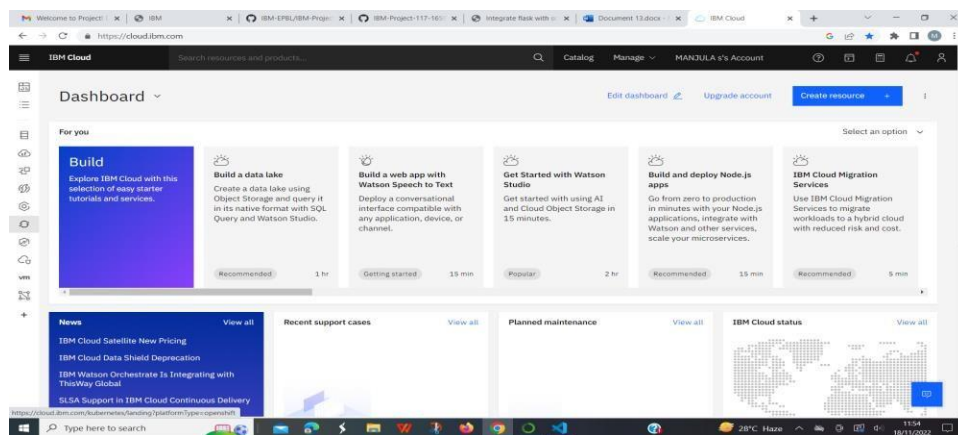


Train the model on the IBM

Team ID	PNT2022TMID10653
Project Name	CAR RESALE VALUE PREDICTION

Step1: Open the IBM cloud



Step 2: create the Watson service

Step 3: create a new project for the deploying the car resale value prediction

Step 4: Upload the car_resale_value_prediction_final.ipynb file to train the model on the IBM cloud using the API key

```
In [1]: #Importing Libraries

In [2]: conda install -c conda-forge imbalanced-learn
Collecting package metadata (current_repodata.json): done
Solving environment: done

## Package Plan ##

  environment location: /opt/conda/envs/Python-3.9

  added / updated specs:
    - imbalanced-learn

The following packages will be downloaded:

  package | build
  ----- | -----
  certifi-2022.9.24 | pyhd8ed1ab_0 155 KB conda-forge
  imbalanced-learn-0.7.0 | py_1 97 KB conda-forge
  ----- | -----
  Total: 252 KB

The following NEW packages will be INSTALLED:

  imbalanced-learn conda-forge/noarch::imbalanced-learn-0.7.0-py_1

The following packages will be SUPERSEDED by a Higher-priority channel:

  certifi pkgs/main/linux-64::certifi-2022.9.24 --> conda-forge/noarch::certifi-2022.9.24-pyhd8ed1ab_0

Downloading and Extracting Packages
certifi-2022.9.24 | 155 KB | ##### 100%
imbalanced-learn-0.7.0 | 97 KB | ##### 100%
```

Step 5: Train the model on the IBM cloud at least the deployed space created

```
-----
d2725e34-0d61-43ae-9226-bd704d392afe deploy_space 2022-11-14T16:25:33.434Z
-----

In [80]: space_id="d2725e34-0d61-43ae-9226-bd704d392afe"

In [81]: vml_client.set_default_space(space_id)

Out[81]: 'SUCCESS'

In [82]: vml_client.software_specifications.list()

-----
NAME                ASSET_ID                TYPE
-----
default_py3.6       0062b0c9-8b7d-44a0-a9b9-46c416adcb09 base
kernel-spark3.2-scala2.12 02b060ce-7ac1-5e68-ac1a-11189867356a base
pytorch-omnx_1.1-py3.7-edt 069a413a-1846-57d8-b513-4912b15d208a base
scikit-learn_0.20-py3.6 09c5a1d0-9a1a-4473-a344-ab7b665ff687 base
spark-mllib_3.0-scala_2.12 09f4cffe-90a7-5899-b3ad-1ef348aadb0a base
pytorch-omnx_rt22.1-py3.9 0b848dd4-a081-5599-ba41-b5f6fccc6471 base
xl-function_0.1-py3.6 0cd80ff1e-5376-4f4d-92d4-da3b6faa9bda base
shiny-r3.6 0a6e79df-875a-4f24-8ae9-62ccc21a8306 base
tensorflow_2.4-py3.7-horovod 109299ba-3070-563d-9b62-4eb7d6407f22 base
pytorch_1.1-py3.6 10ac120c-683b-4c4d-e852-4a822c09a952 base
tensorflow_1.15-py3.6-ddl 111e41b3-9e3d-5422-a4d6-bf776828c4b7 base
autox-ml_rt22.2-py3.10 12516d9e-5b1f-5e8d-972a-b251088ccf40 base
runtime-22.1-py3.9 12b83a17-2408-5082-900f-0ab31fbfd3cb base
scikit-learn_0.22-py3.6 154010fa-5b3b-4ac1-82af-d55ea5abb85 base
default_r3.6 1b70aec3-ab34-4b07-8aa0-a4a3c829a36 base
pytorch-omnx_1.3-py3.6 1bc6029a-c97-56da-b0a0-39c3800dbb67 base
kernel-spark3.3-r3.6 1c9e545a-f216-50d8-a28e-47a5c0f5f08b base
pytorch-omnx_rt22.1-py3.9-edt 1d162186-7a0f-5b59-806c-a40808de337f base
tensorflow_2.1-py3.6 1ab2508a-06ad-5dda-b0a5-3fbd71605a66 base
spark-mllib_3.2 20047f72-0a08-58c7-0ff5-a77b012a88f5 base
tensorflow_2.4-py3.8-horovod 217c16fe-178f-560f-824a-b19f20564c49 base
runtime-22.1-py3.9-cuda 26215f05-08c3-5a41-a1b0-da66306ce658 base
do_py3.8 295adb55-9af9-547e-90f6-92ae3563a720 base
autox-ml_rt_3.8-py3.8 2a4b0932-790f-5ae0-ab06-15e0c2a82f05 base
tensorflow_1.15-py3.6 2b73a275-7a3f-420b-a913-aae7f43ba00c base
imbalanced-learn_0.7.0-py3.8 3b704a1a-3e3b-4a7e-b251-482c81a0206c base
-----
```