Lab Watson Studio Basics

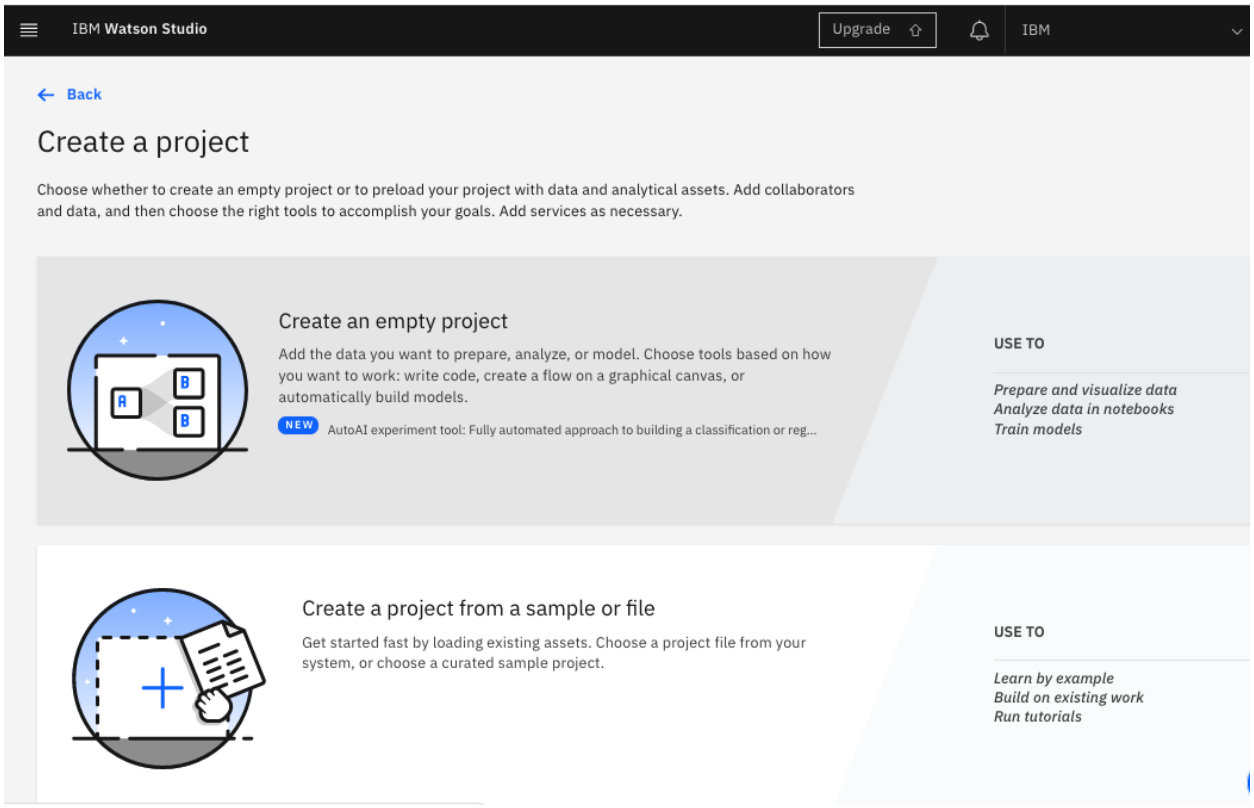
Summary

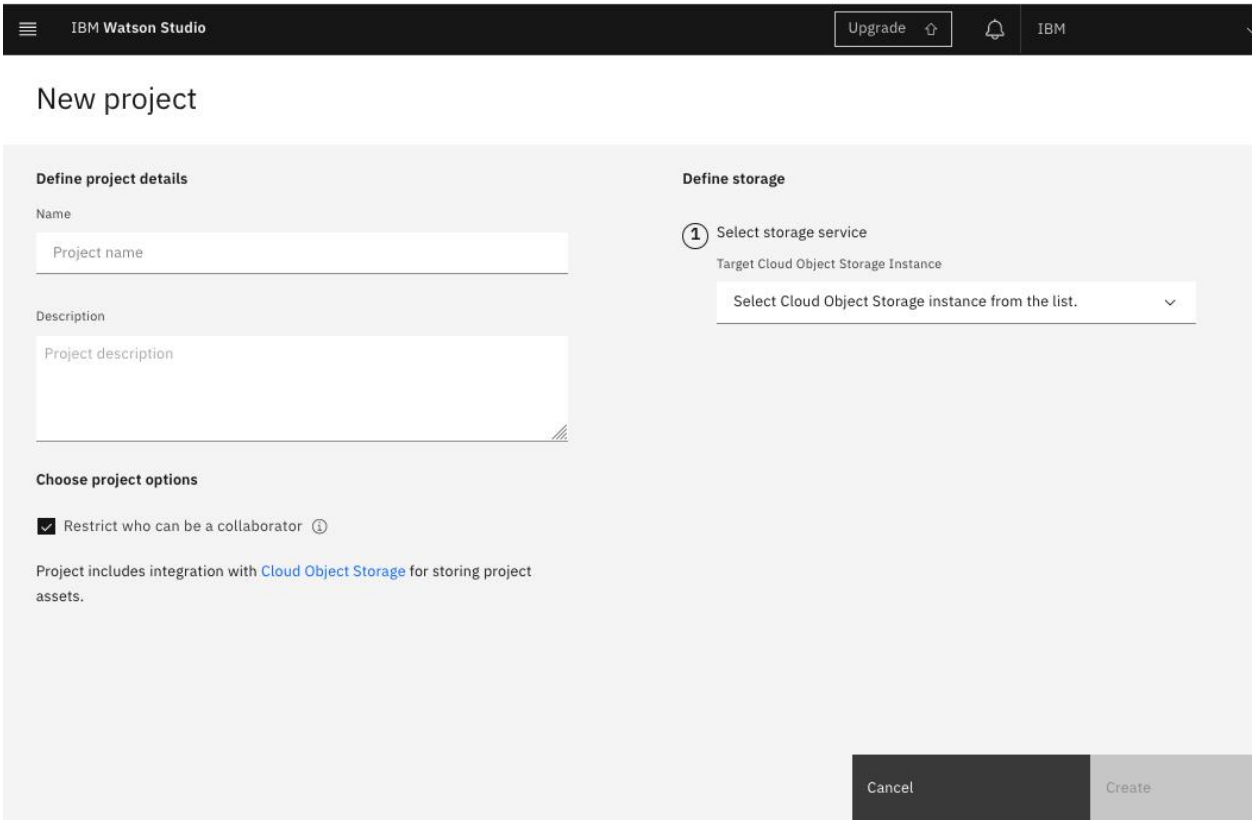
In this lab you will learn how to:

- Create and add files to a project
- Generate code which imports a pandas dataframe into a notebook

Instructions

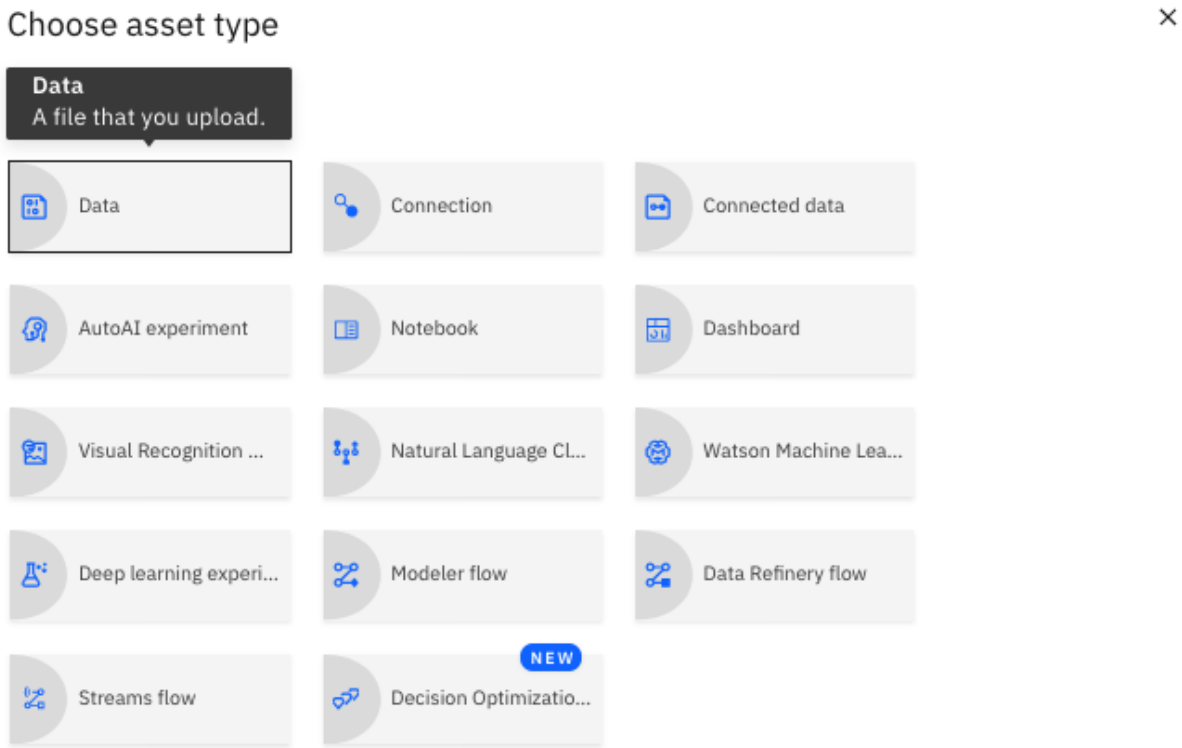
1. Create Project and Add Services
    a. On the main IBM Watson page display the Get started view and click on "New project"
    b. Select the "Standard" project tile and click on Create Project
    c. Fill in the screen fields and create the project:
        i. Enter "Customer_Churn_{Initials}" for Name
        ii. Write a brief description for this project
        iii. Select Create to create the new project
    d. Select the Settings tab and scroll to "Associated services"
    e. Click on "Add service → Watson". It is assumed that all necessary services were provisioned prior to the start of this lab. If they do not exist and you have permission within the account, then create a Lite instance of the service as described below
    f. Click on Add in the "Machine Learning" box
        i. If an existing service instance is available for you then select it and click on Select --OR—
        ii. Select New
            1. Select a Lite instance and click on Create
            2. Accept the defaults on the Confirm Creation pop-up and click on Confirm
    g. Return to the project Assets view

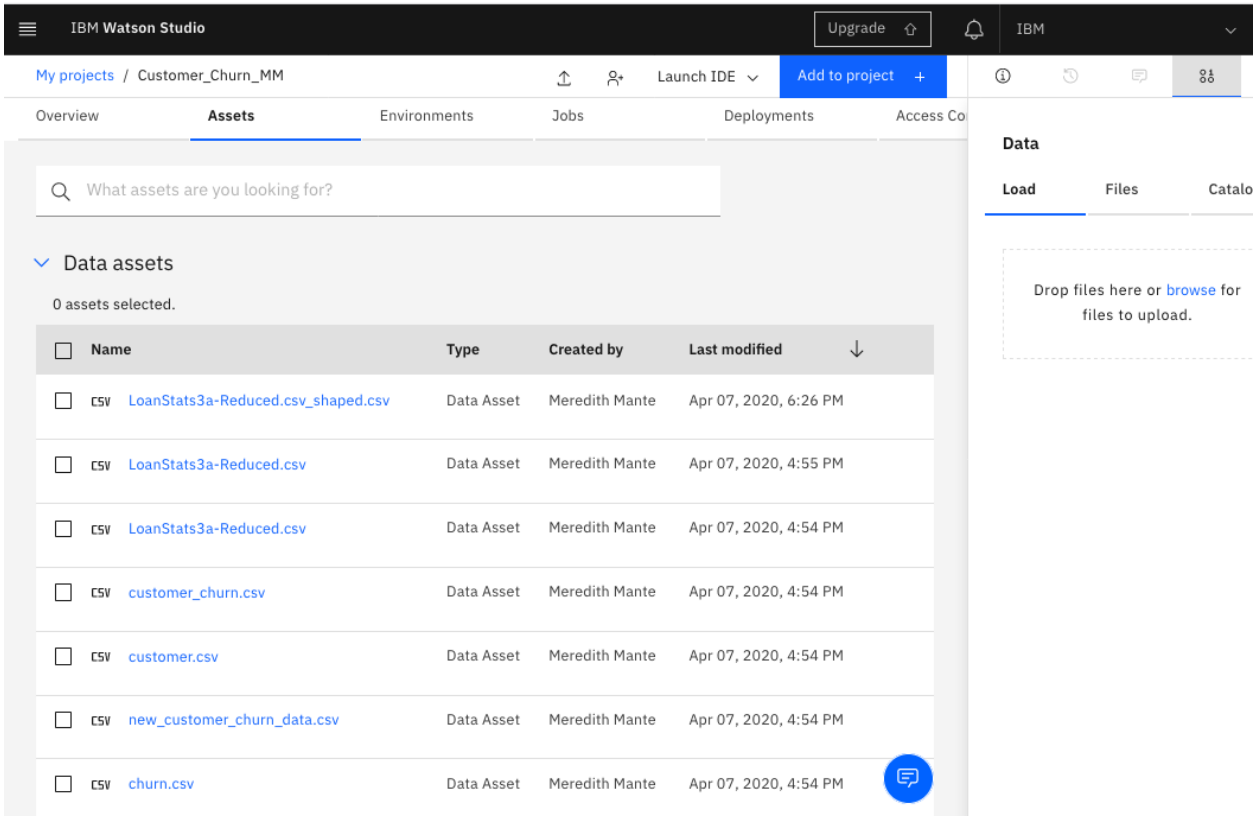

IBM Watson Studio
Upgrade
IBM
Back
Create a project
Choose whether to create an empty project or to preload your project with data and analytical assets. Add collaborators and data, and then choose the right tools to accomplish your goals. Add services as necessary.
Create an empty project
Add the data you want to prepare, analyze, or model. Choose tools based on how you want to work: write code, create a flow on a graphical canvas, or automatically build models.
NEW
AutoAI experiment tool: Fully automated approach to building a classification or reg...
USE TO
Prepare and visualize data
Analyze data in notebooks
Train models
Create a project from a sample or file
Get started fast by loading existing assets. Choose a project file from your system, or choose a curated sample project.
USE TO
Learn by example
Build on existing work
Run tutorials


IBM Watson Studio
Upgrade
IBM
New project
Define project details
Name
Project name
Description
Project description
Choose project options
Restrict who can be a collaborator
Project includes integration with Cloud Object Storage for storing project assets.
Define storage
1
Select storage service
Target Cloud Object Storage Instance
Select Cloud Object Storage instance from the list.
Cancel
Create

2. Add Data Assets from a Local File System

    a. Select the + Add to project in your project
    b. Select Data from the Find and add data pane
    c. Load Lab files
        i. Click on browse and navigate to the directory with the lab files
        ii. Select the 2 files to be added to the project.
        iii. Optionally - Instead of browse you can drag and drop the files to the Load pane
    d. Verify that the assets you chose were added to the list of Data assets in the project





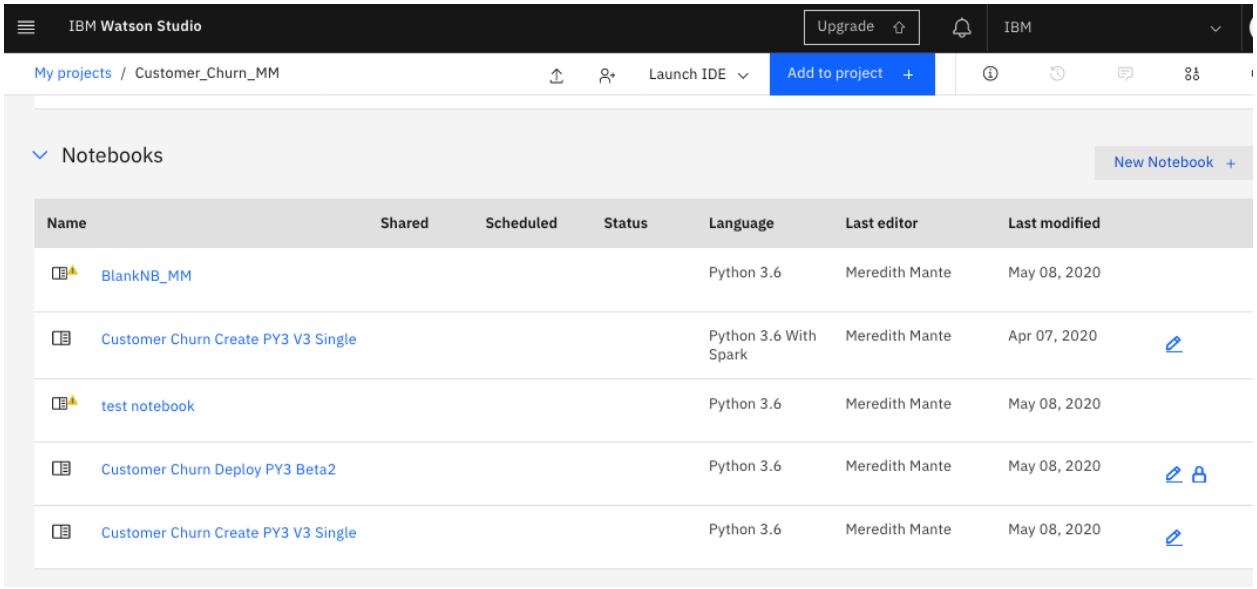
3. Loading a Blank Notebook

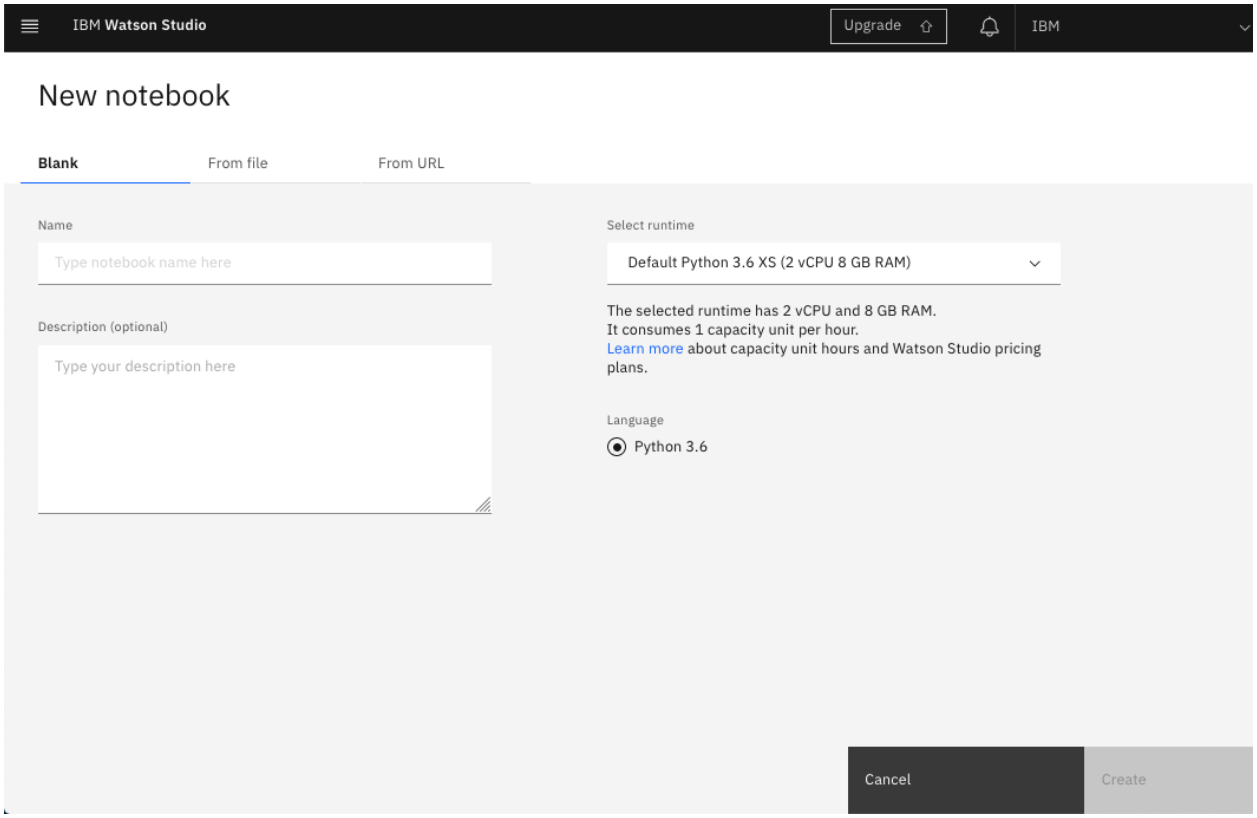
   a. In the project asset list scroll down and select New Notebook next to Notebooks
   b. Select Blank from top of the screen
   c. Enter a Name BlankNB_{Initials} and Description
   d. Select the following options:
      i. Language – Python 3.6
      ii. Runtime – Default Python 3.6 Free (1 vCPU and 4 GB RAM)
   e. Select Create Notebook at bottom of the screen
   f. Select Markdown in the Format box dropdown and enter some description text in the notebook cell
   g. Select Insert → Insert Cell Below
   h. Select the Find and add data "1000" icon from the top right of the screen
   i. Under Files → customer.csv select the Insert to Code drop down
   j. Select Insert pandas Data Frame to add code to your notebook
   k. Select Insert → Insert Cell Below
   l. Enter the following lines of code into the cell:

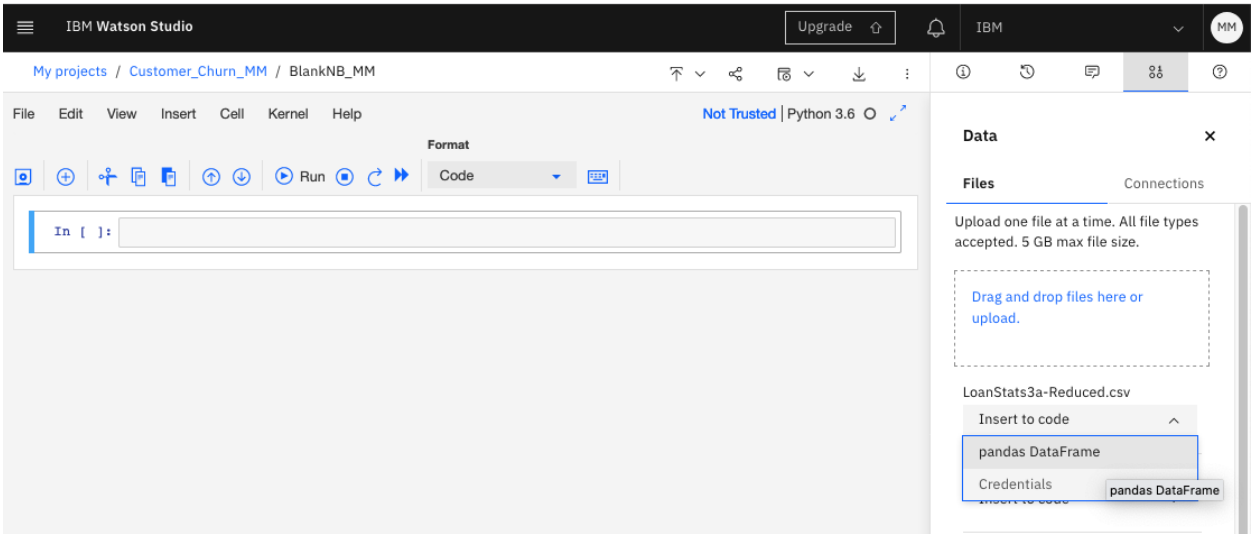
```
import seaborn as sns
import matplotlib.pyplot as plt

sns.pairplot(df_data_1)
```

   m. Run the cells and review the plot.

n. Click on File→Save to save your notebook






IBM Watson Studio
Upgrade
IBM
MM
My projects / Customer_Churn_MM / BlankNB_MM
File Edit View Insert Cell Kernel Help
Not Trusted | Python 3.6
Format
Run
Code
In [ ]:
Data
Files
Connections
Upload one file at a time. All file types accepted. 5 GB max file size.
Drag and drop files here or upload.
LoanStats3a-Reduced.csv
Insert to code
pandas DataFrame
Credentials
pandas DataFrame