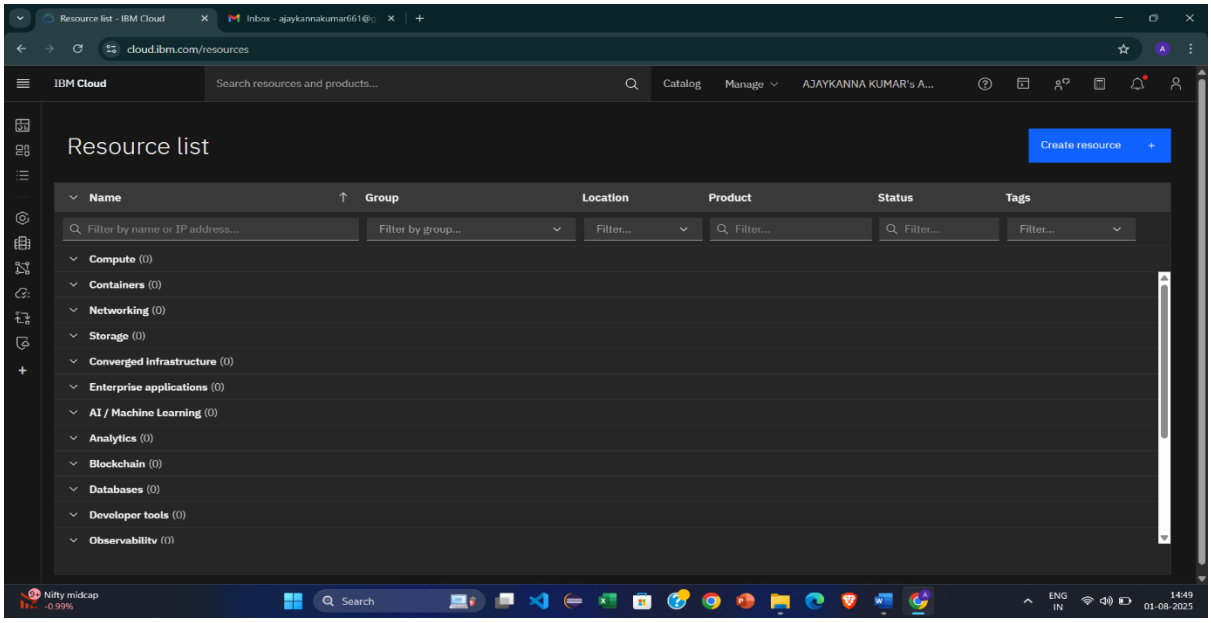
PS-39 Predictive Maintenance of Industrial Machinery

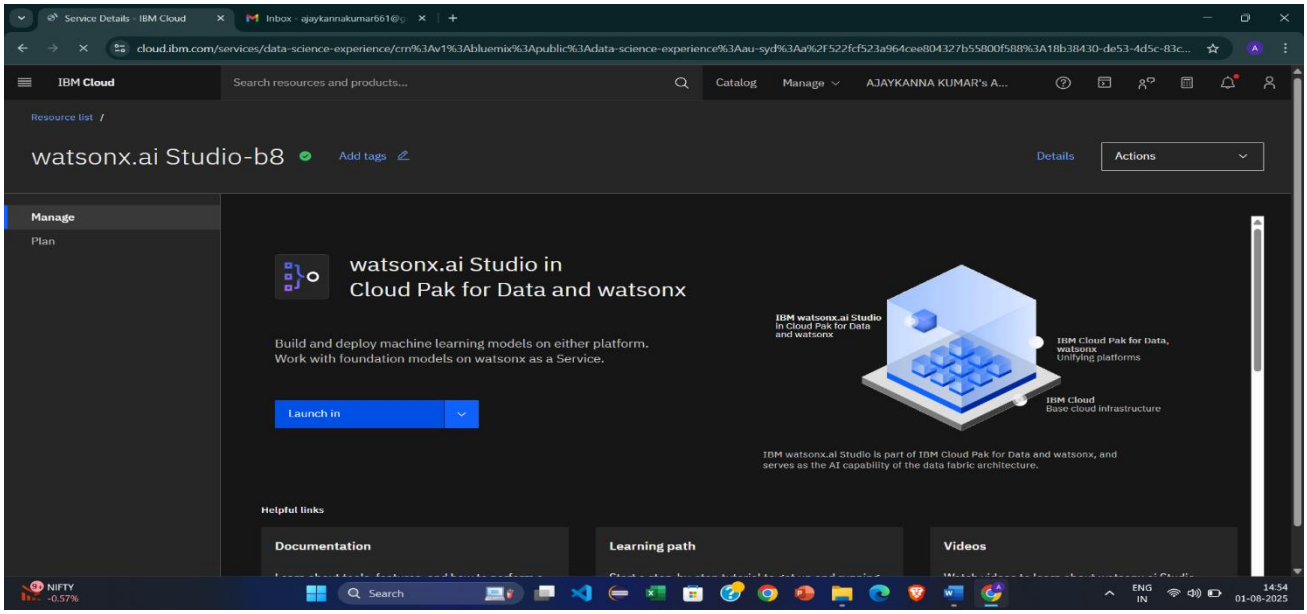
Step 1: Login to IBM Cloud by using Credentials

Step 2: Visit the Resource List and Clean the Resource List.

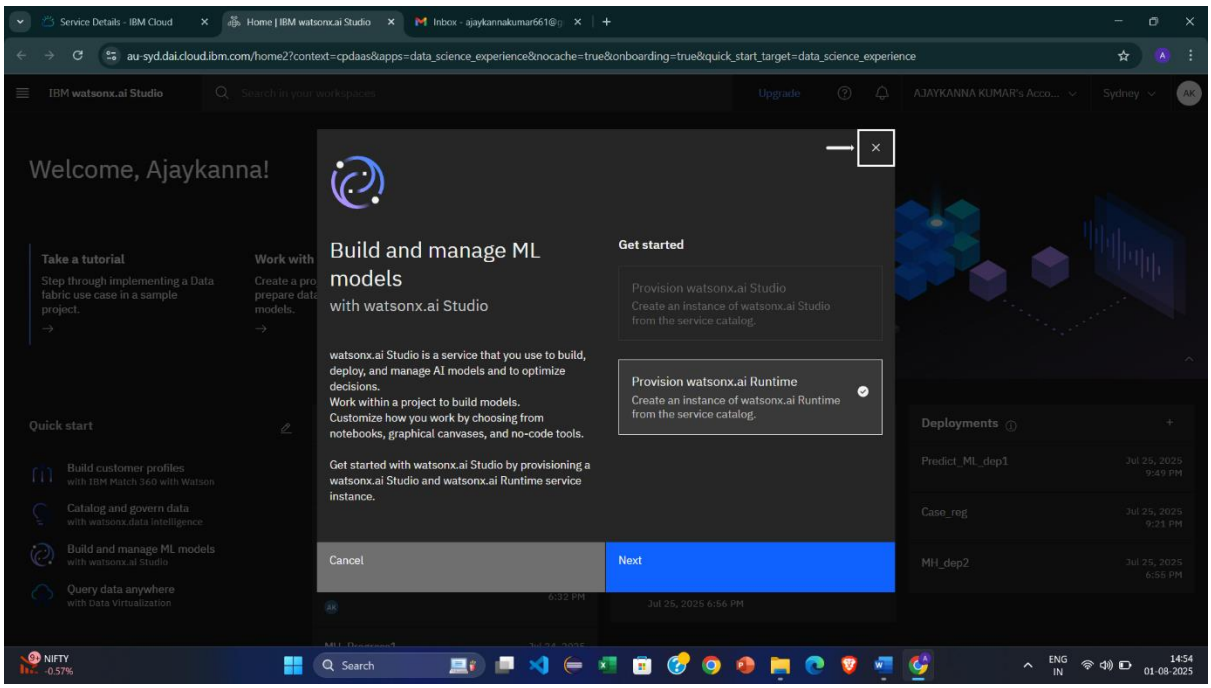
[**Note:** We are Using Lite Version, So, We have able to create a one Instance only].



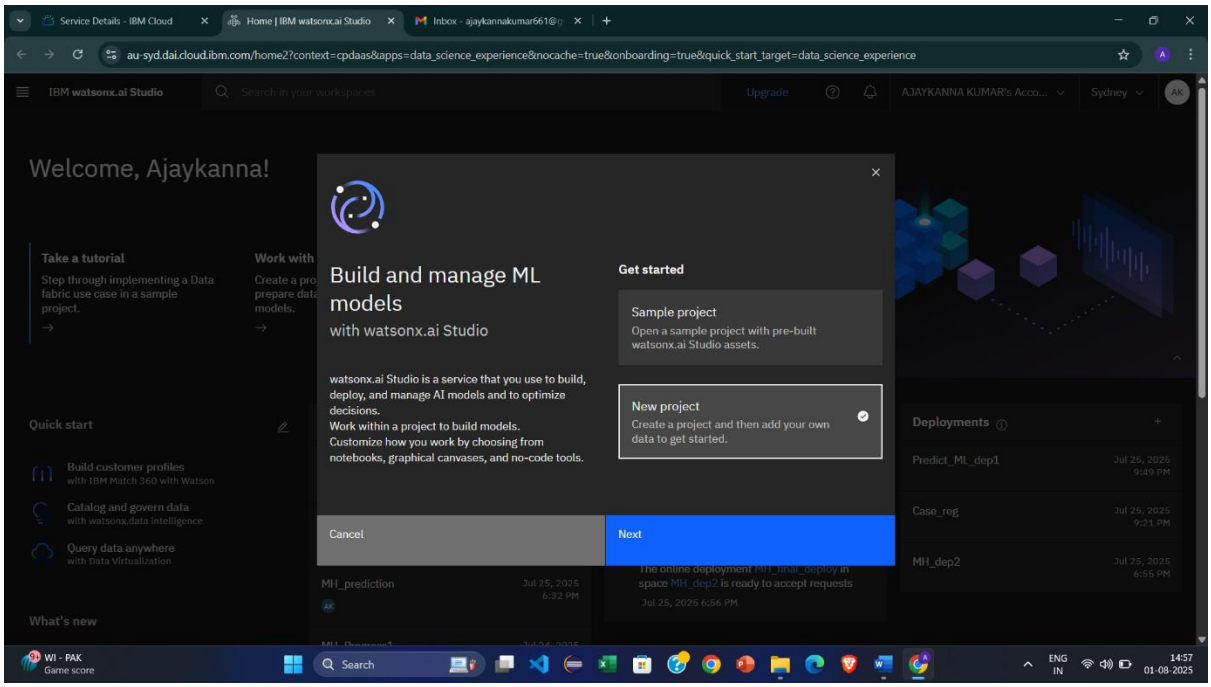
Step 3: Go to the "**Wastonx.ai Studio Service"** in IBM Cloud and Select the service and create an One Instance.



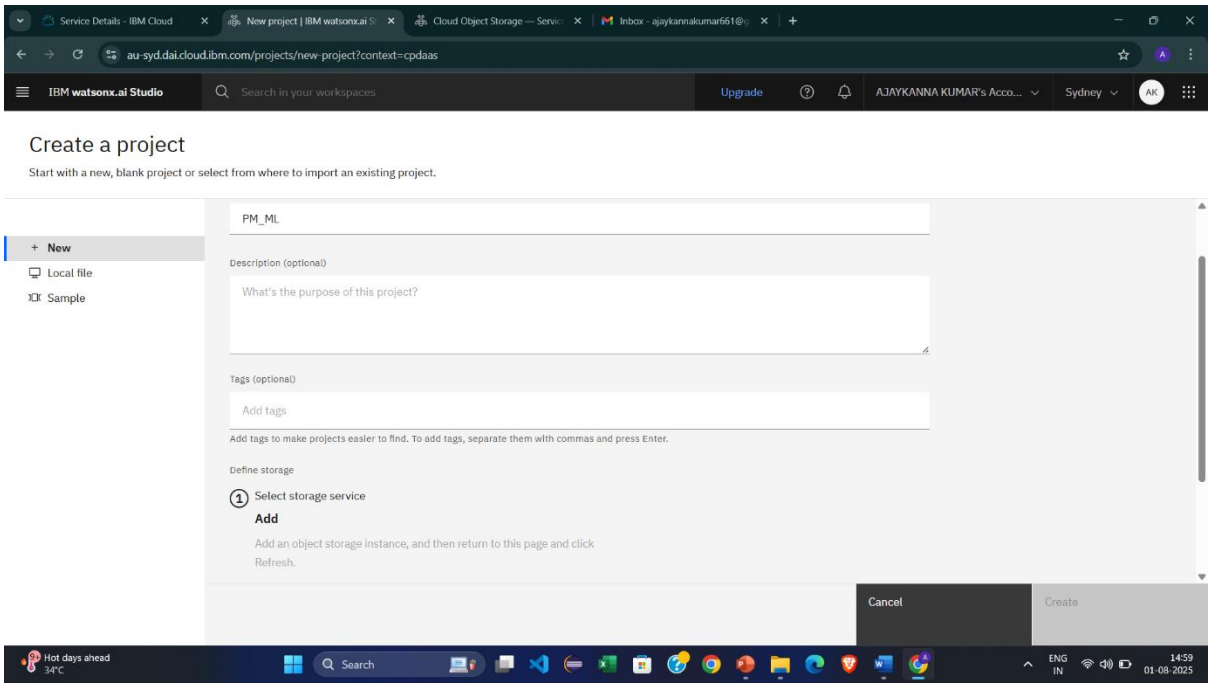
Step4: Create an Runtime which contains Hardware and Software to run an Instance. [**Runtime=PowerHouse].**

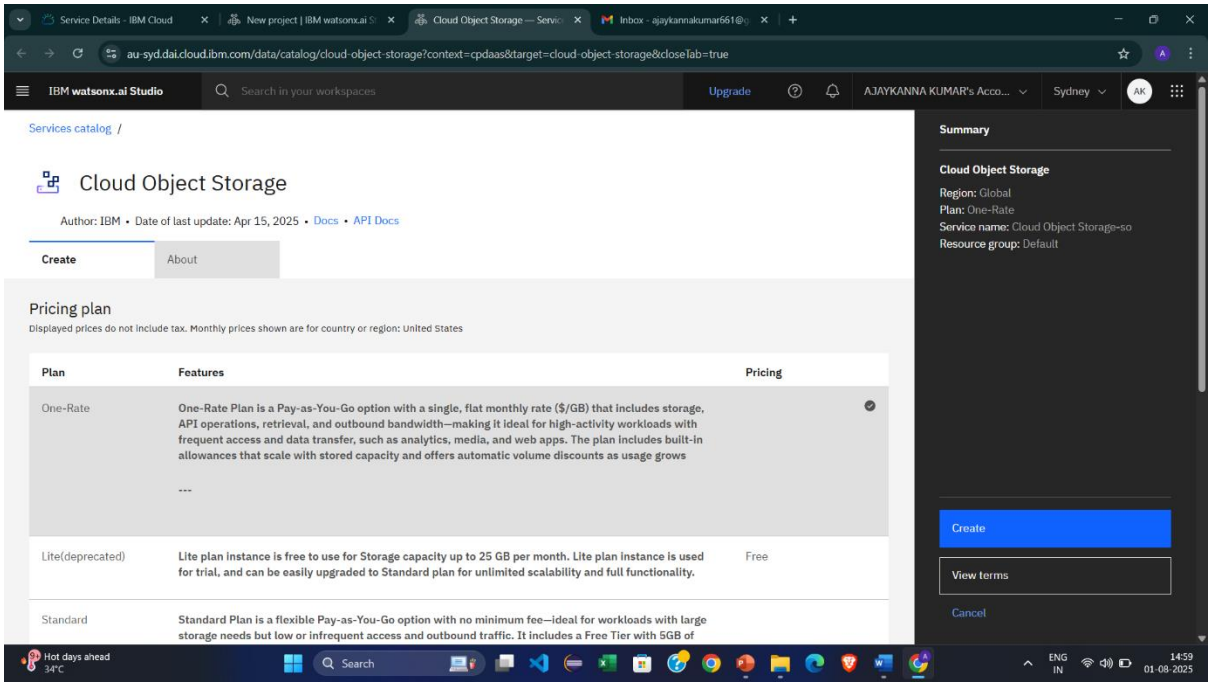


Step5: Create an new Project by clicking on New Project tab after the Runtime.



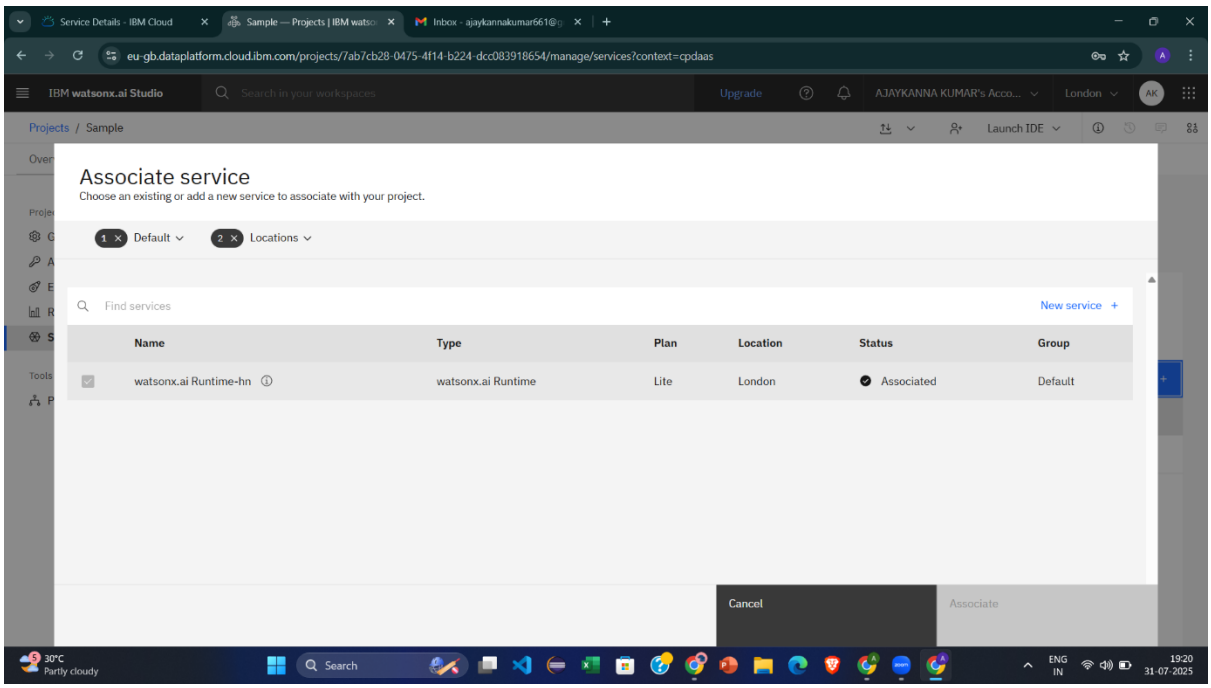
Step6: Give name of Our Project and then add the Storage space also for the Project by Clicking on add(+) icon.



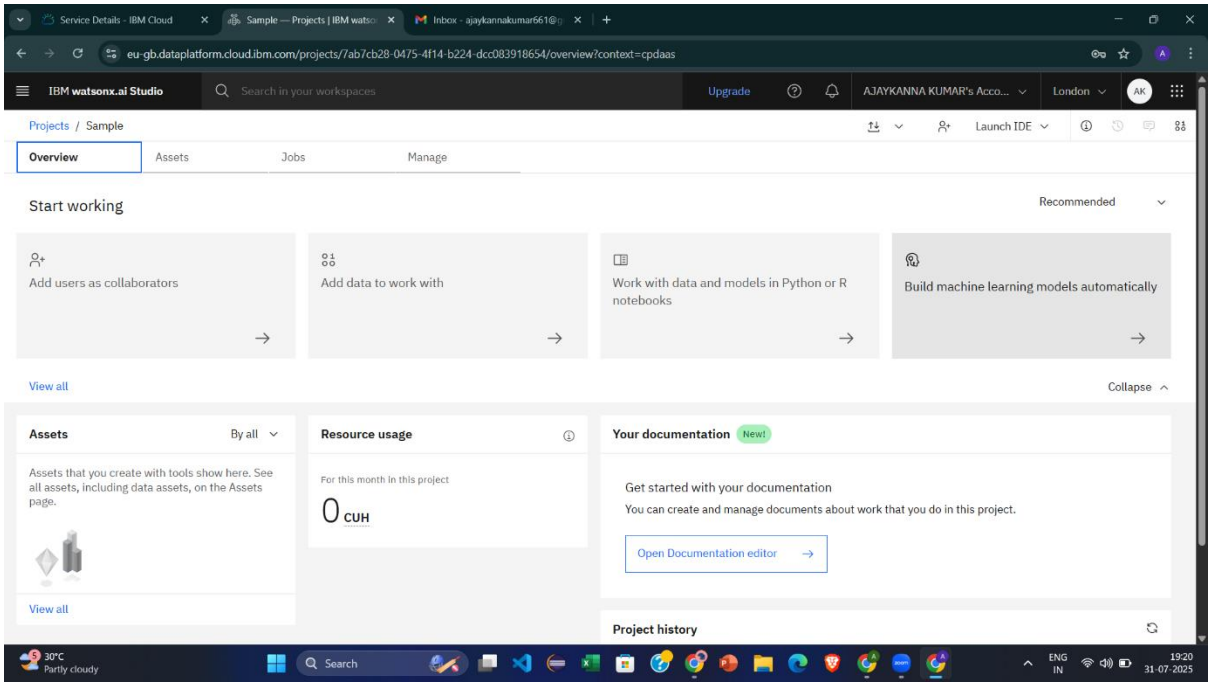


[Note: Click on Free Pricing only for the Lite Version]

Step 7: Switch to the manage tag and Click on the Associate Service and add associate the Runtime service to the Project.

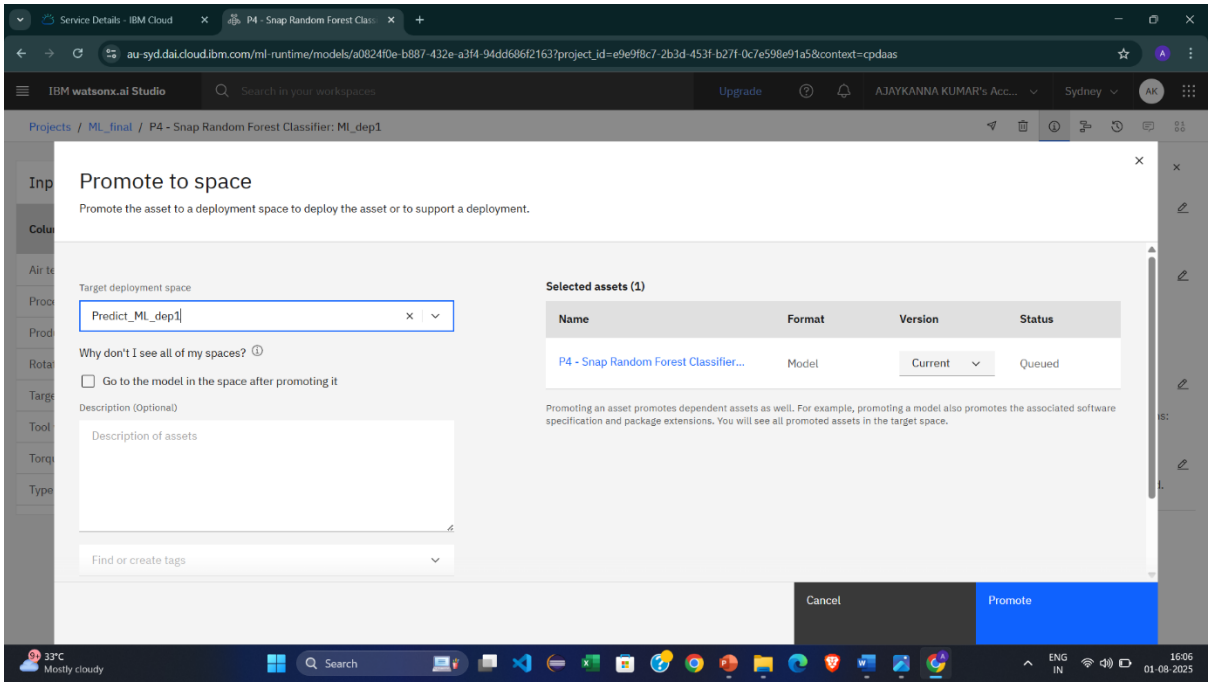


Step 8: Click on "**Build an Machine Learning Model** " and add your data to train the model.

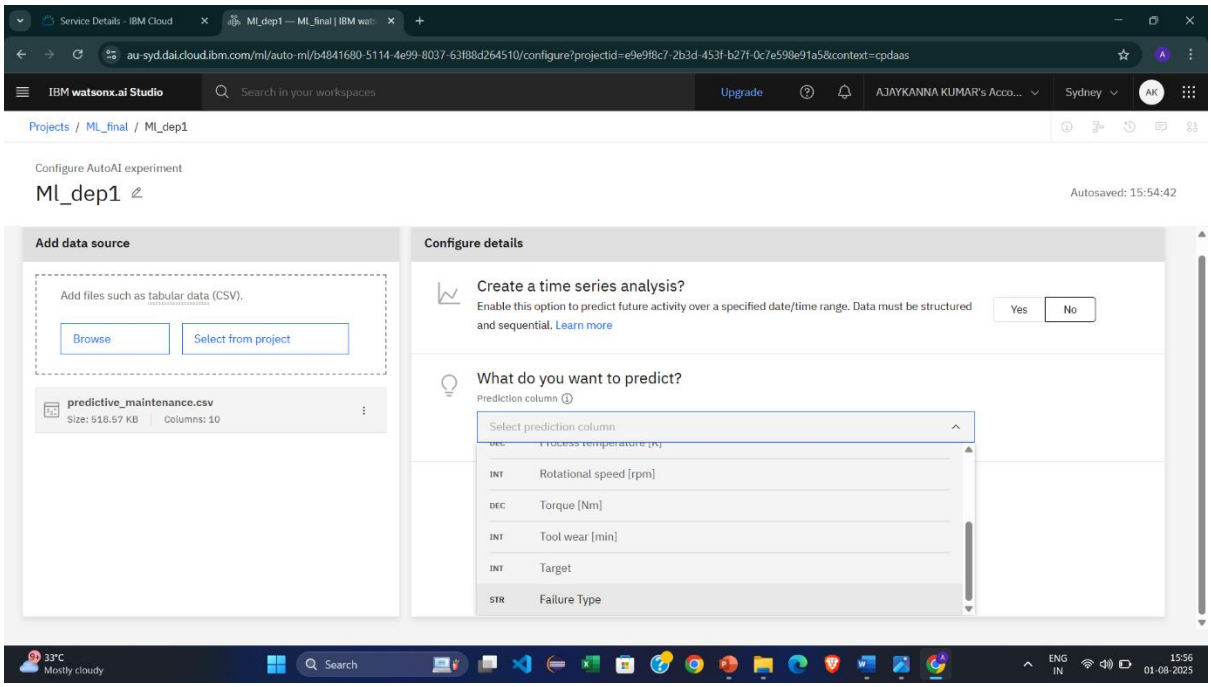


Step 9: Add the DataSet You want to predict.

Step 10: Click on the Promote to Space and also add the Deployment Space.



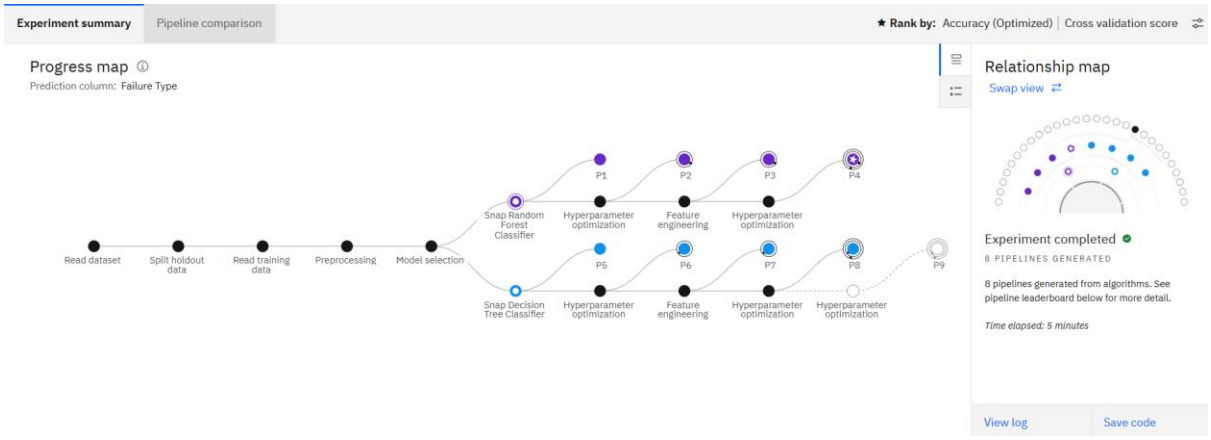
Step 11: Identify a MultiClass Classification Row and make that Column to Train a model.

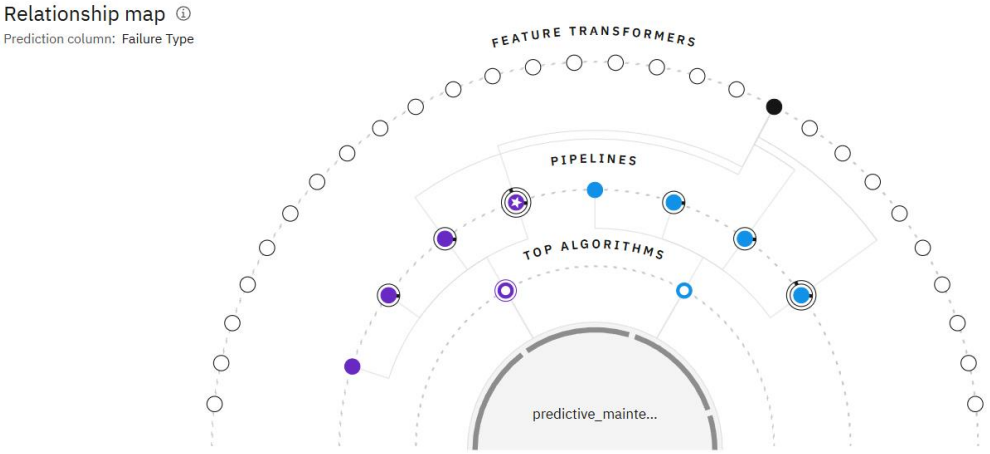


Step 13: Click on Run Experiment to Run a model and take the algorithm which gives the highest accuracy among the models.

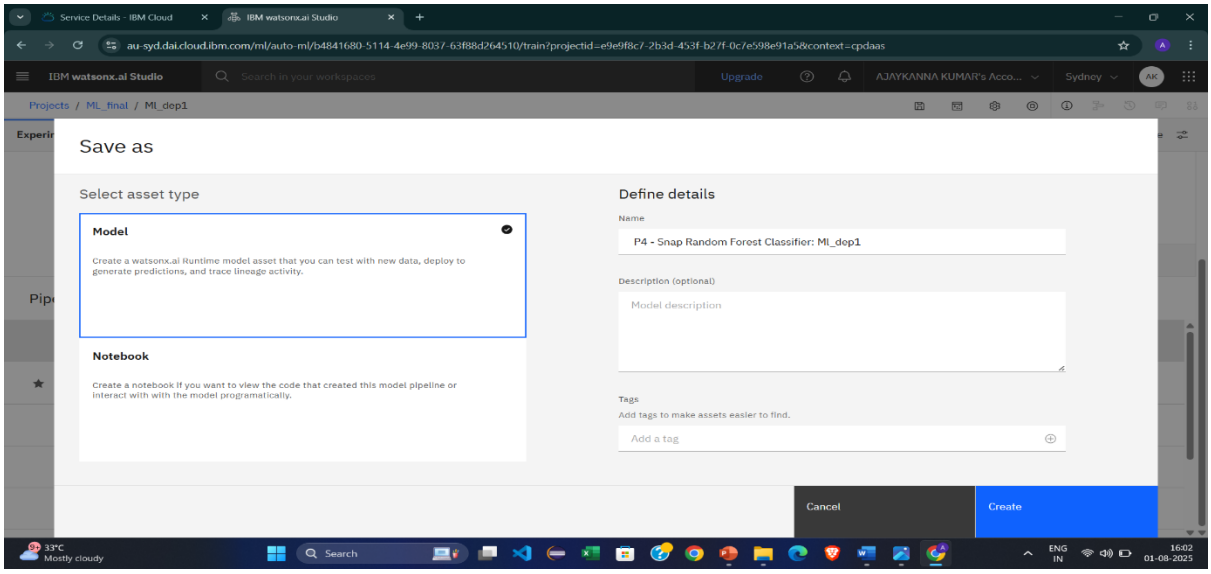
	Rank ↑	Name	Algorithm	Specialization	Accuracy (Optimized) Cross Validation	Enhancements	Build time
★	1	**Pipeline 4**	Snap Random Forest Classifier		0.995	HPO-1 FE HPO-2	00:00:42
	2	**Pipeline 3**	Snap Random Forest Classifier		0.995	HPO-1 FE	00:00:34
	3	**Pipeline 8**	Snap Decision Tree Classifier		0.994	HPO-1 FE HPO-2	00:00:27
	4	**Pipeline 2**	Snap Random Forest Classifier		0.994	HPO-1	00:00:13

Step 14: After running Experiment, see the Flow of Running of ML Model.

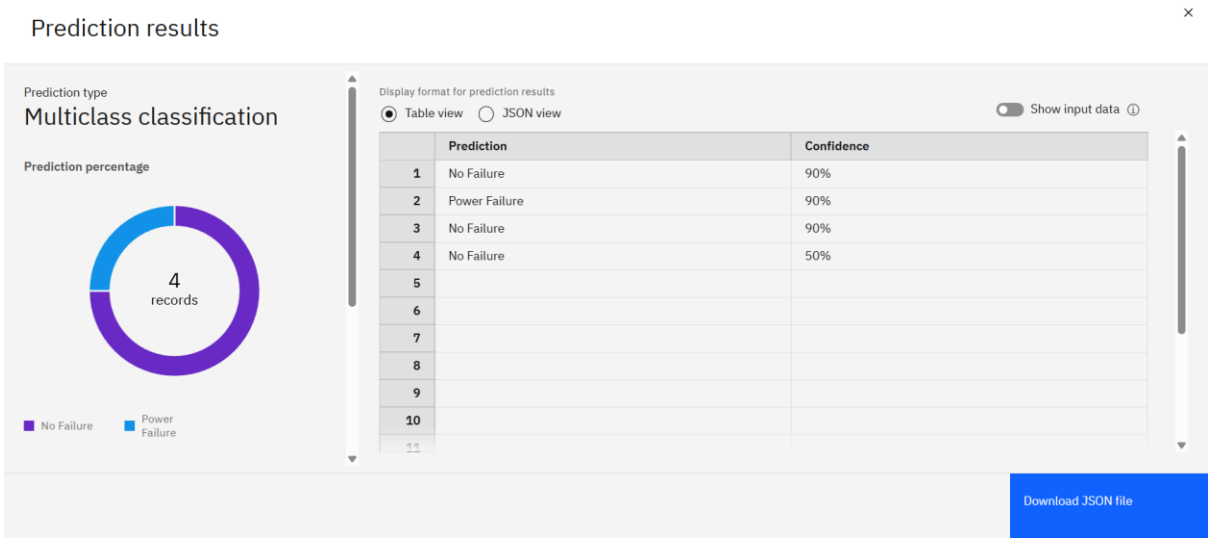




Step15: Click on Save button and name the model and Click on create.



Step 16: Give our Inputs and predict the Results from our trained data.



Based on the Results, we can take our decision on the Confidence meter.

AJAYKANNA K

KONGU ENGINEERING COLLEGE

itsajaykanna@gmail.com