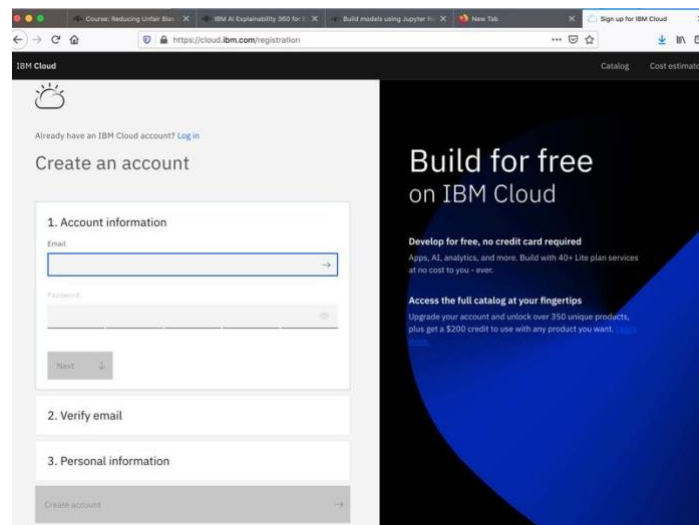


# Running this course Notebooks in Watson Studio on the IBM Cloud

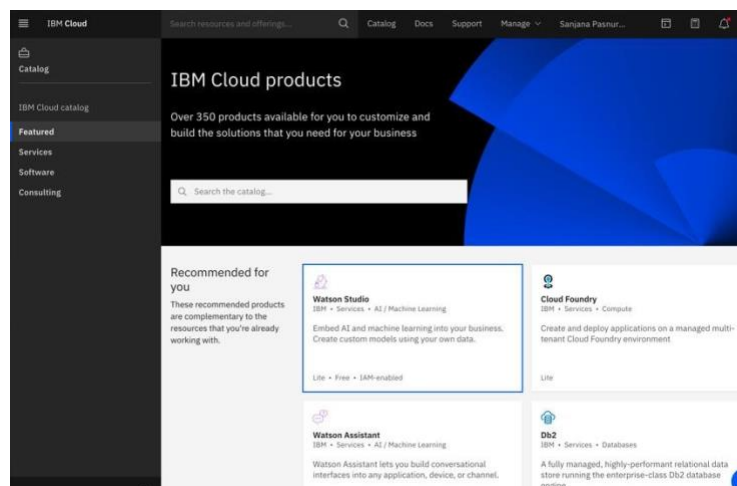
The notebooks provided in this course are written to run on Watson Studio in the IBM Cloud. Please follow the below step by step process to run these notebooks. There is no need to import any additional data set as the “Medical Expenditure Panel Survey” data set that we are using within this notebooks is already included with the opensource toolkit “AI Fairness 360”.

## Steps for running notebooks in Watson Studio

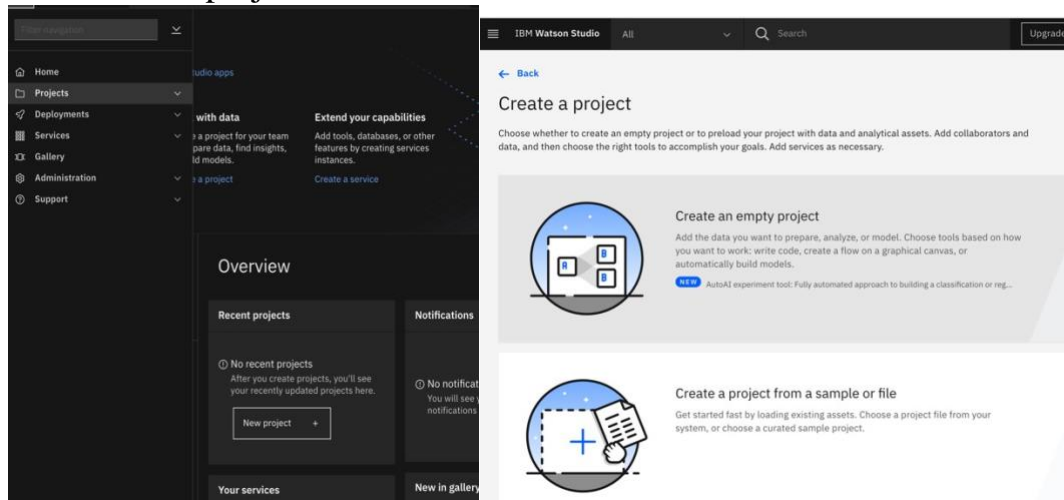
- Log into the [IBM Cloud](https://cloud.ibm.com) / register an account



- Search for ‘Watson studio’ in the search bar and create an instance of Watson Studio



- Create a new project in Watson Studio



- Name it as “usecase\_notebooks\_ai\_fairness”. If **you do not have a default** cloud-object-storage instance already selected, please choose ‘Cloud Object Storage-Demo’ from the dropdown.



## New project

### Define details

Name

Description

### Choose project options

☒ Restrict who can be a collaborator ⓘ

Project includes integration with [Cloud Object Storage](#) for storing project assets.

### Define storage

Select storage service

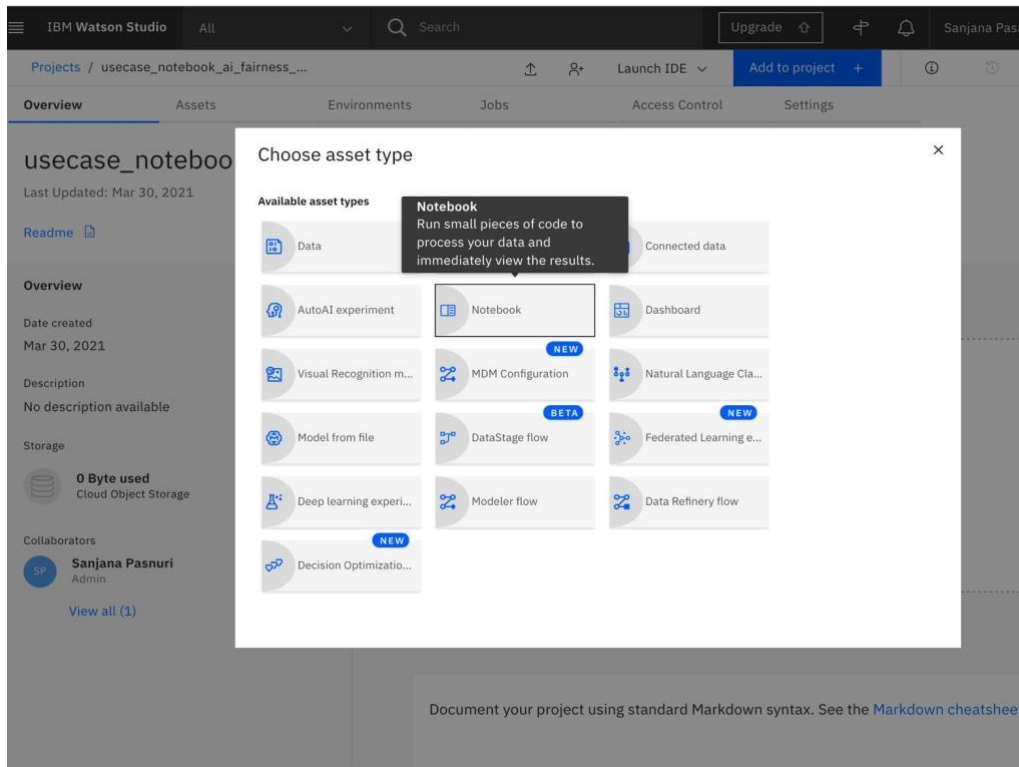
Target Cloud Object Storage Instance

Cloud Object Storage-Demo

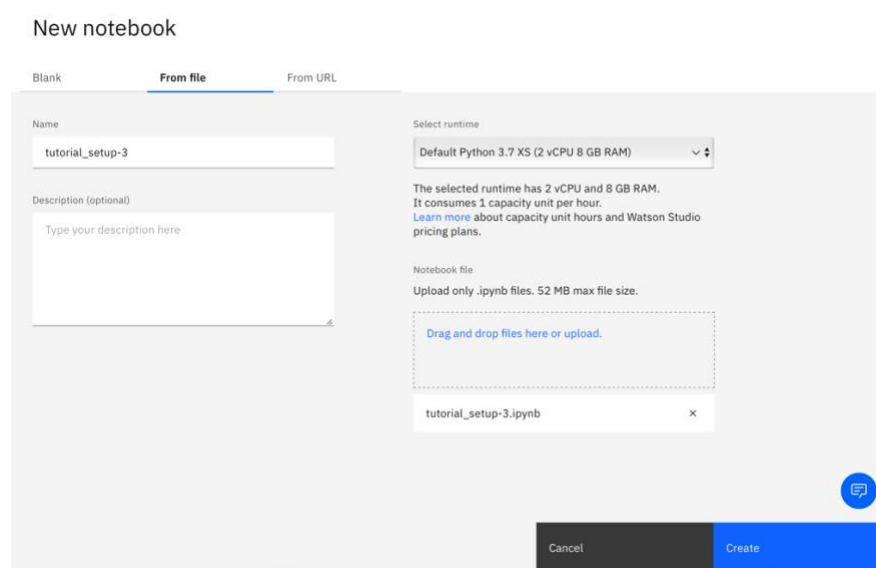
Cancel

Create

- Open the “usecase\_notebooks\_ai\_fairness” project and add the provided notebooks to the project.



- First import the notebook “[tutorial\\_setup.ipynb](#)” into the “usecase\_notebooks\_ai\_fairness” project



- After importing the notebook “[tutorial\\_setup.ipynb](#)” into the “usecase\_notebooks\_ai\_fairness” project then import “[tutorial\\_medical\\_expenditure.ipynb](#)” into the “usecase\_notebooks\_ai\_fairness”

New notebook

Blank From file From URL

Name  
tutorial\_medical\_expenditure

Description (optional)  
Type your description here

Select runtime  
Default Python 3.7 XS (2 vCPU 8 GB RAM)

The selected runtime has 2 vCPU and 8 GB RAM.  
It consumes 1 capacity unit per hour.  
Learn more about capacity unit hours and Watson Studio pricing plans.

Notebook file  
Upload only .ipynb files. 52 MB max file size.

Drag and drop files here or upload.

tutorial\_medical\_expenditure.ipynb

Cancel Create

- Open the Assets tab and then run the following notebooks **in the order mentioned below**

Projects / usecase\_notebooks\_ai\_fairness

Overview Assets Environments Jobs Access Control

What assets are you looking for?

▼ Data assets

Name	Type	Created by
You don't have any Data assets yet.		

▼ Notebooks

Name	Shared	Scheduled	Status	Language
tutorial_setup			○	
tutorial_medical_expenditure			○	

- Run the notebook “[tutorial\\_setup.ipynb](#)”

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Projects / usecase\_notebooks\_ai\_fairness / tutorial\_setup

Edit

Install required packages

```
In [1]: !pip install 'aif360[all]'
!pip install xport
!pip install csv
!pip install lime
```

- Run the notebook “[tutorial\\_medical\\_expenditure.ipynb](#)”

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Projects / usecase\_notebooks\_ai\_fairness / tutorial\_medical\_expenditure

Edit

Medical Expenditure Tutorial

This tutorial demonstrates classification model learning with bias mitigation as a part of a Care Management use case using Medical Expenditure