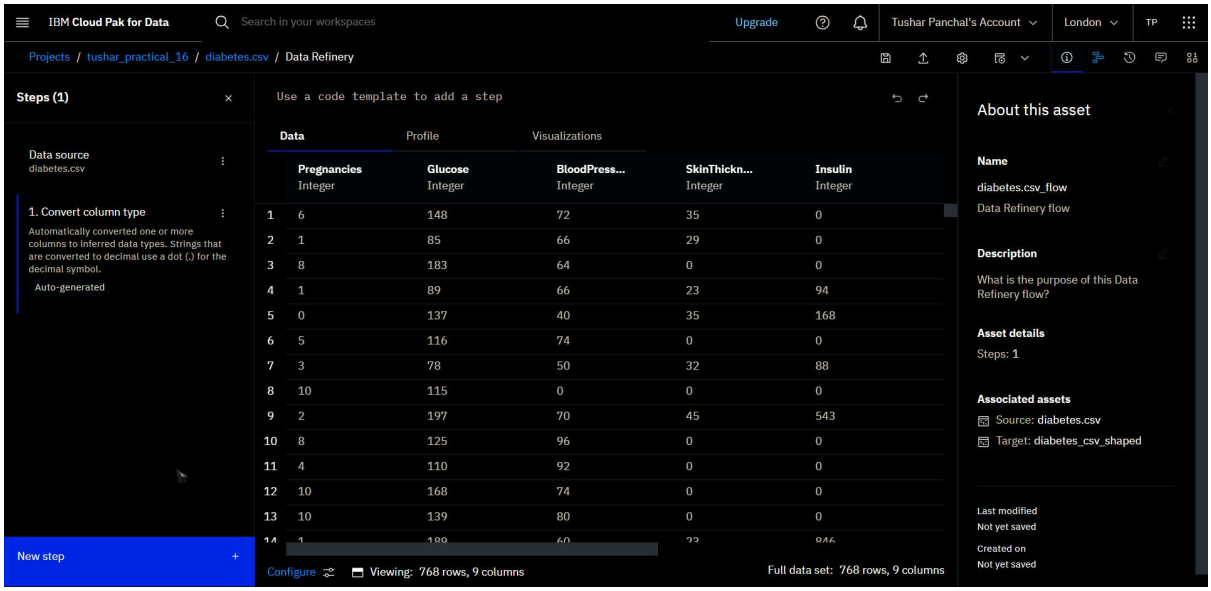
As we can see diabetes.csv file is imported



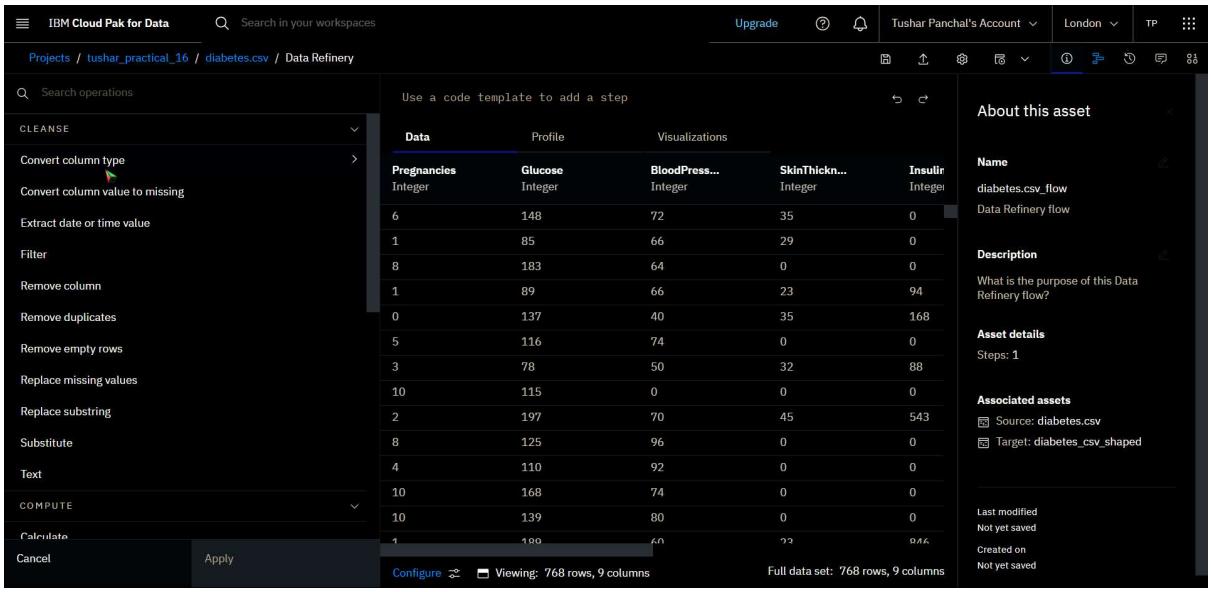
Now click on three dots of that file and open prepare data



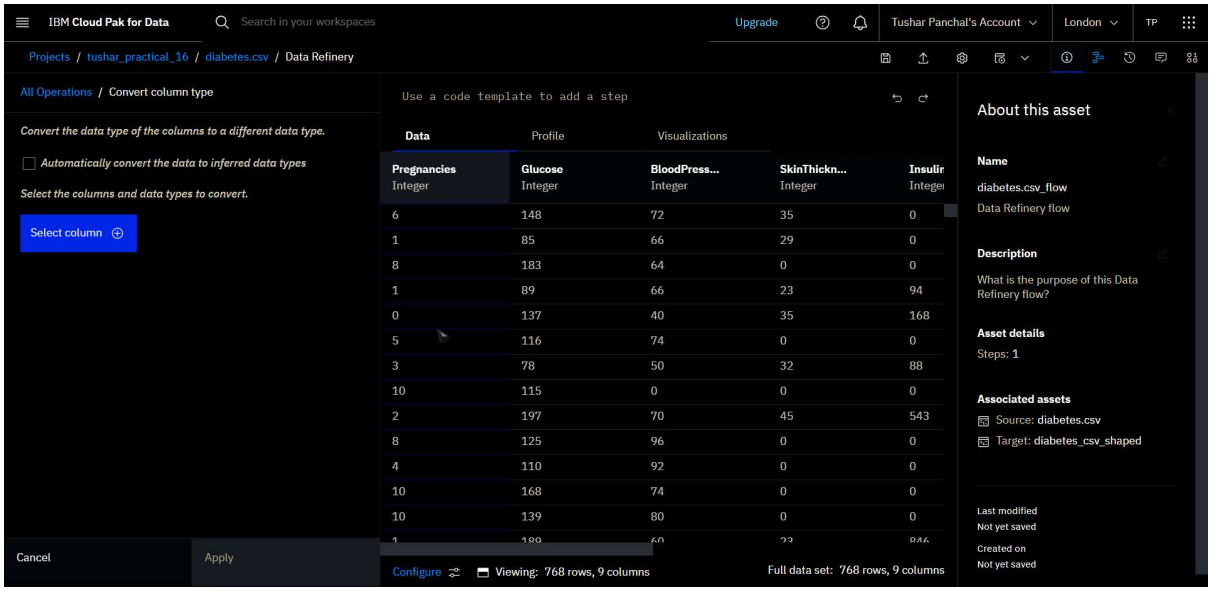
After opening As we can see Data refinery of all data like IBM, Age etc. Now click on “new step”



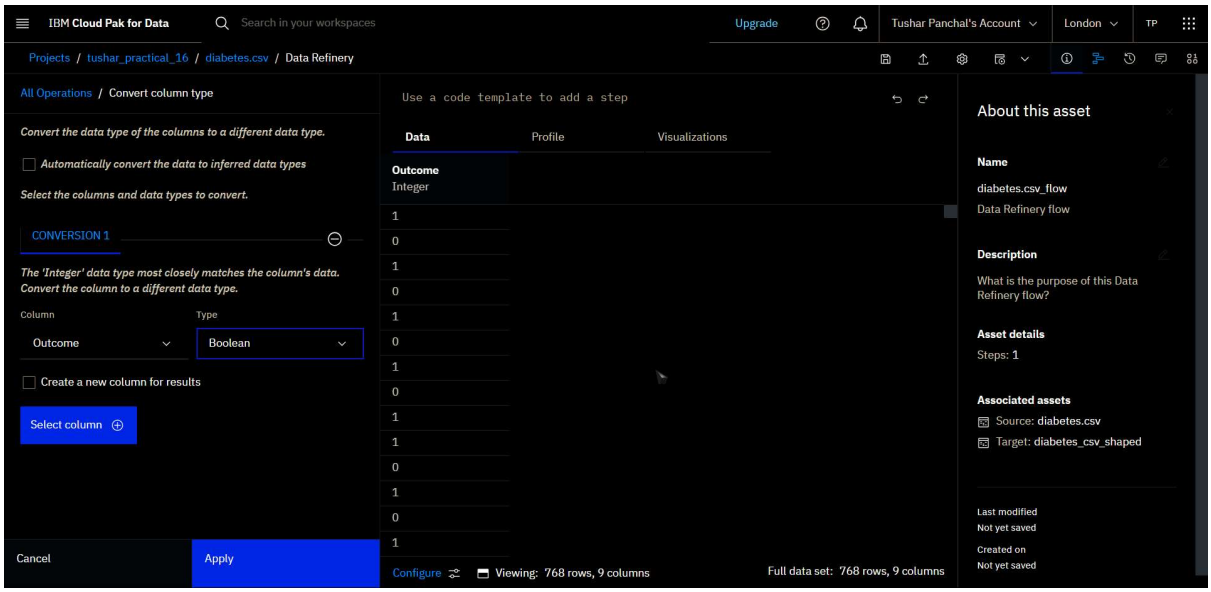
Than click on convert column type



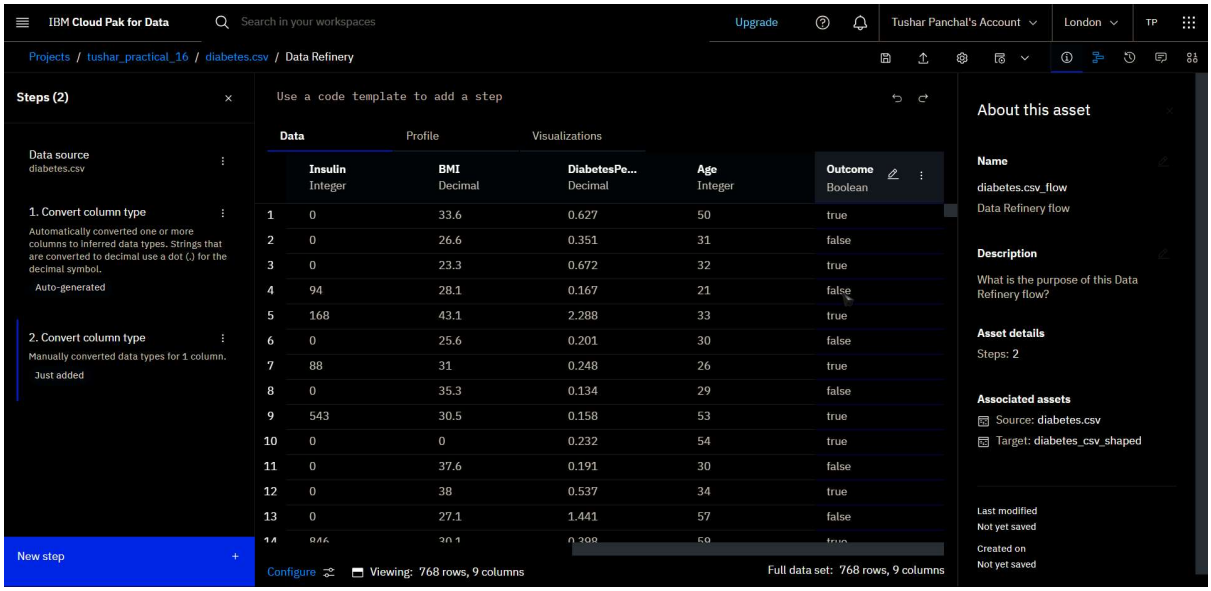
Now click on select column



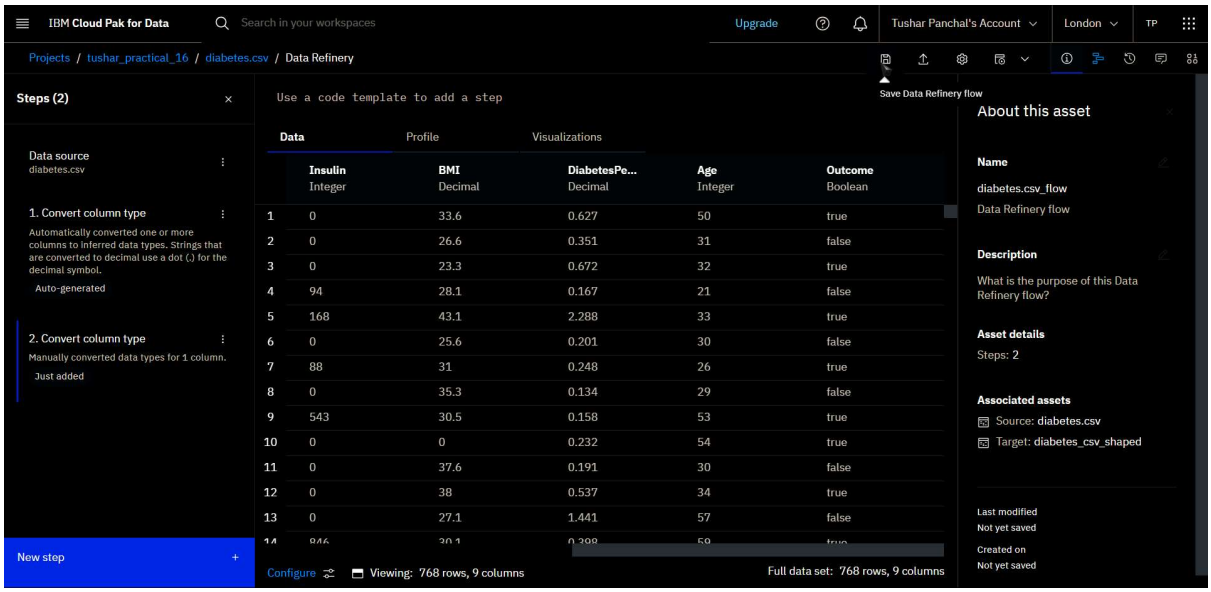
Column select outcome and type:- “Boolean” than click Apply



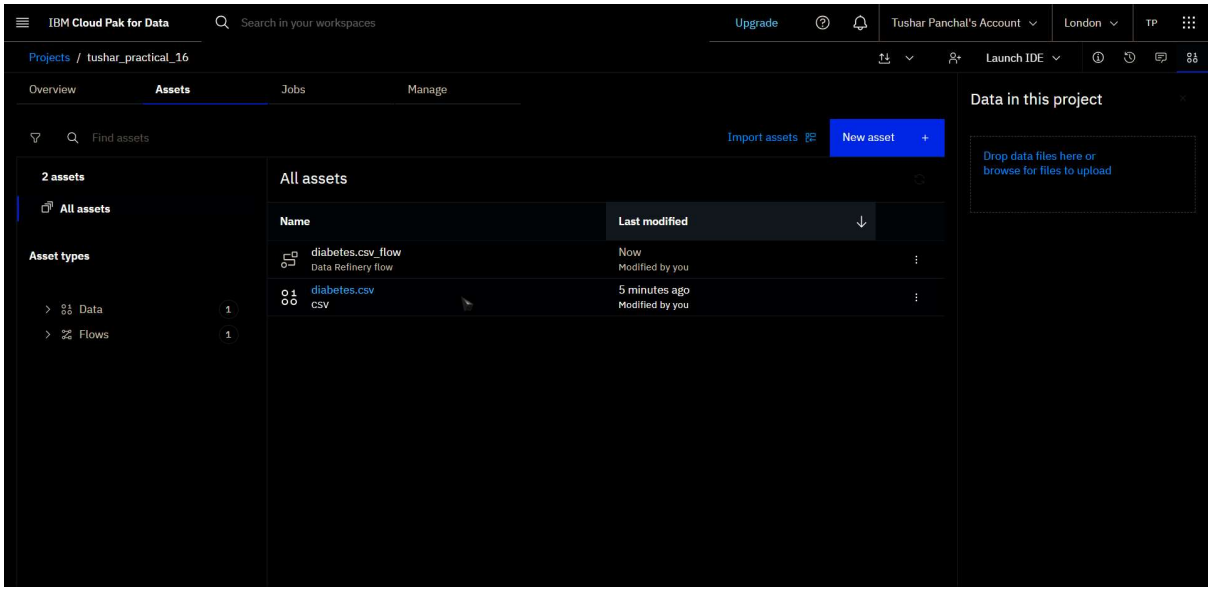
As we can see outcome in boolean value in true and false



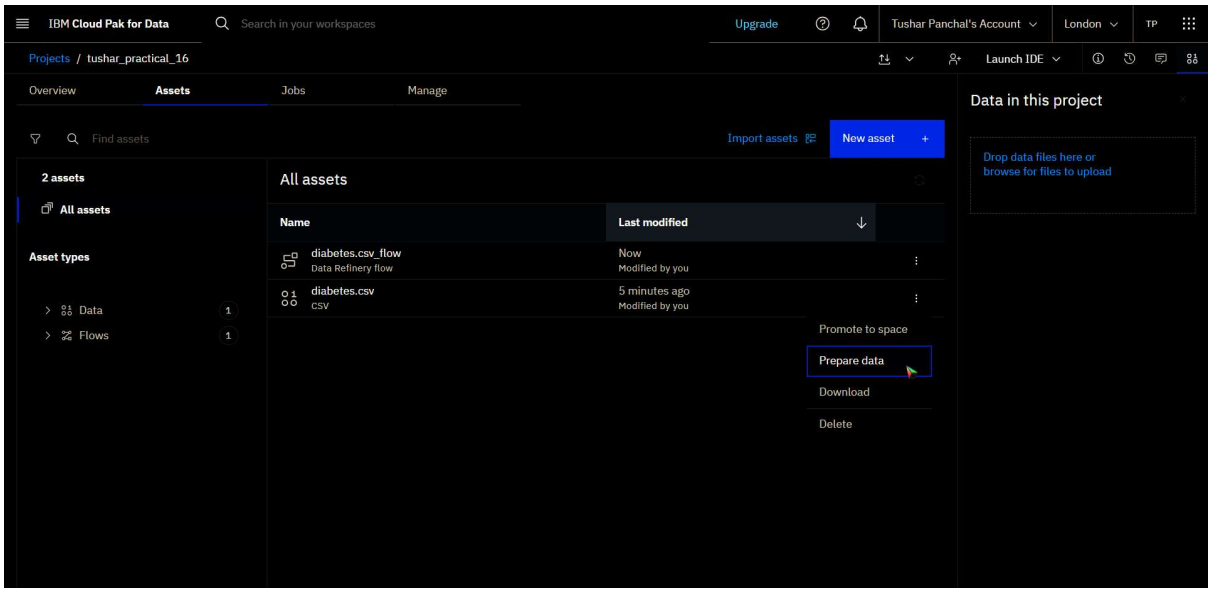
Now click on save data refinery flow to save the changes



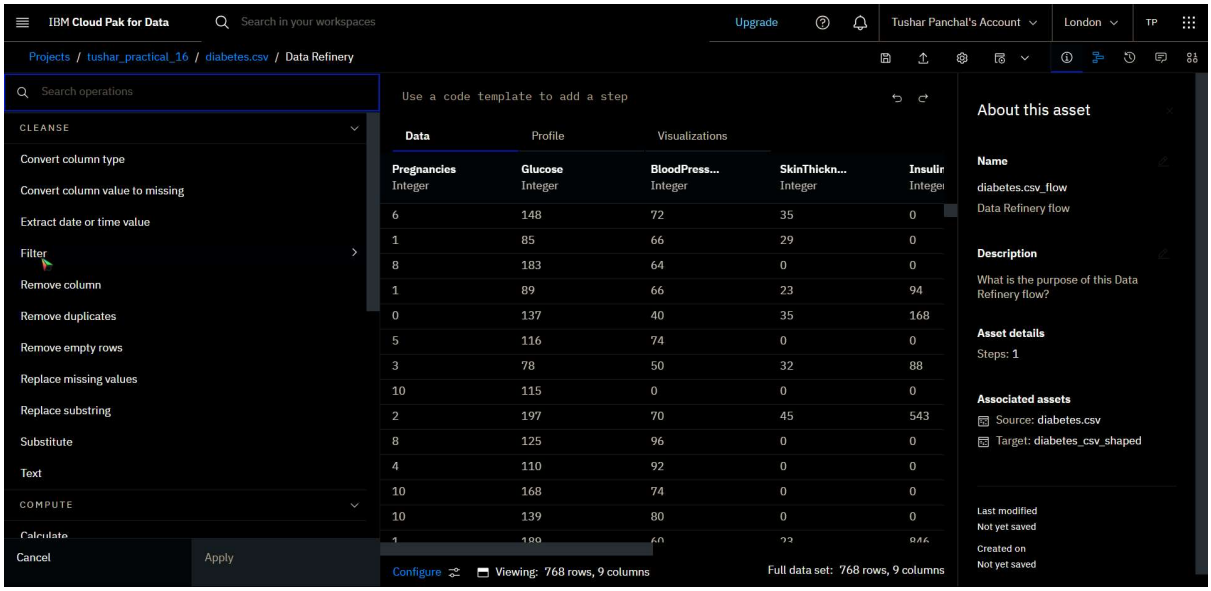
New asset is created by changing and saving the diabetes.csv



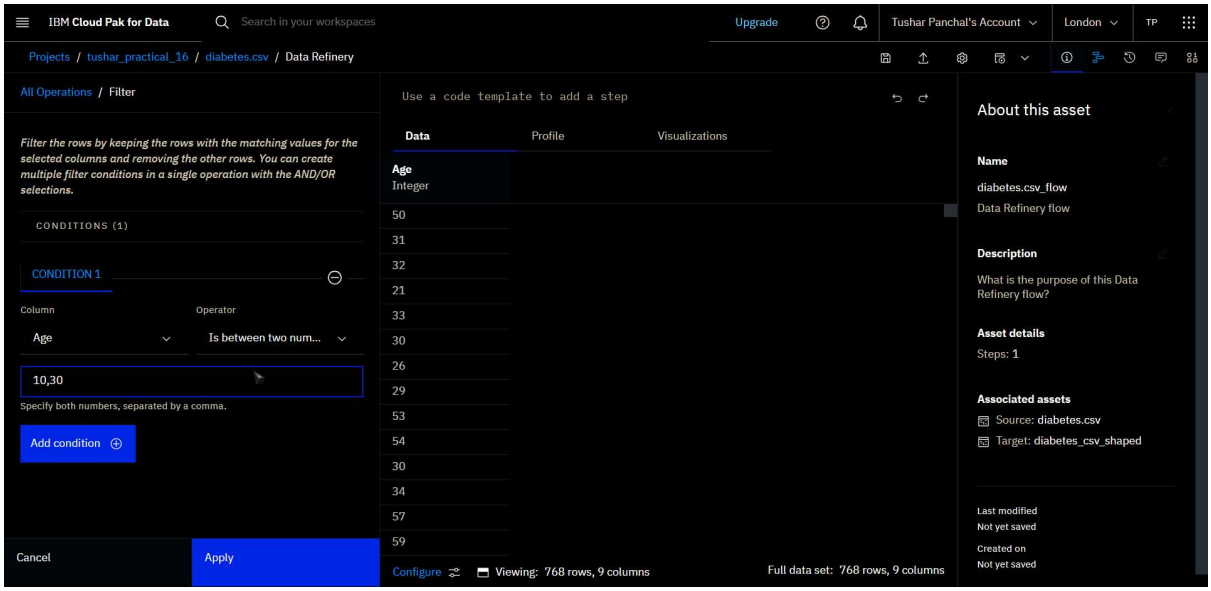
Now go on prepare data again



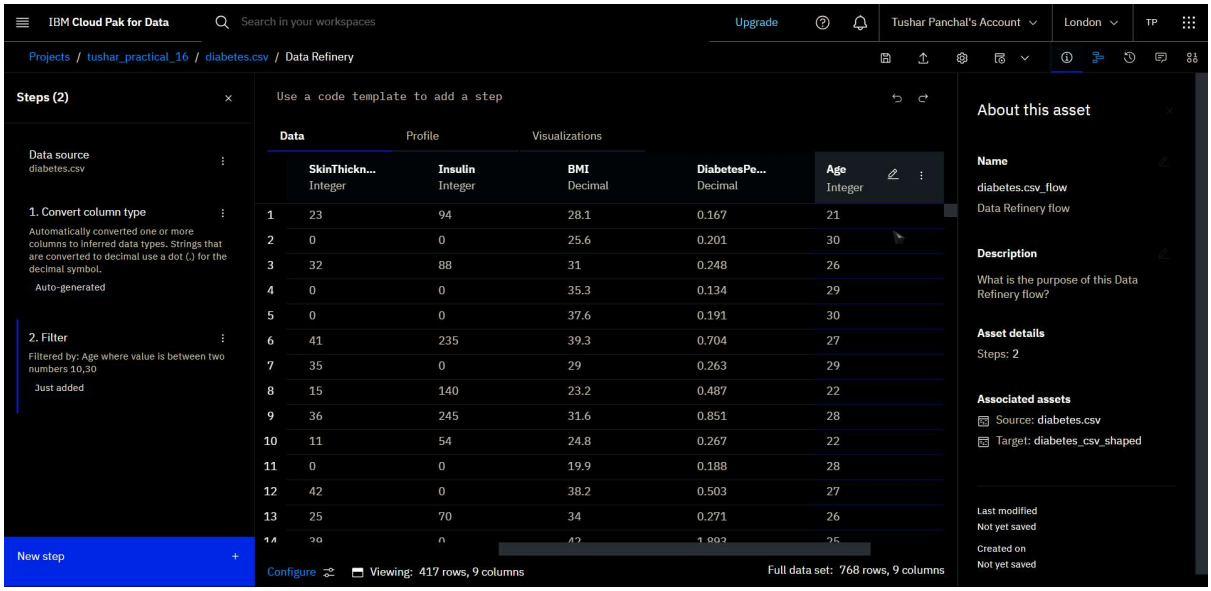
Click on filter data



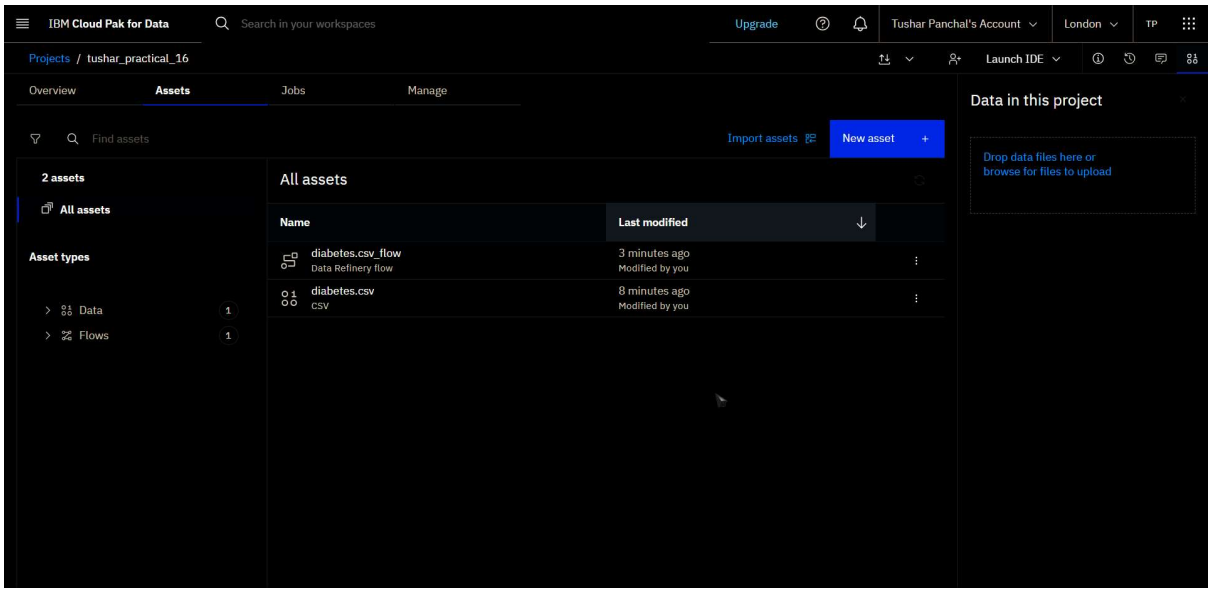
Now set column Age and operator “Is between two number” and Add 10,30 age and click on apply



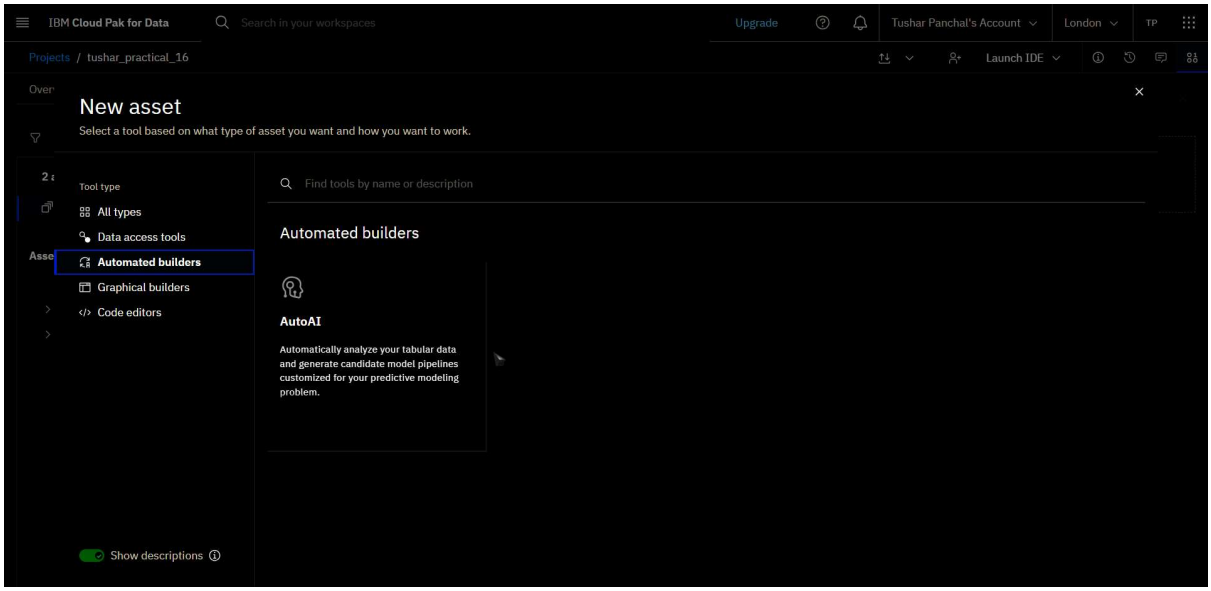
As we can see in below screen all in between 20,30 age is display in below screenshot



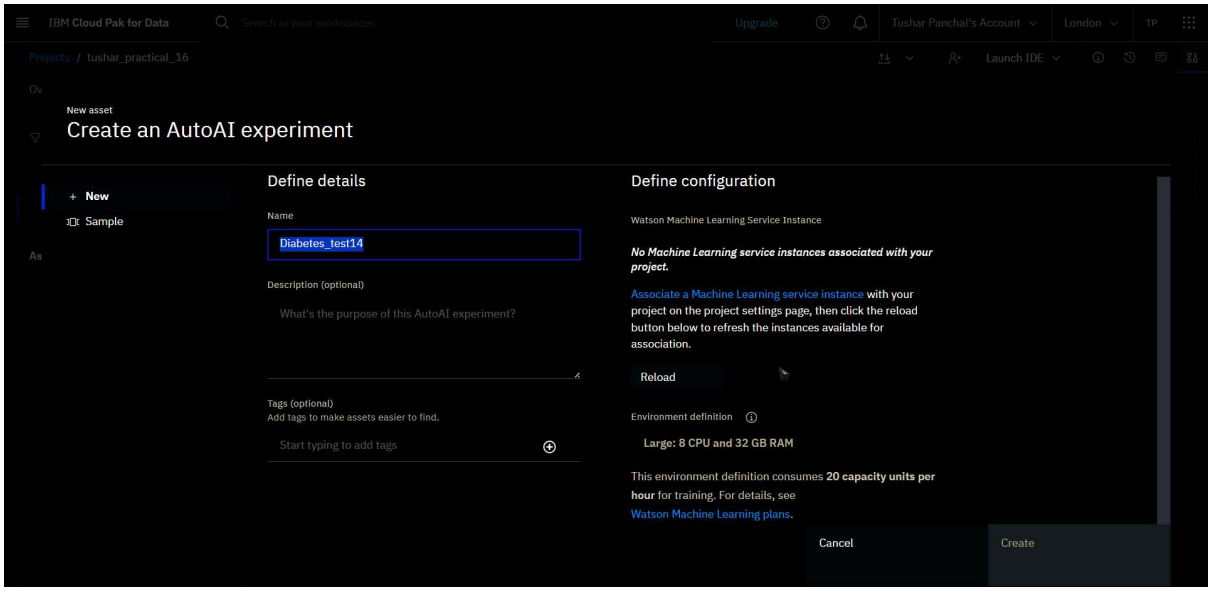
Now go back on asset and click on “new asset”



After opening new asset select automated builders and open AutoAI

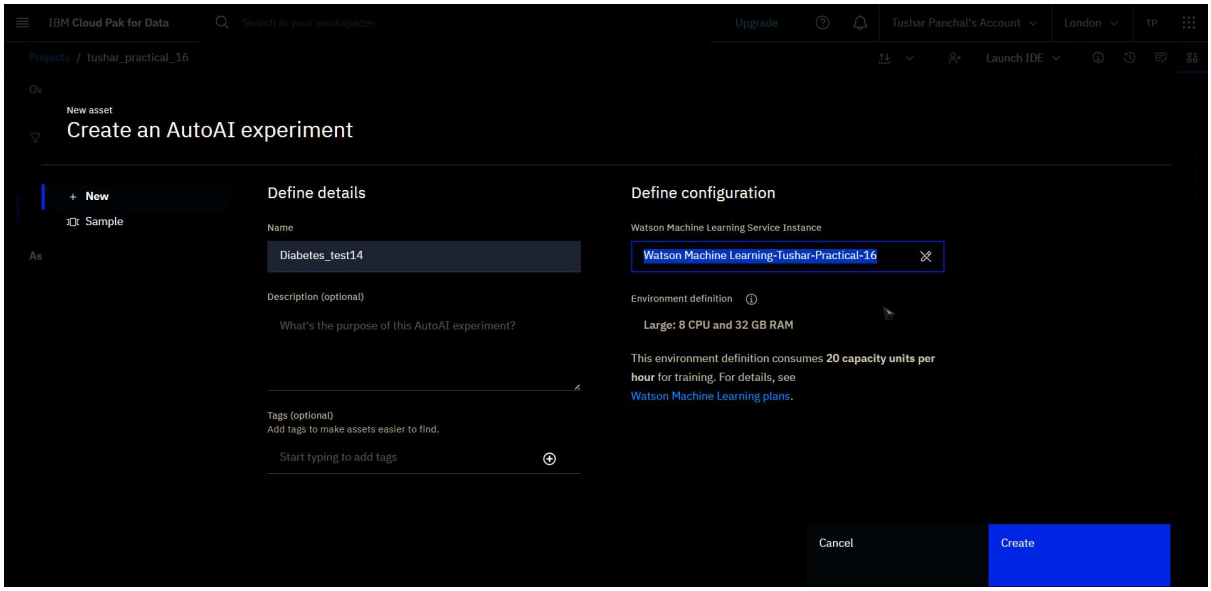


Now give a name and click on “Associate a machine learning service instance”

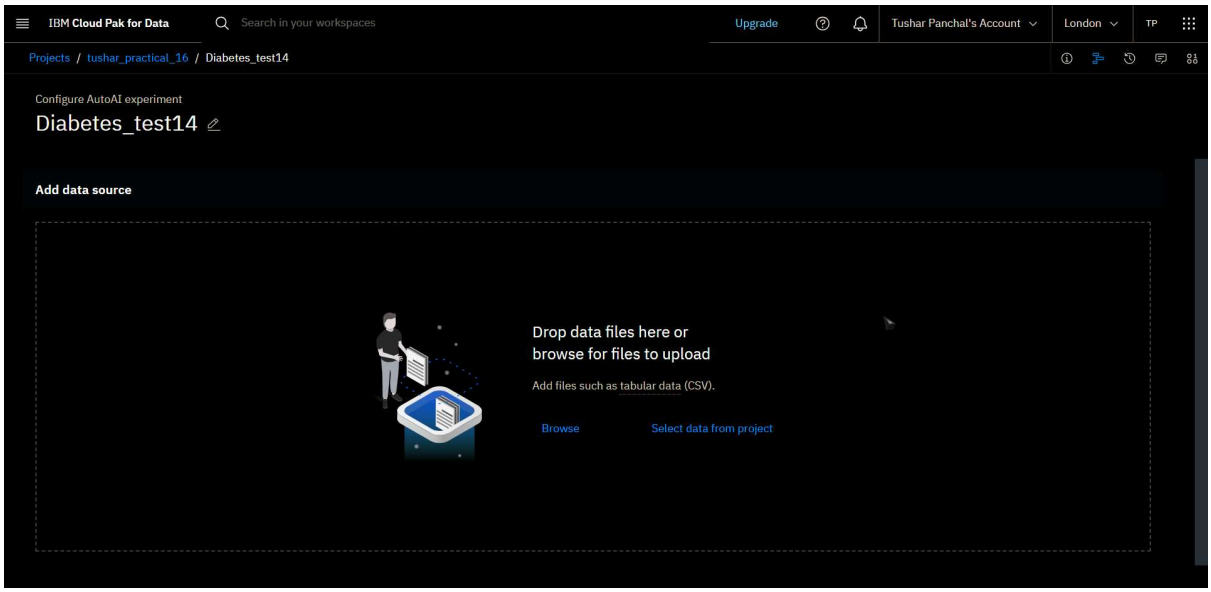


Now select the check box then click Associate

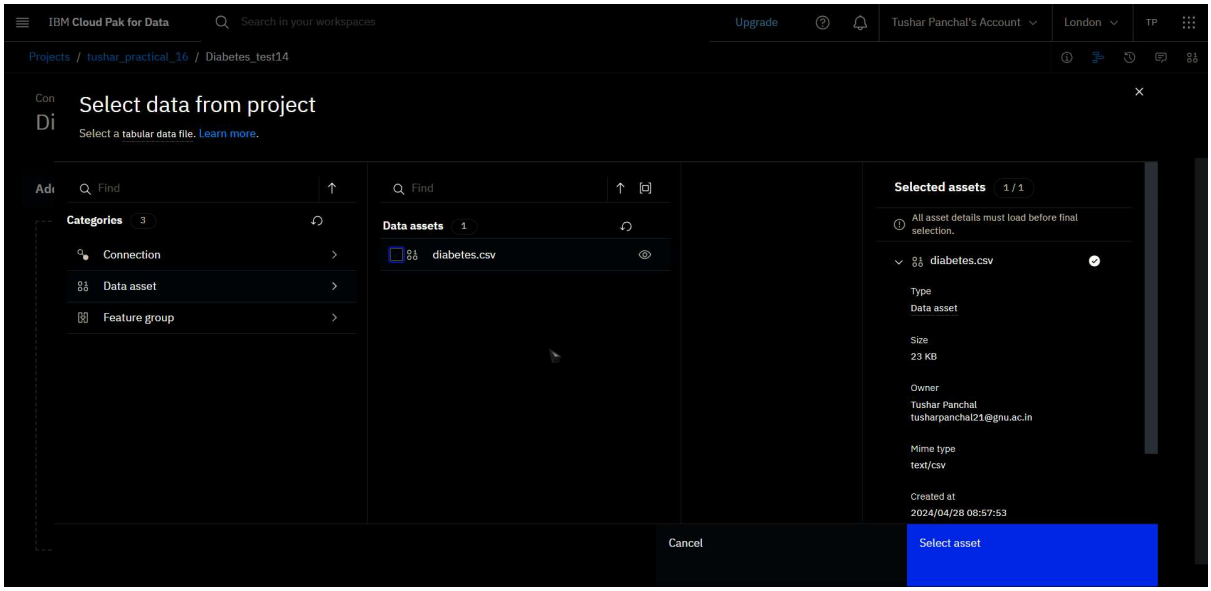
As we can see in below screenshot that configuration is defined than click on create



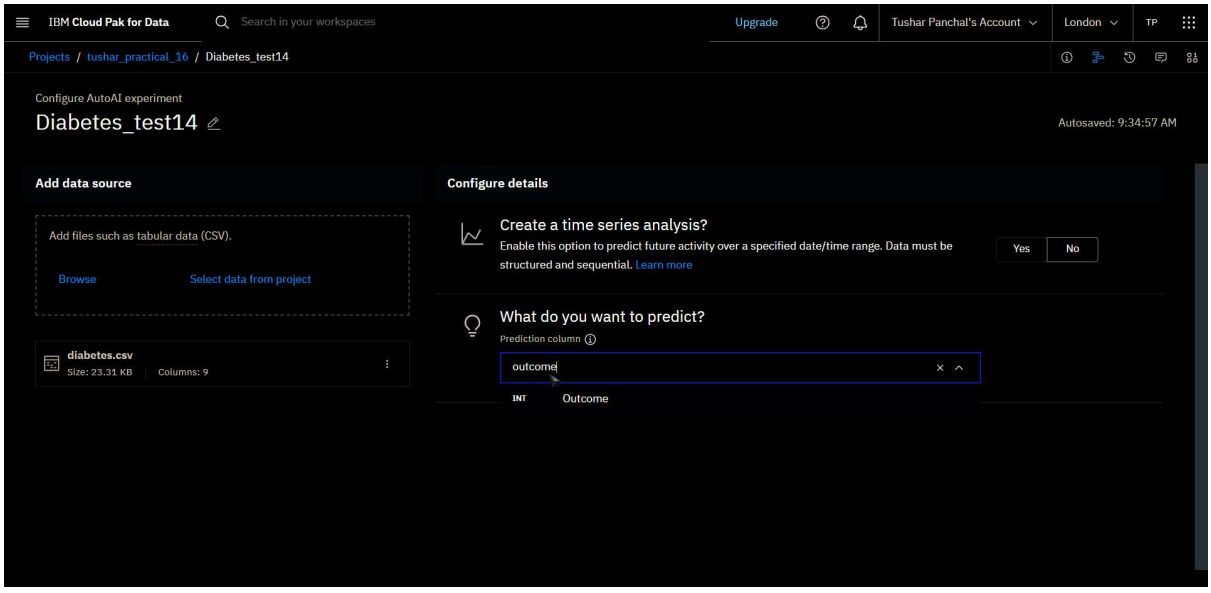
AutoAI is configured Now click on “select data from project”



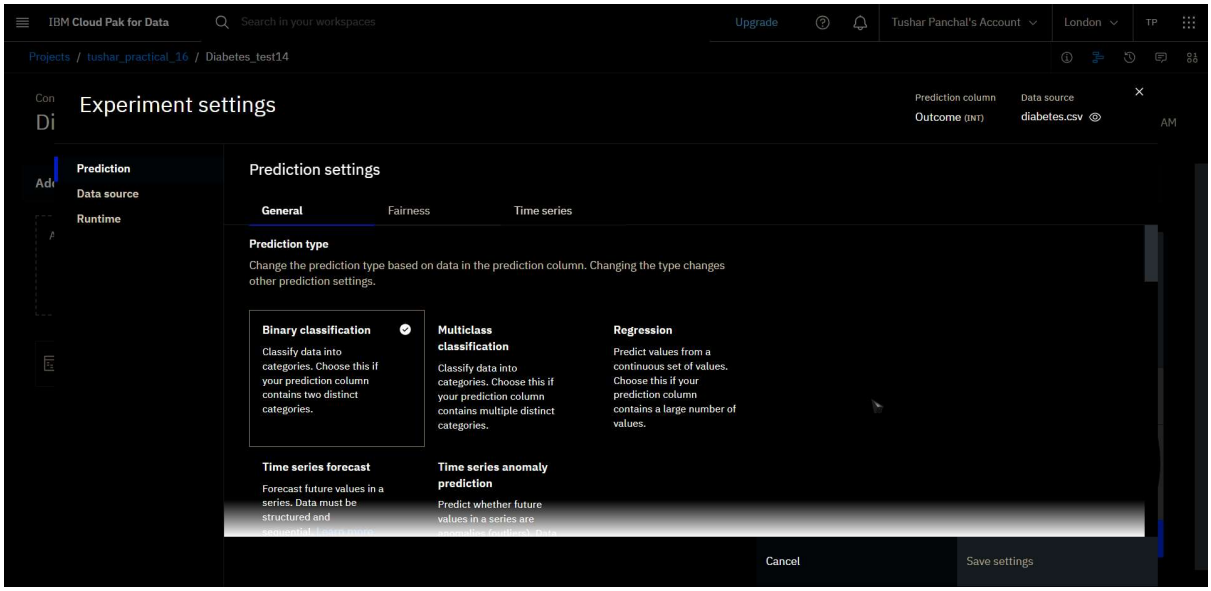
After opening that click on data asset and select diabetes.csv file then select asset



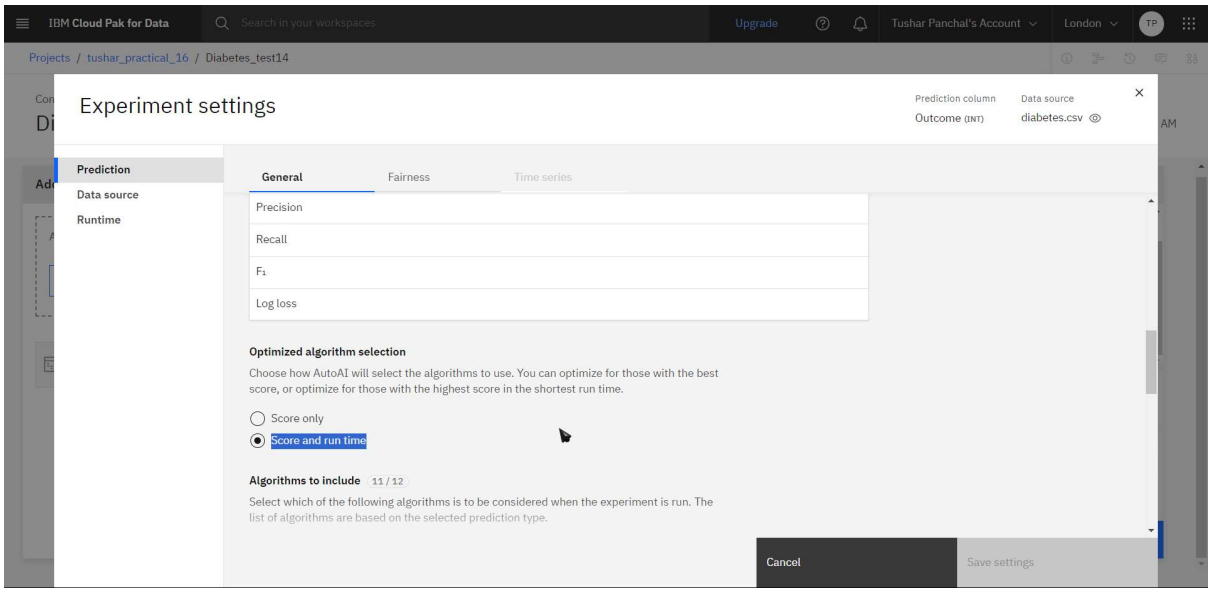
Now select No and select “outcome” for what do we cant to predict



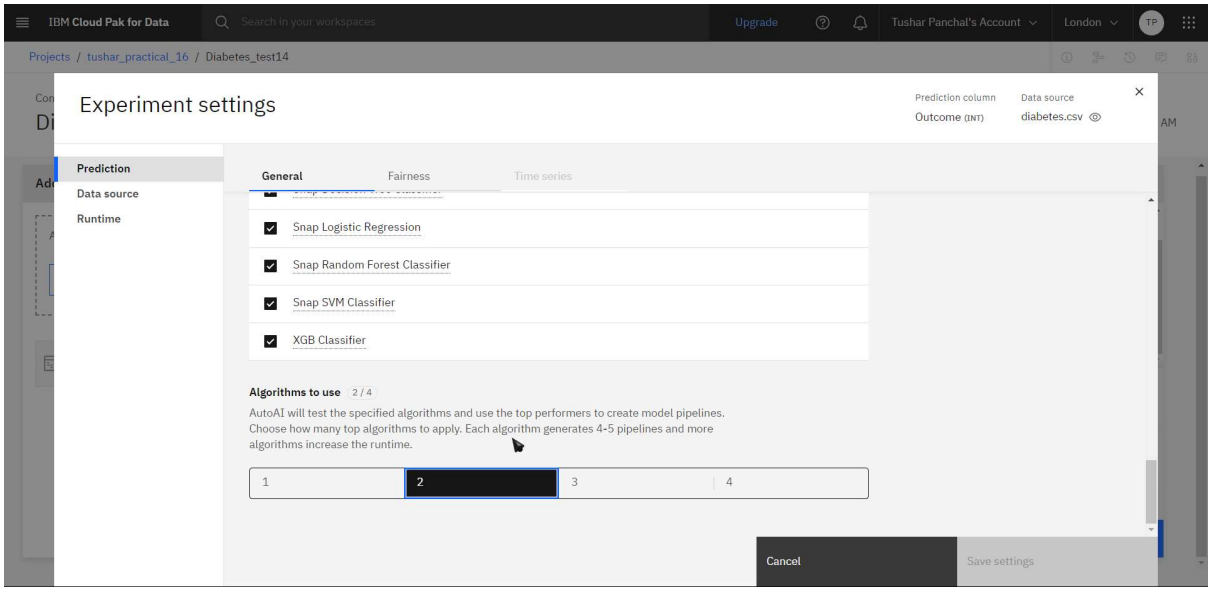
Now open the Experiment settings



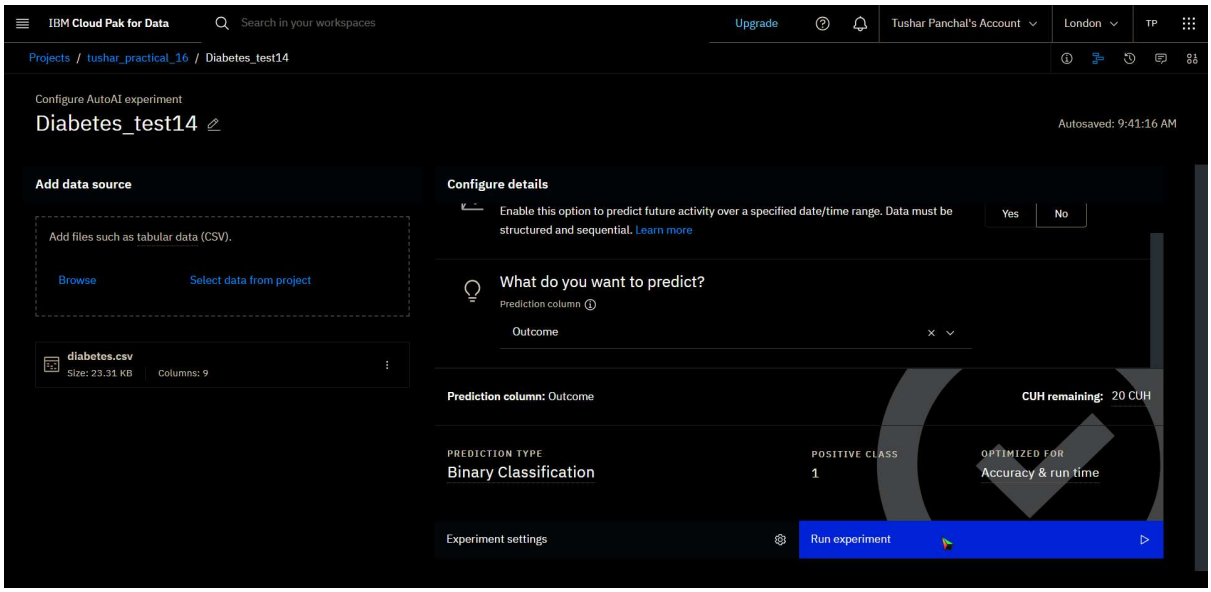
Select the Score and run time



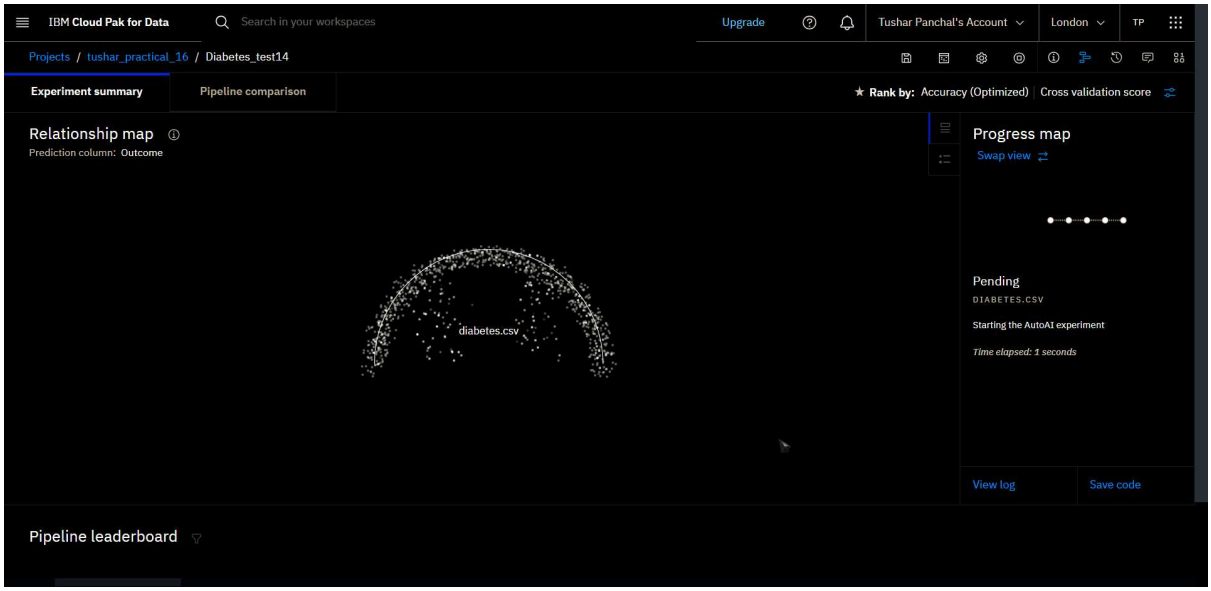
Set 2 that algorithms to use



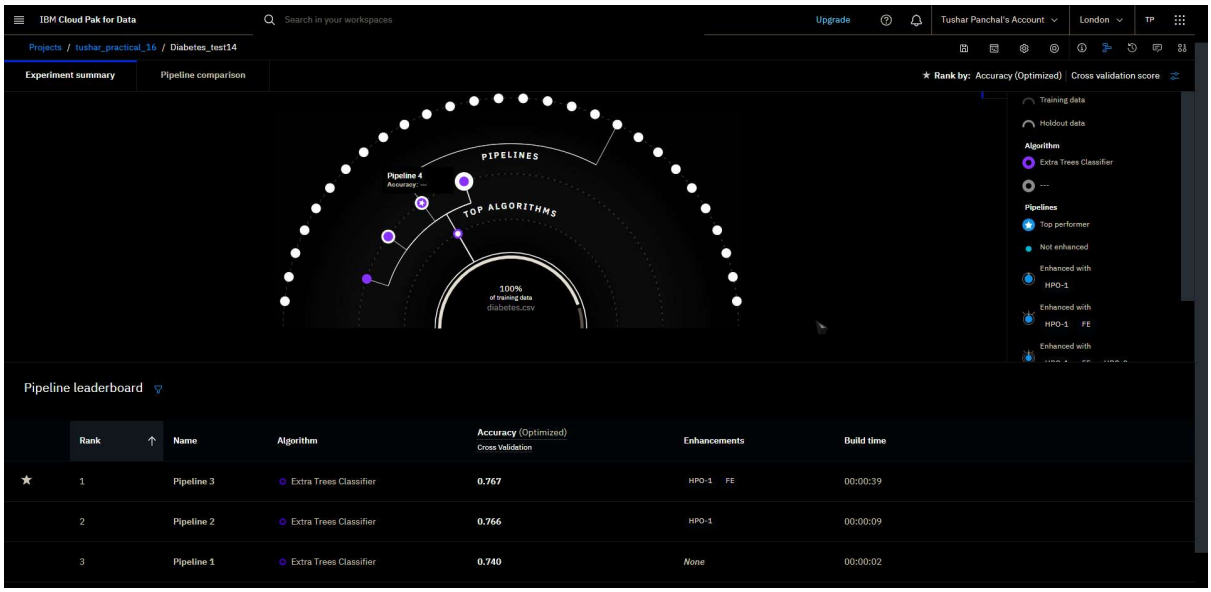
Now go back click on “Run experiment”



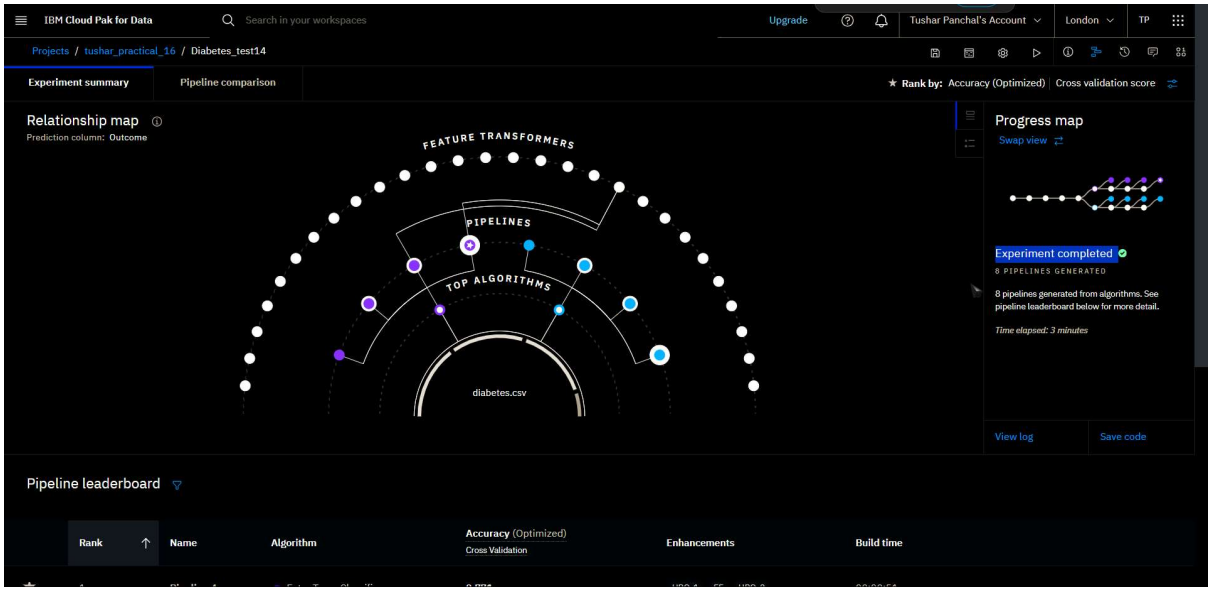
We can see this interface after “run experiment”



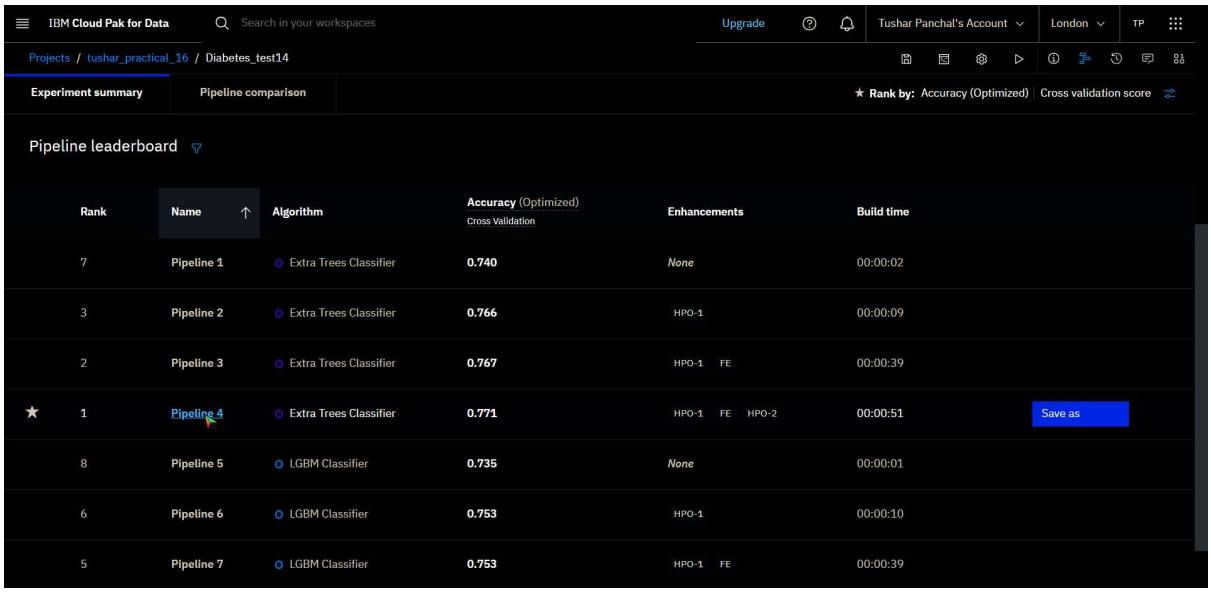
reading data from .csv file



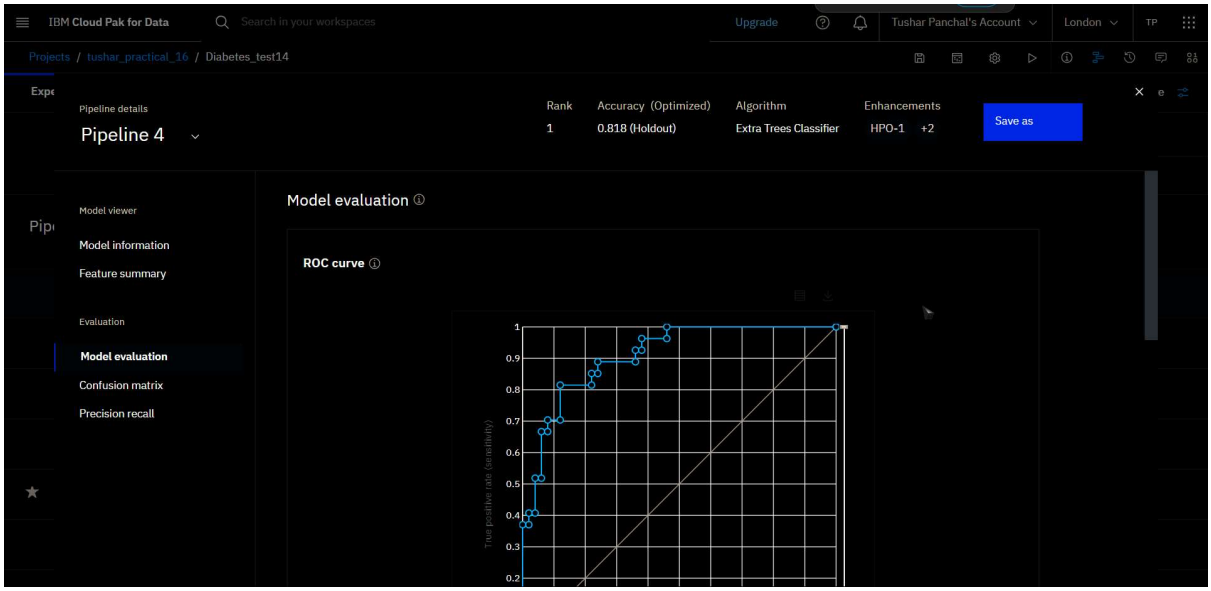
We can see in below screenshot the experiment is completed



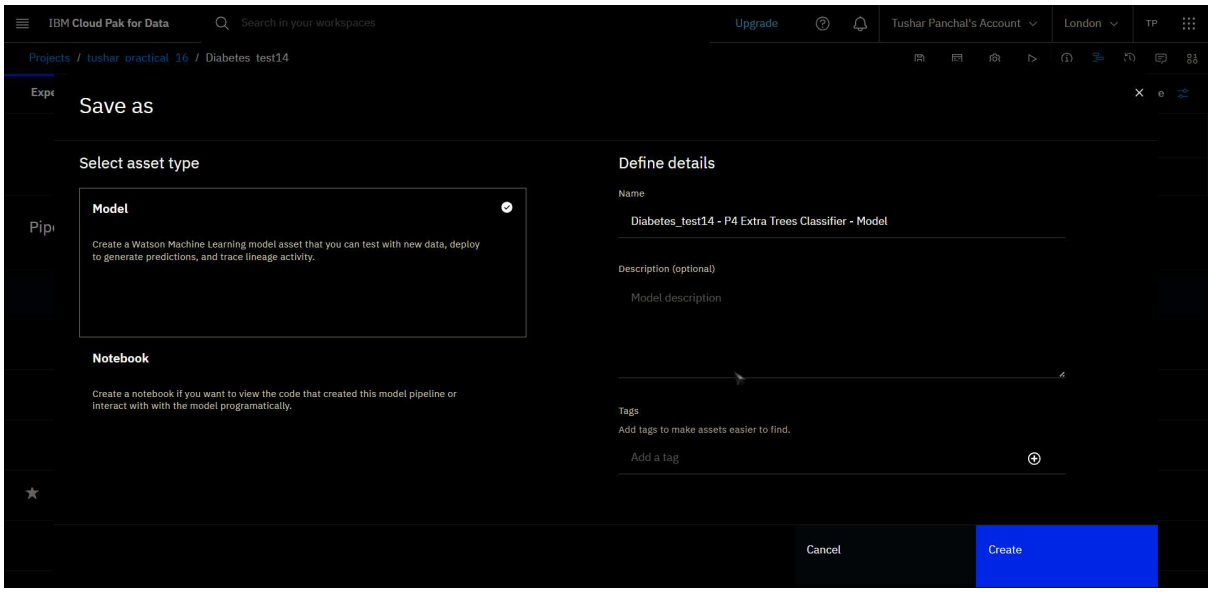
Now scroll down and select pipeline 4



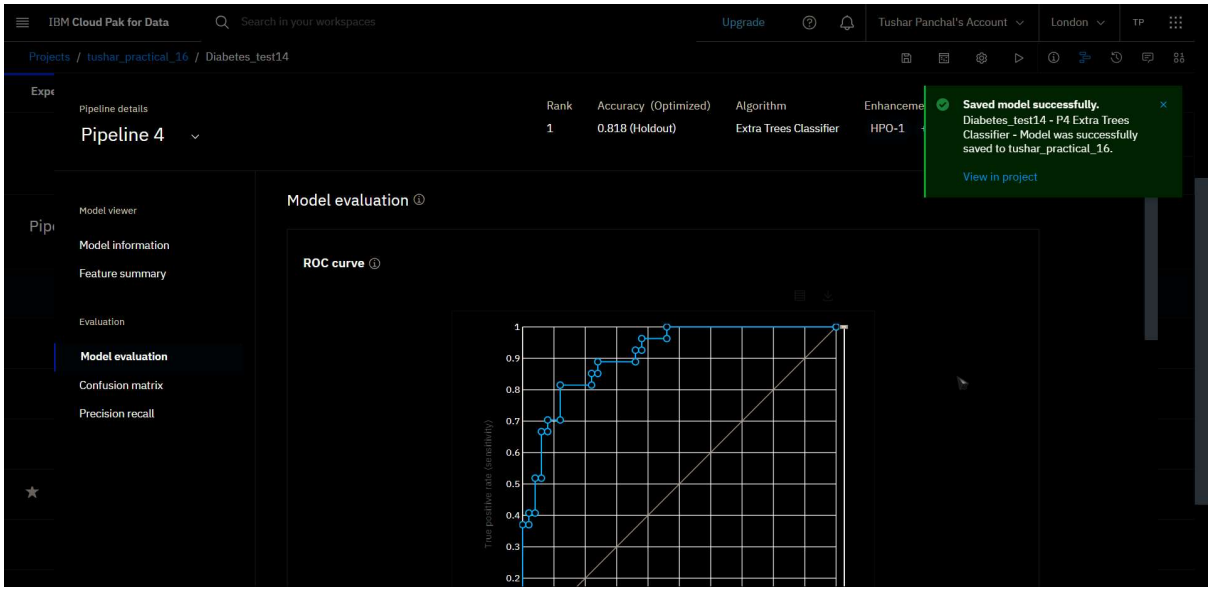
Go in to save as

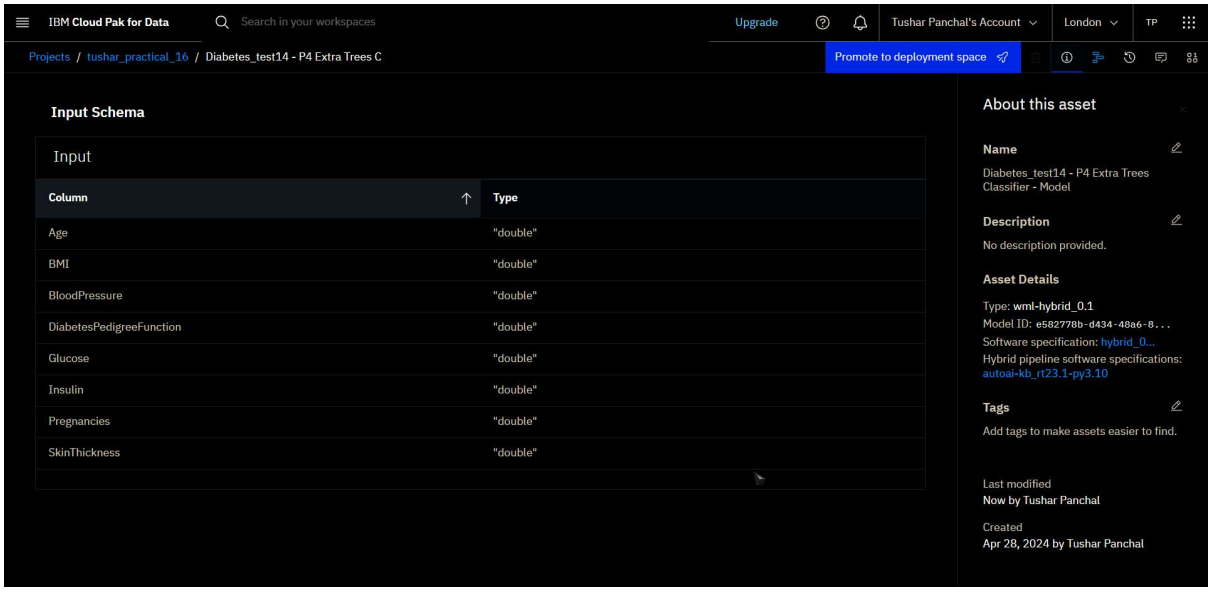


After that select model and add Defined detail Click on create

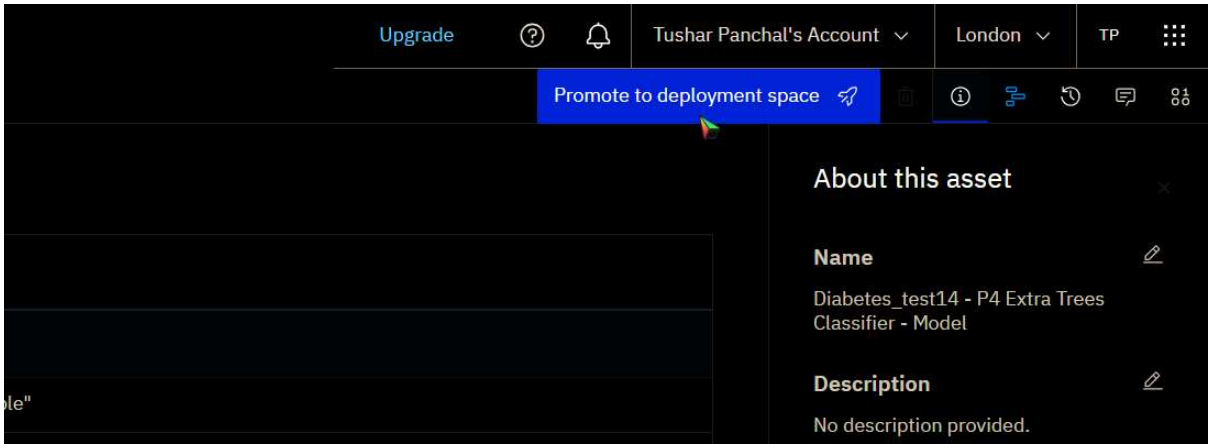


Click on view in project

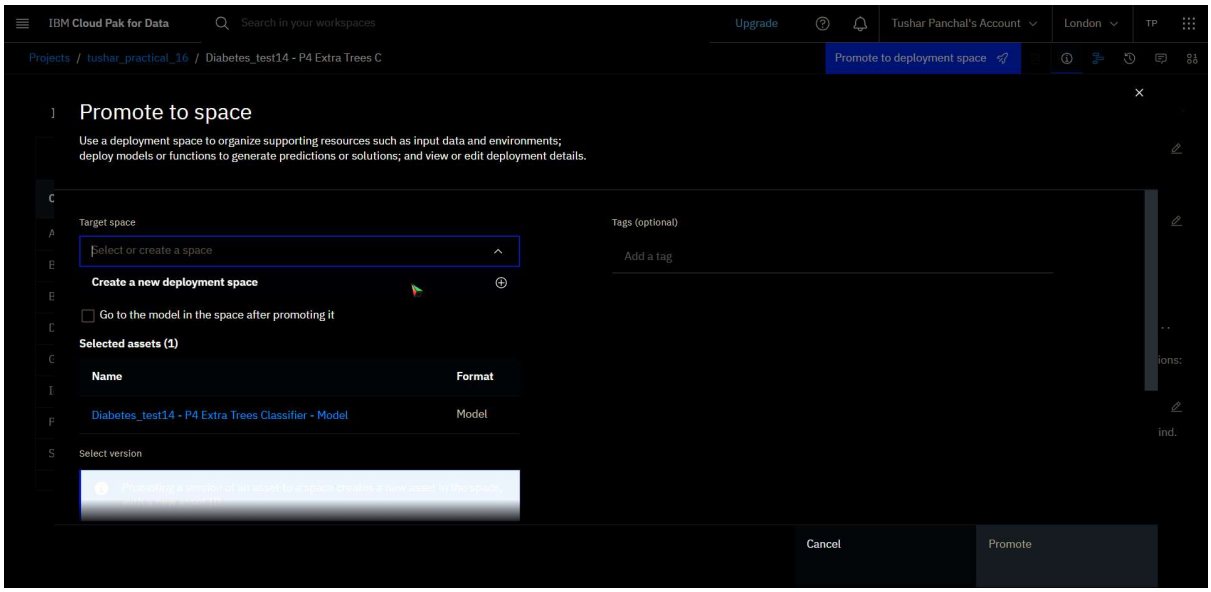




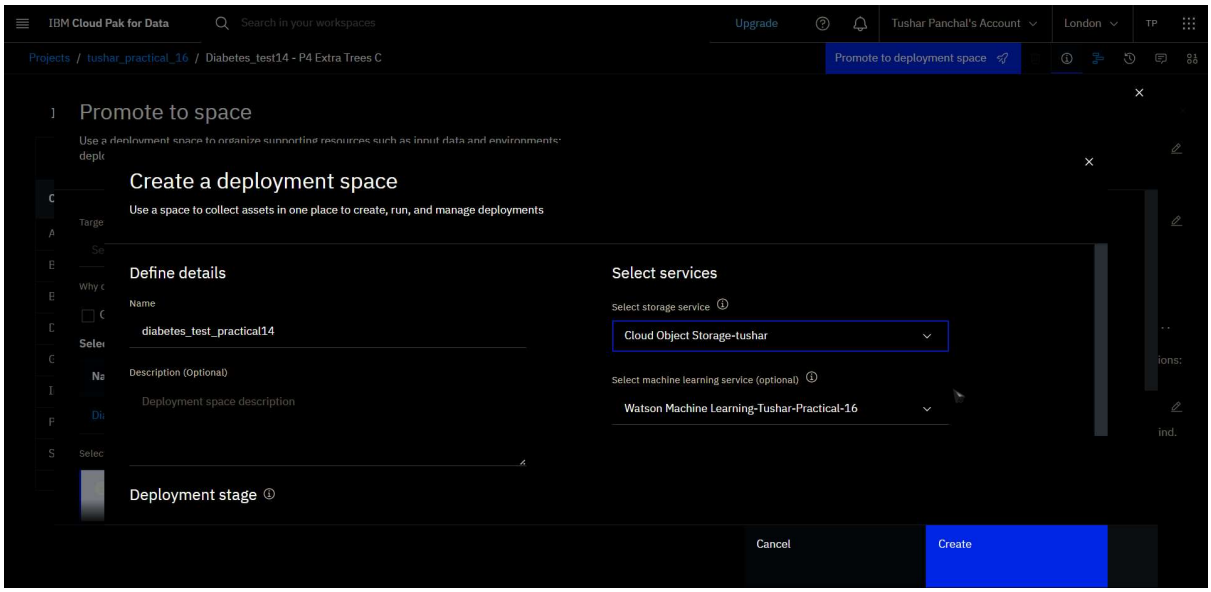
Click on promote to deployment space

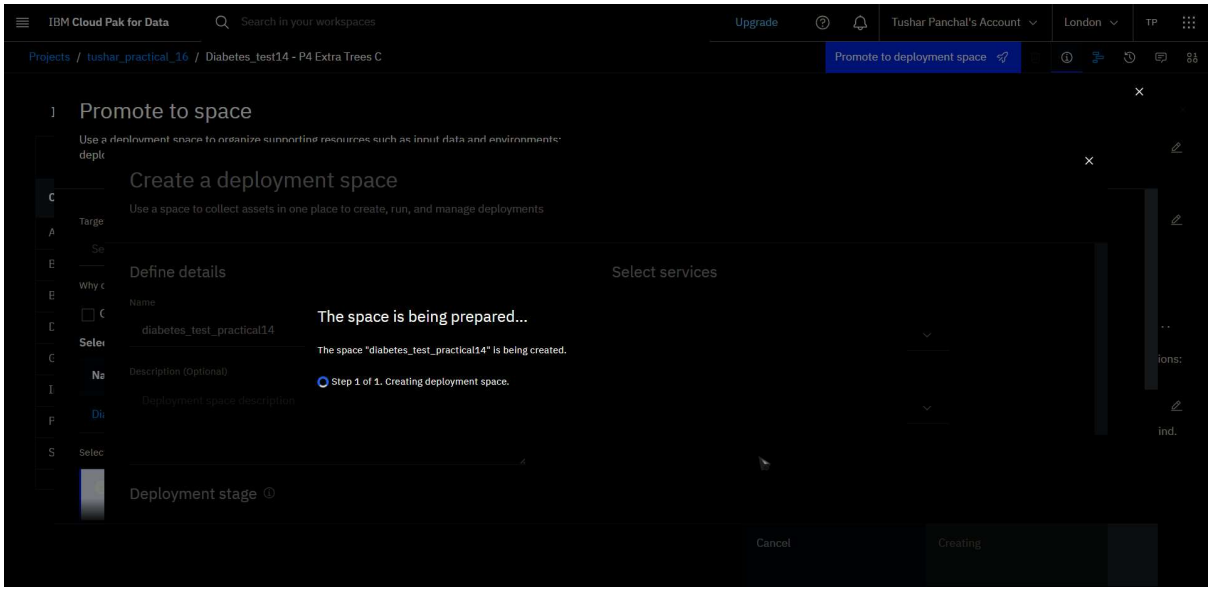


Click on target space and create a new deployment space

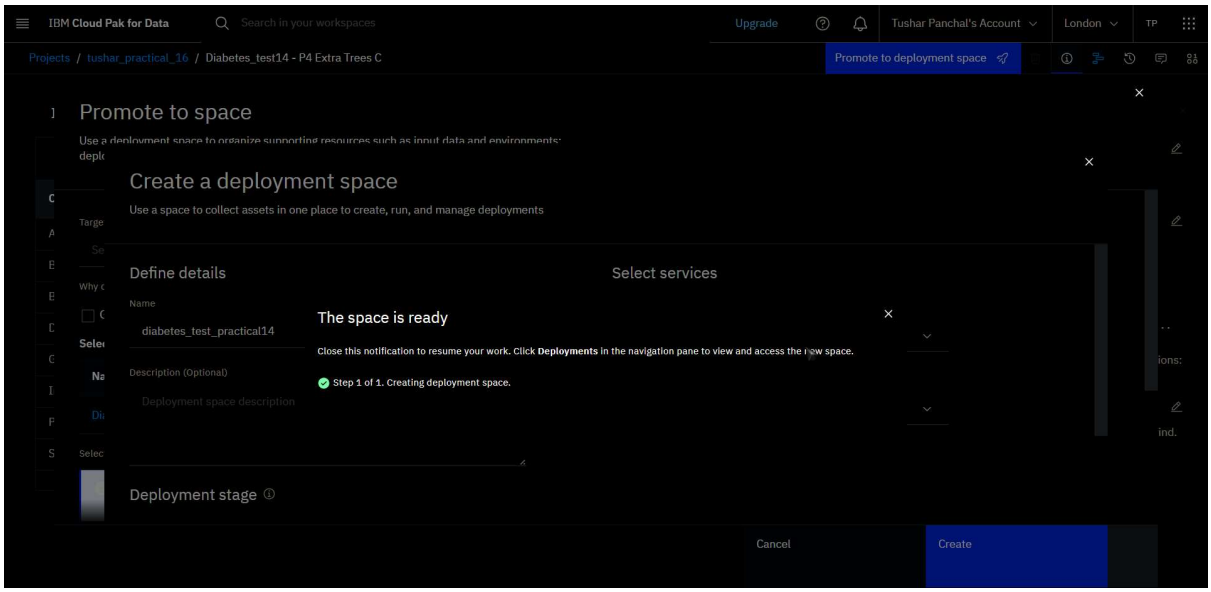


Give “name”, “select machine learning service” Click create

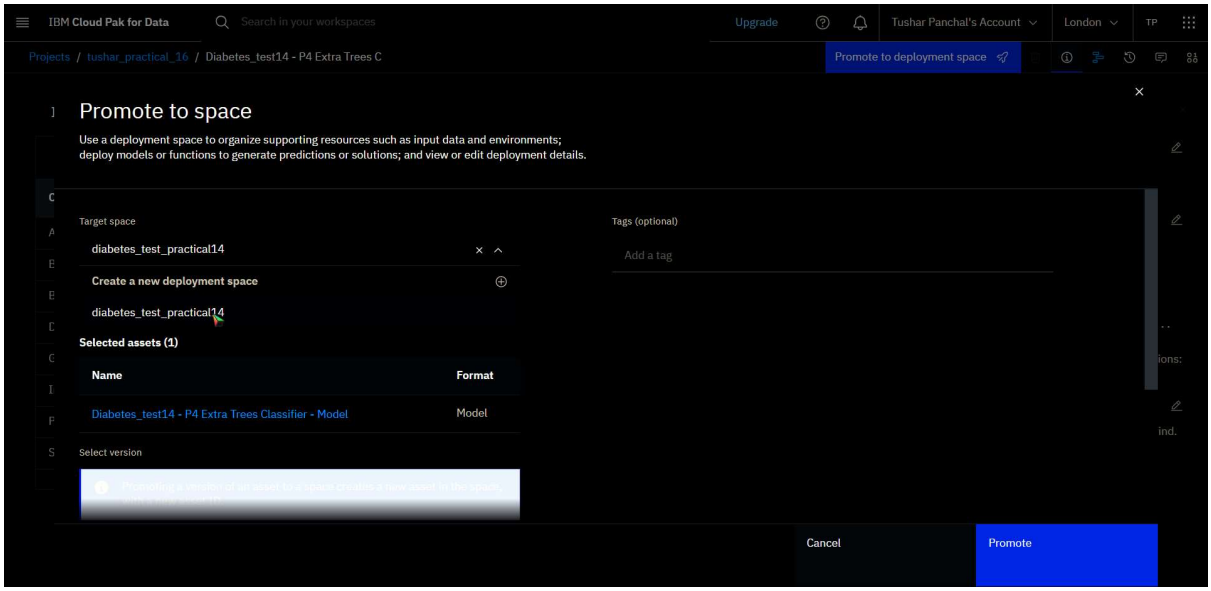




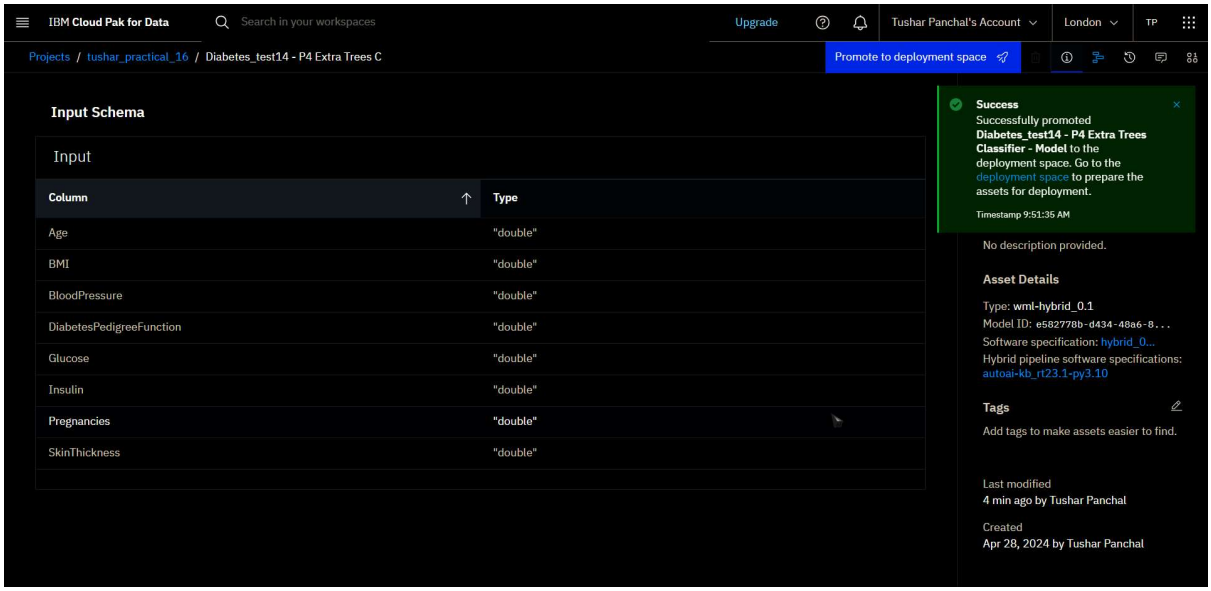
Space is ready



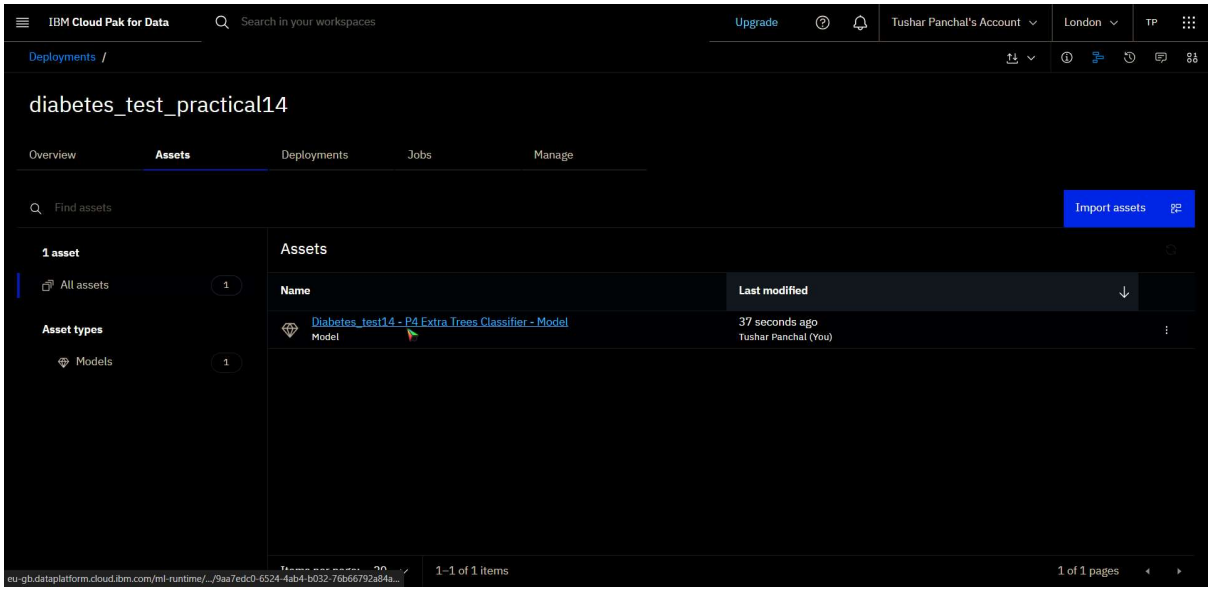
Select the space we create and Now click on on promote



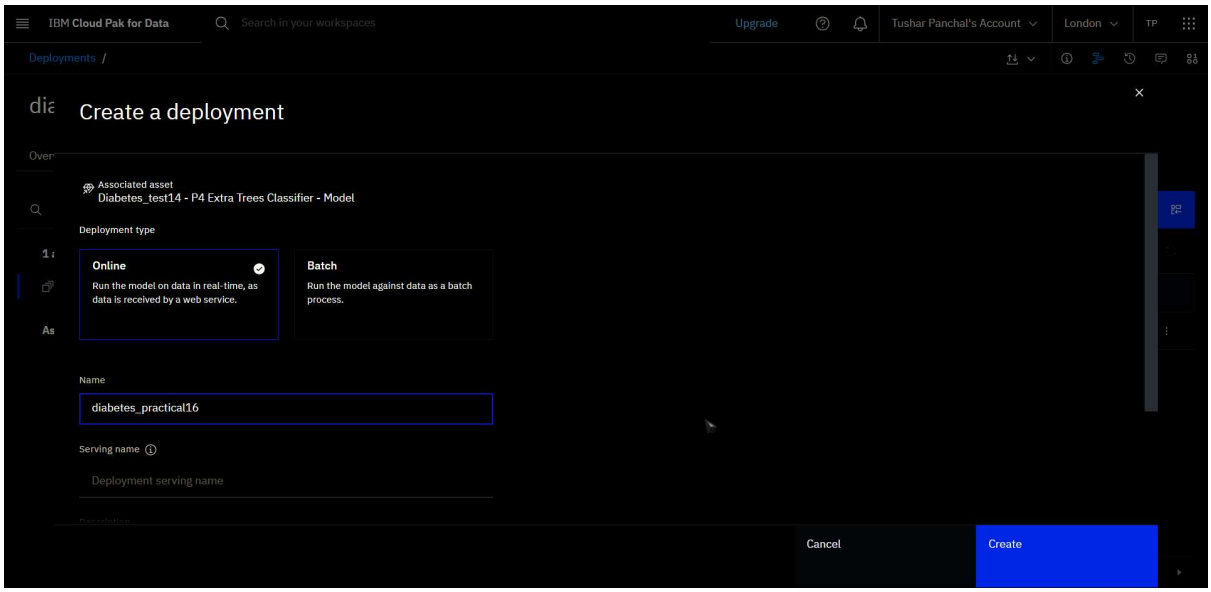
Its showing successfully promoted and and click on deployment space



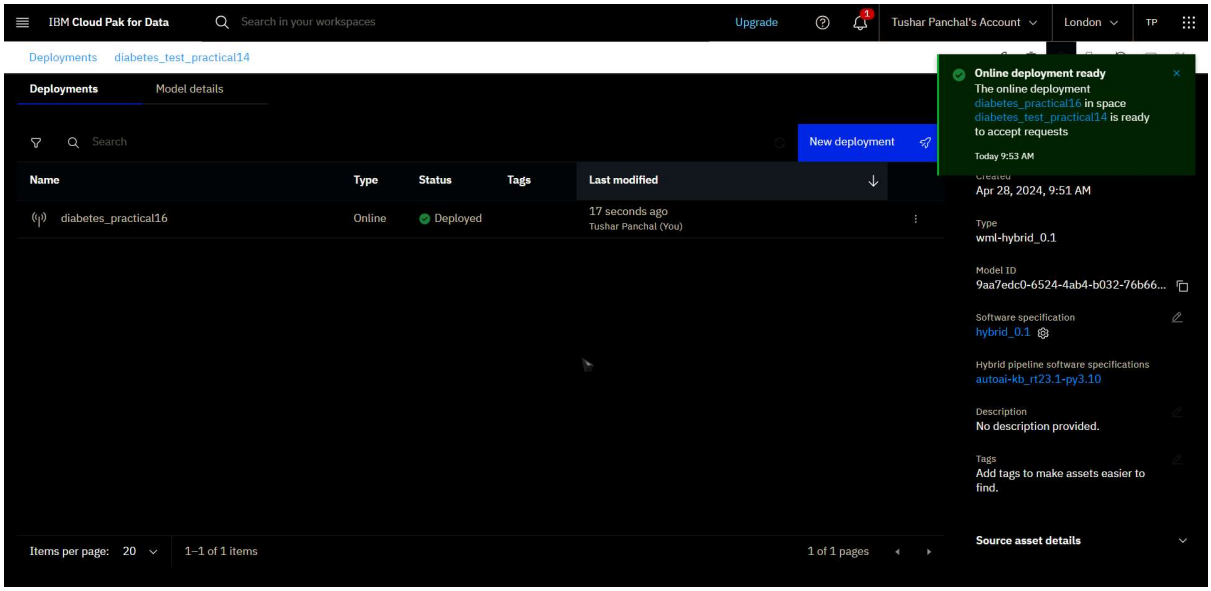
Now we can see the asset click on three dots and deploy



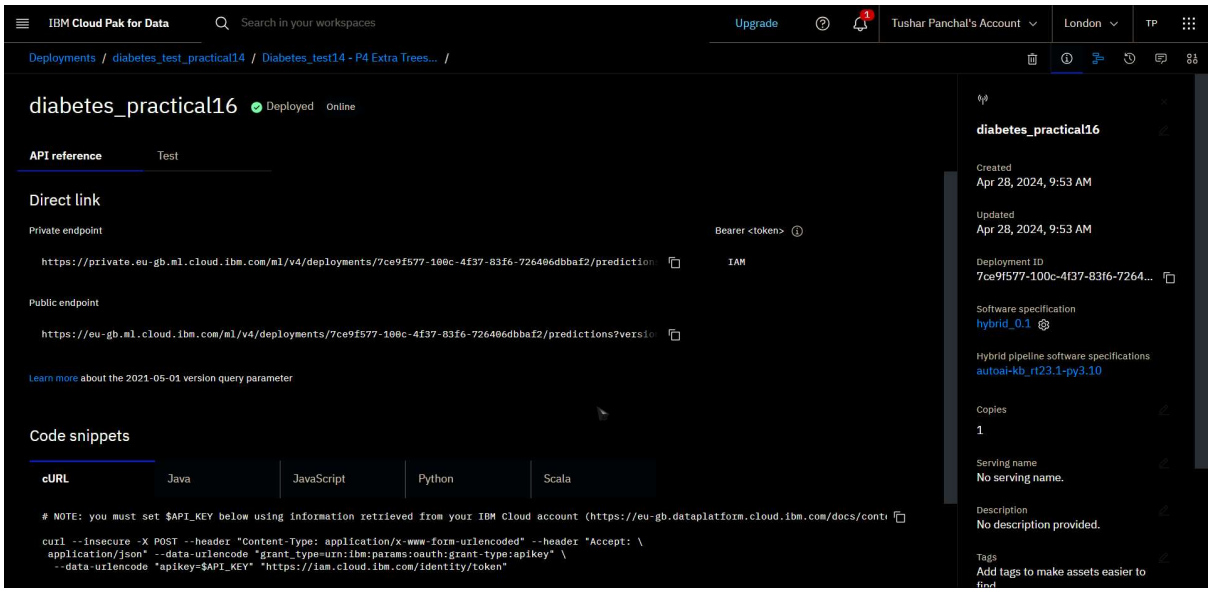
Give deployment name and click on create



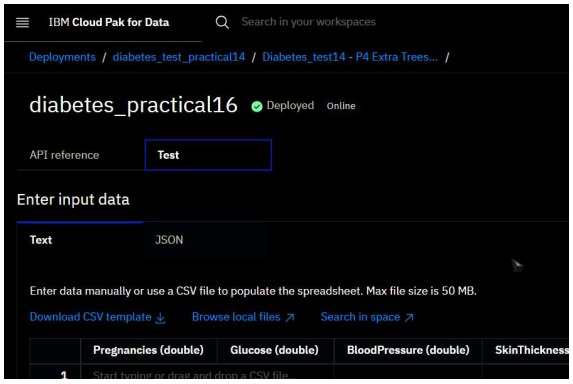
Click deployment that we created “diabetes”



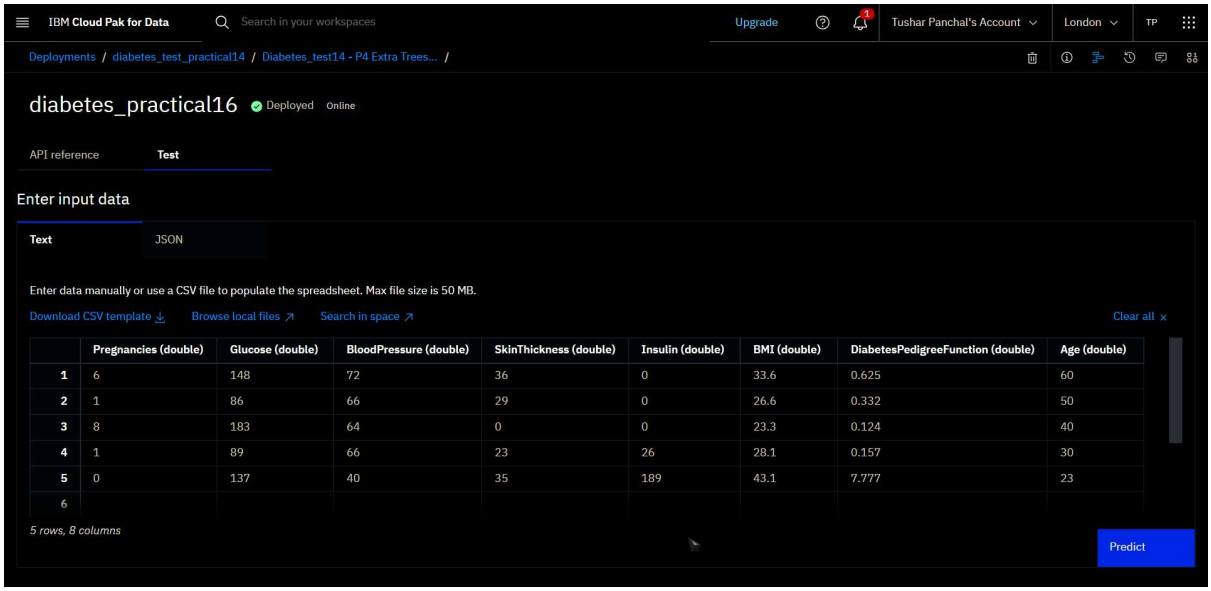
As we can see its deployed



Click on test



I Added data for 5 row than click on predict



As we can see in below screenshot its showing prediction result that i give in input as row