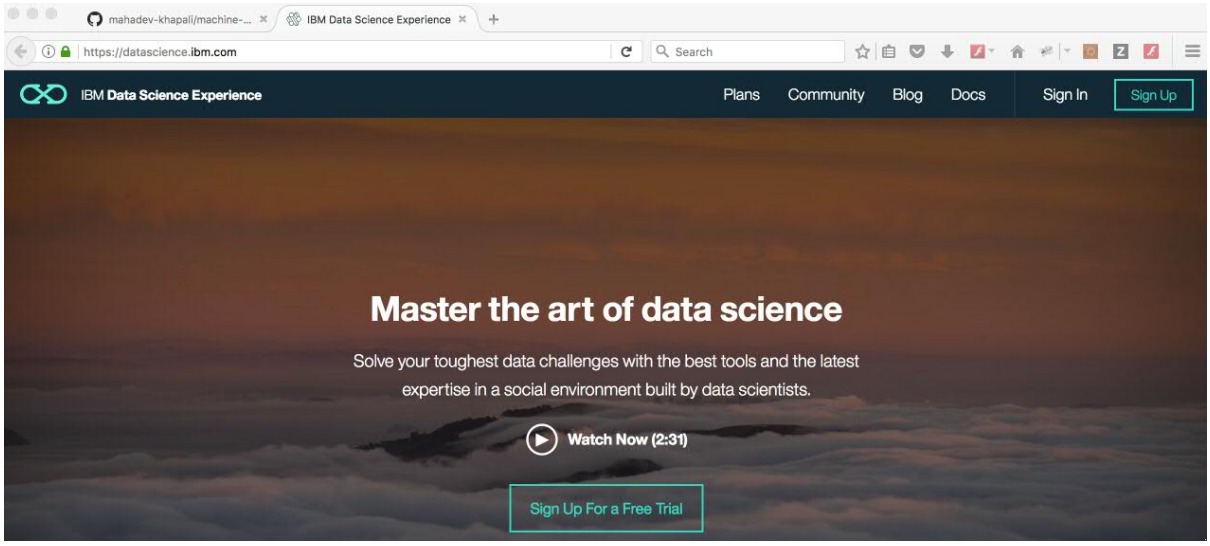
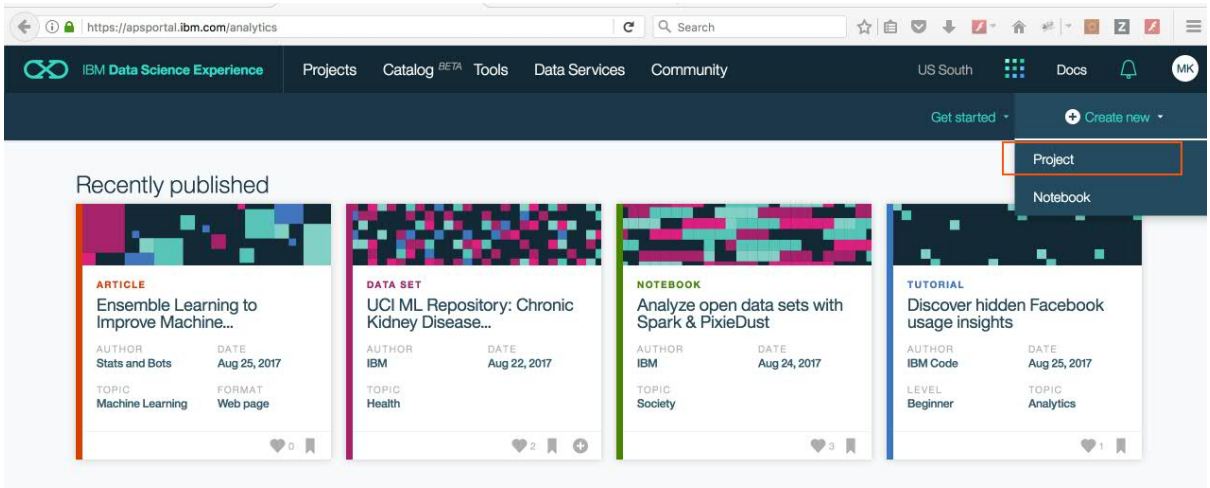
ML Model Building hand-on lab steps:

Log-in to https://datascience.ibm.com/ and sign-in if you have already registered else sign-up.

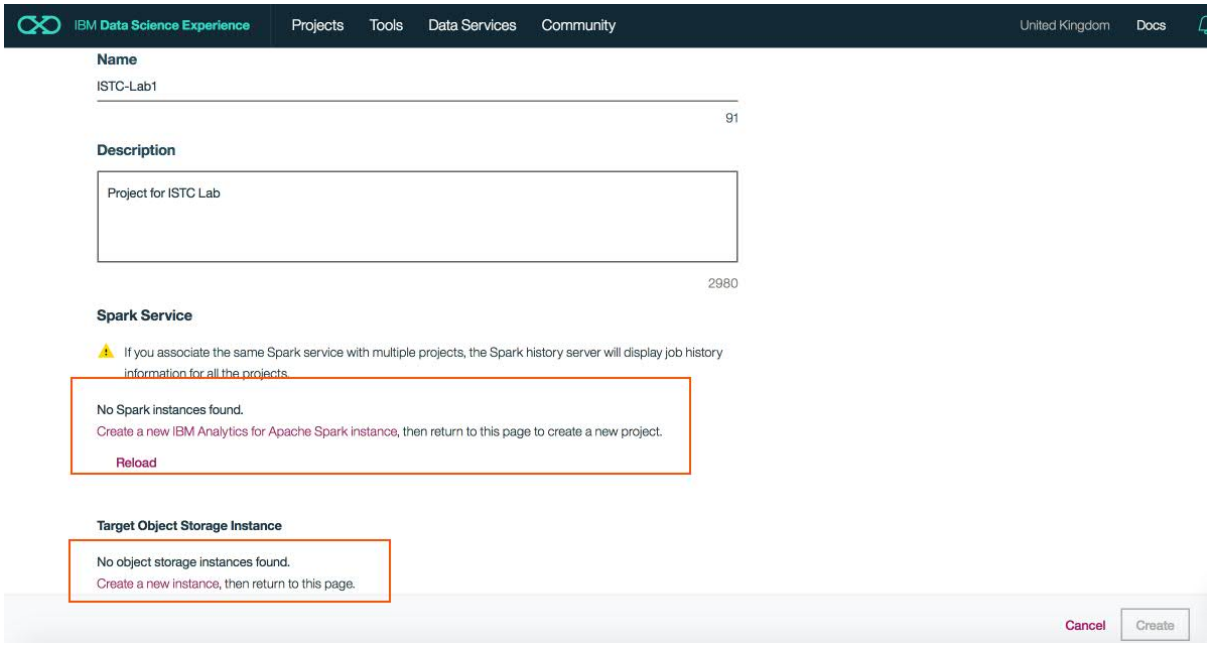


- After launching the the data-science portal lick on "Create new" → Project.

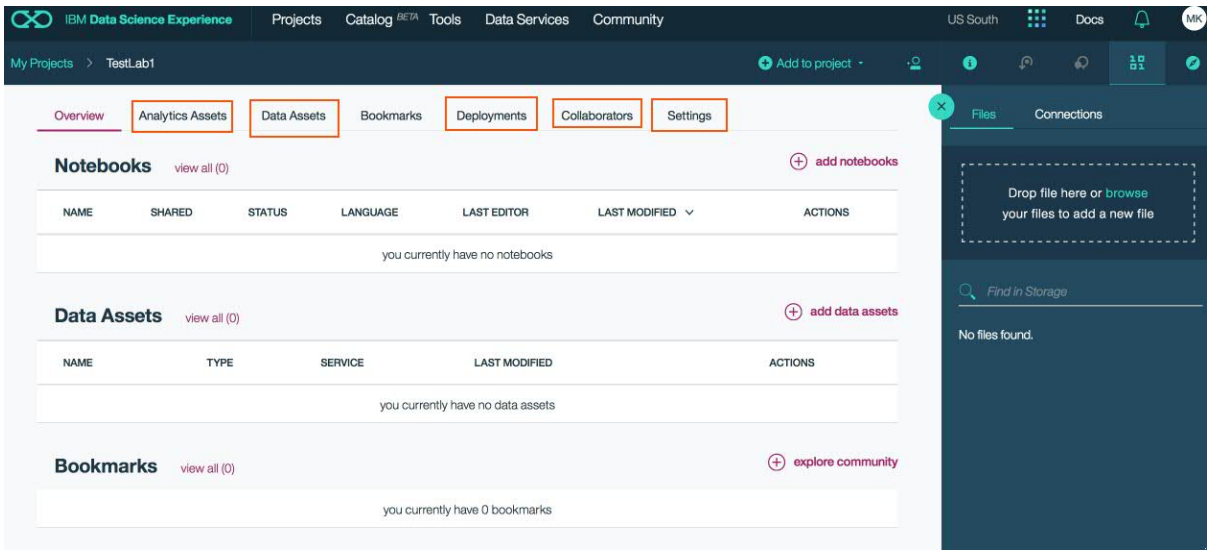


- In the create project page, you need to provide:
  - Project name
  - Spark-Service instance
  - Object Storage instance

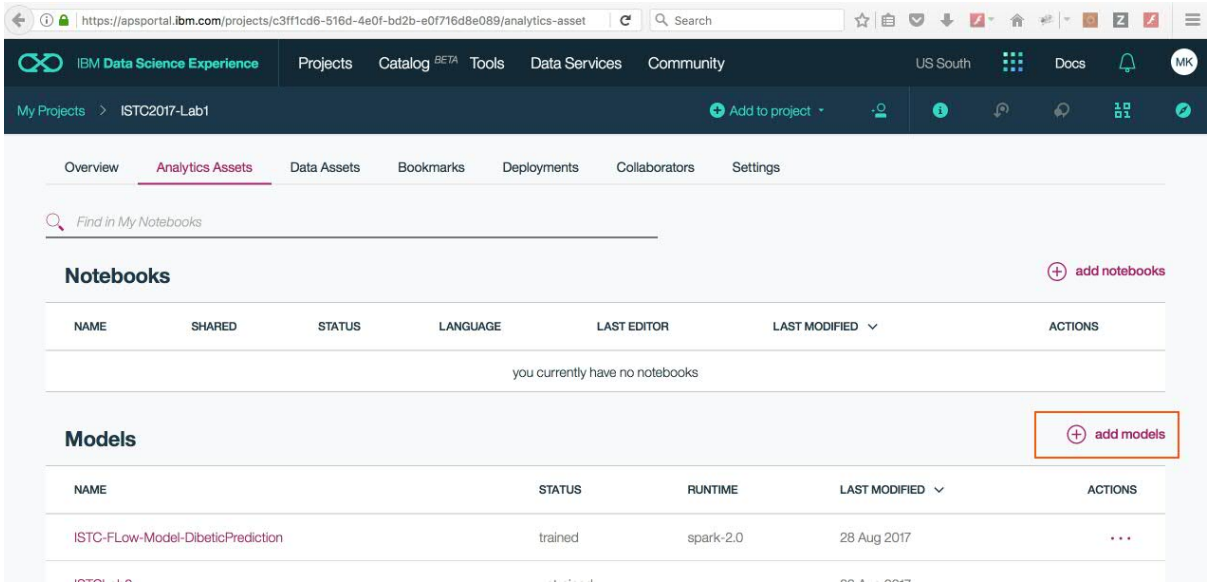
If you have already have the drop-down menu shows the list to choose from, else you are asked to provision a new Spark-Service and Object Storage instance as shown below:



- Now Project is created, browse through different Tabs like “Analytics Assets”, “Data Assests” , “Deployments” , “Collaborators” and “Settings”.

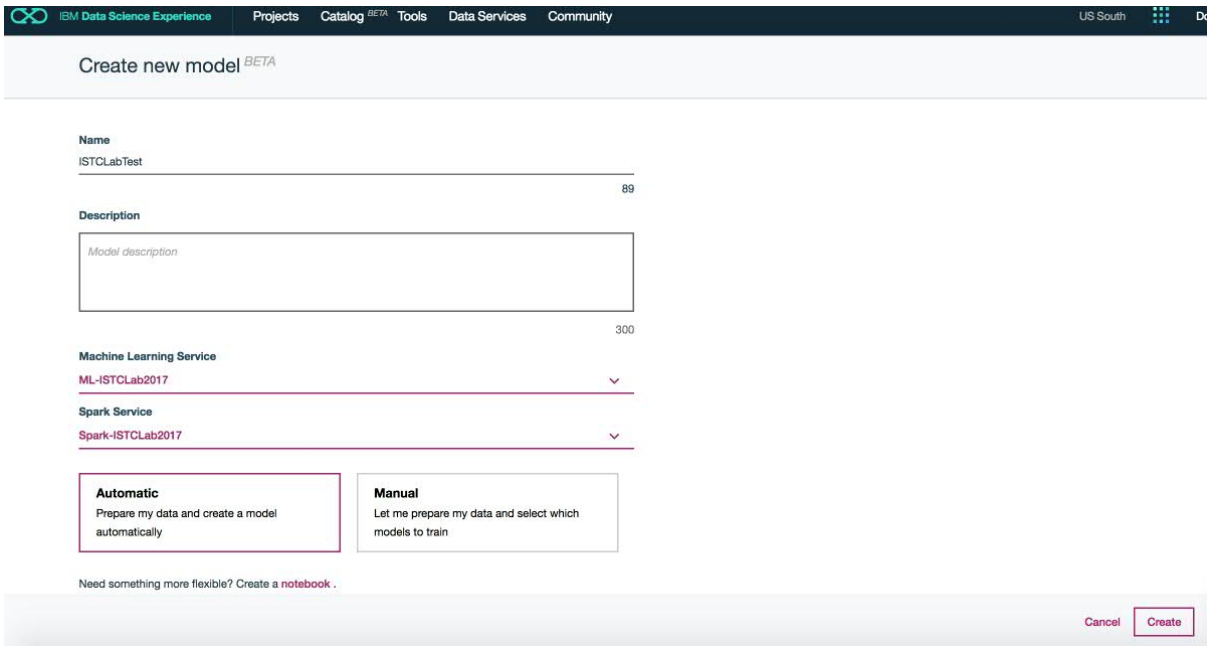


- Now click on “Analytics Assests” and click on “add models” to create a ML model



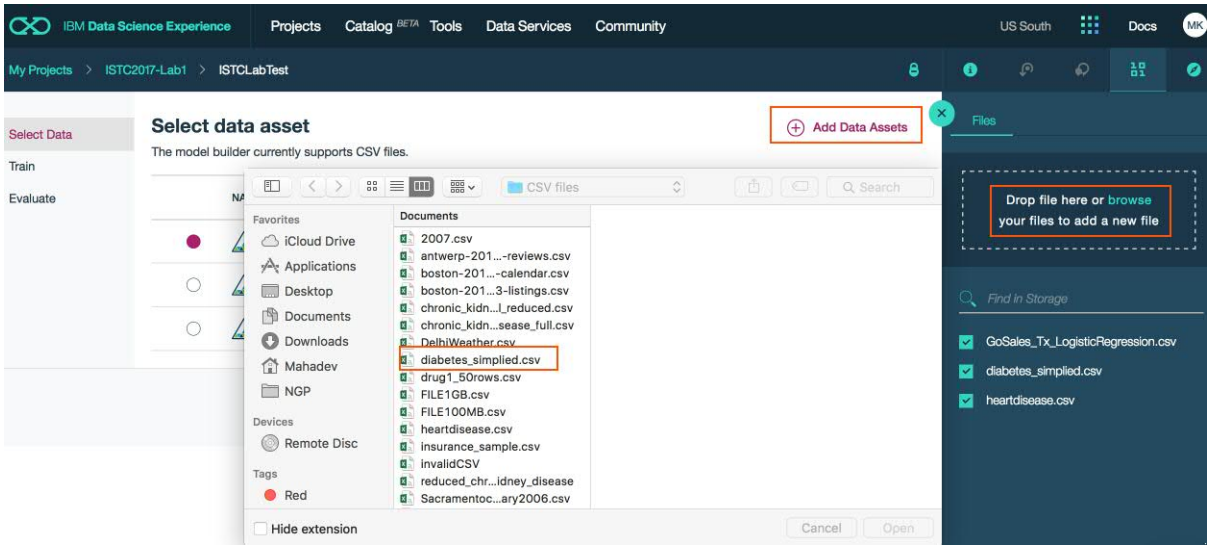
- Provide the “Model name”, “Machine Learning” and “Spark Service” instance name. You need to provision a “Machine Learning” service instance (if not provisioned already).

- You can select data preparation as “Automatic” or “Manual” according to your requirement.

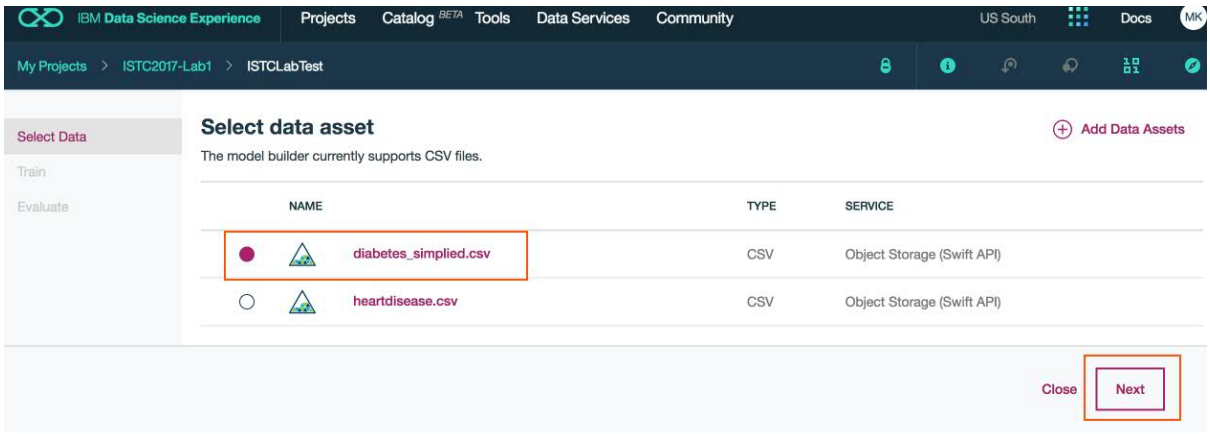


- Once the model is created you will land to “Select data asset” page. You can add your dataset to the “Data Assests” by clicking on “Add Data Assets”.

- Download the “diabetes_simplied.csv” dataset from the github link → https://github.com/mahadev-khapali/machine-learning



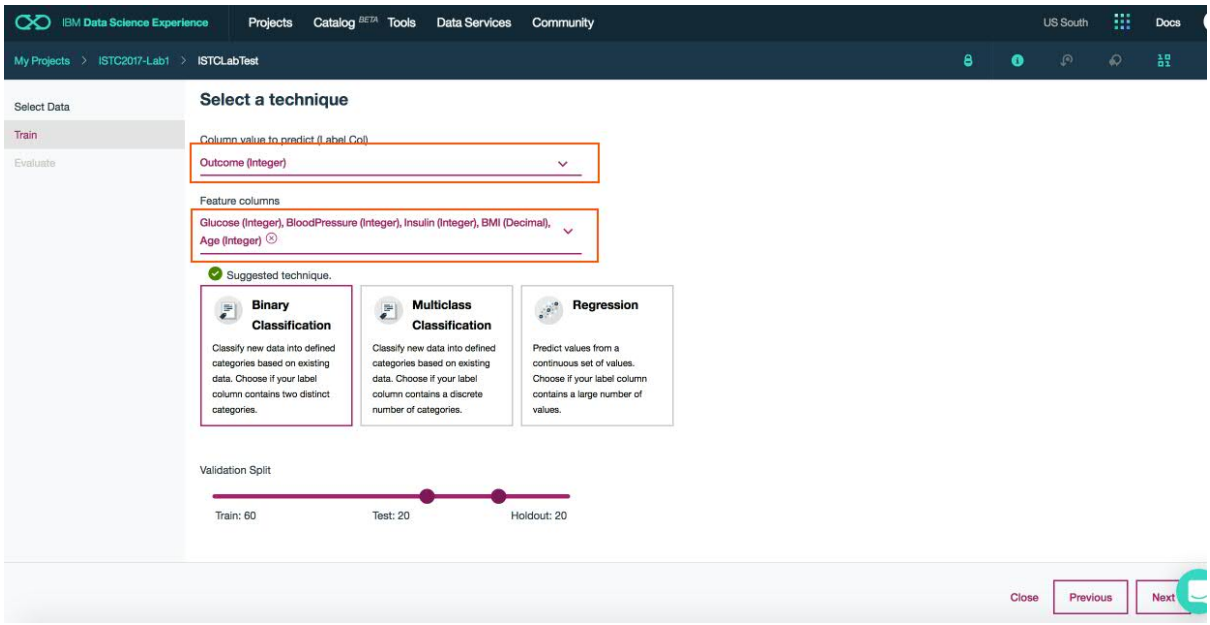
- Once the data set is added to the “Data Assets” it lists in the “Select data asset” page. Now user can select the required data set and click next.



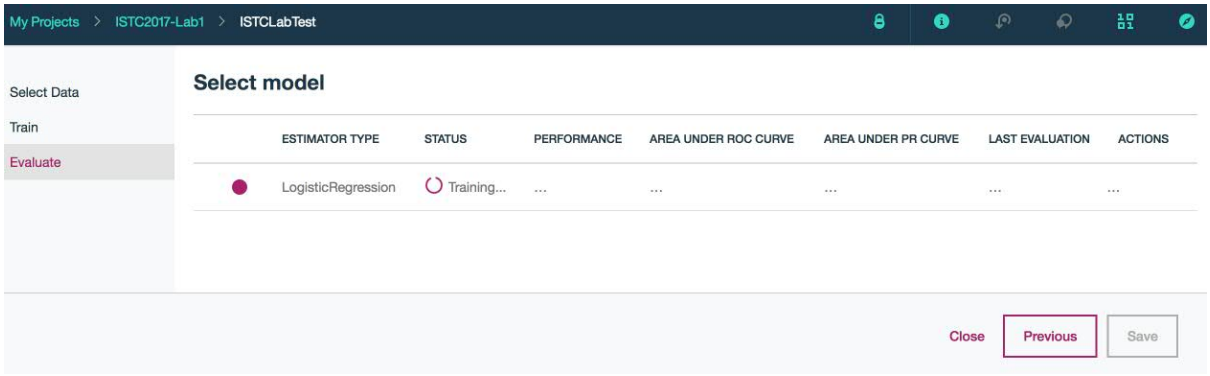
- Once the data is loaded, in the next page user can select the “label column” and “feature column” and select the which spark ML algorithm and technique to be used in case of Manual data preparation.

- In case of “Automatic Data Preparation” technique is auto selected based on the “label column” ,“feature column” and “dataset” etc.

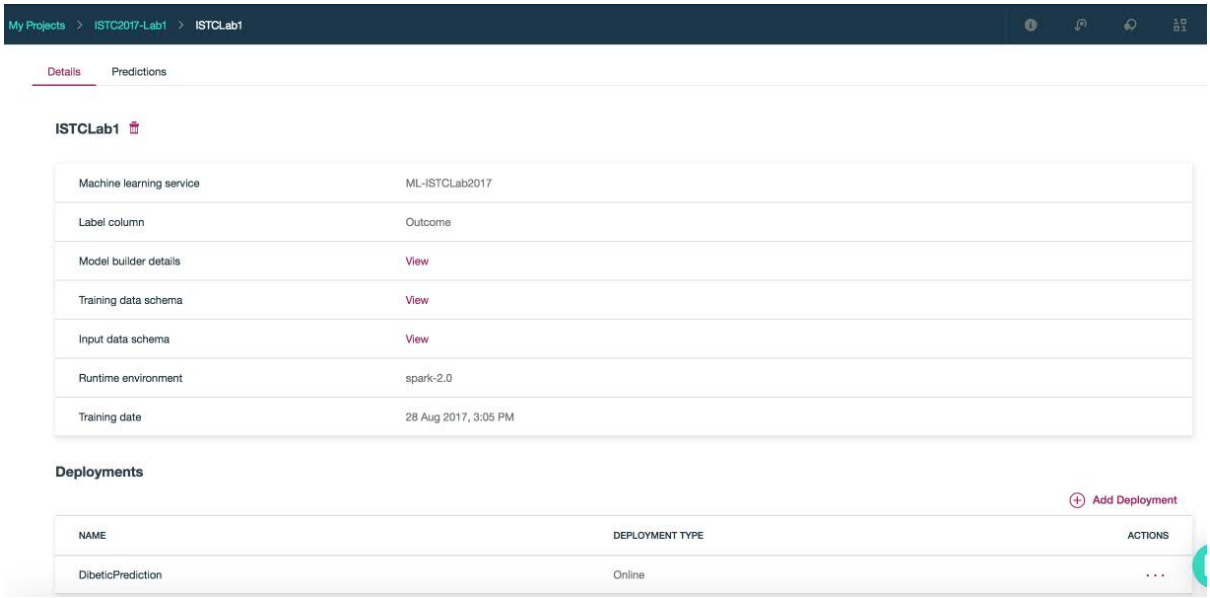
- Adjust the amount of input data that you want to use for “Train” “Test” and “Hold-out” and click on the Next button.



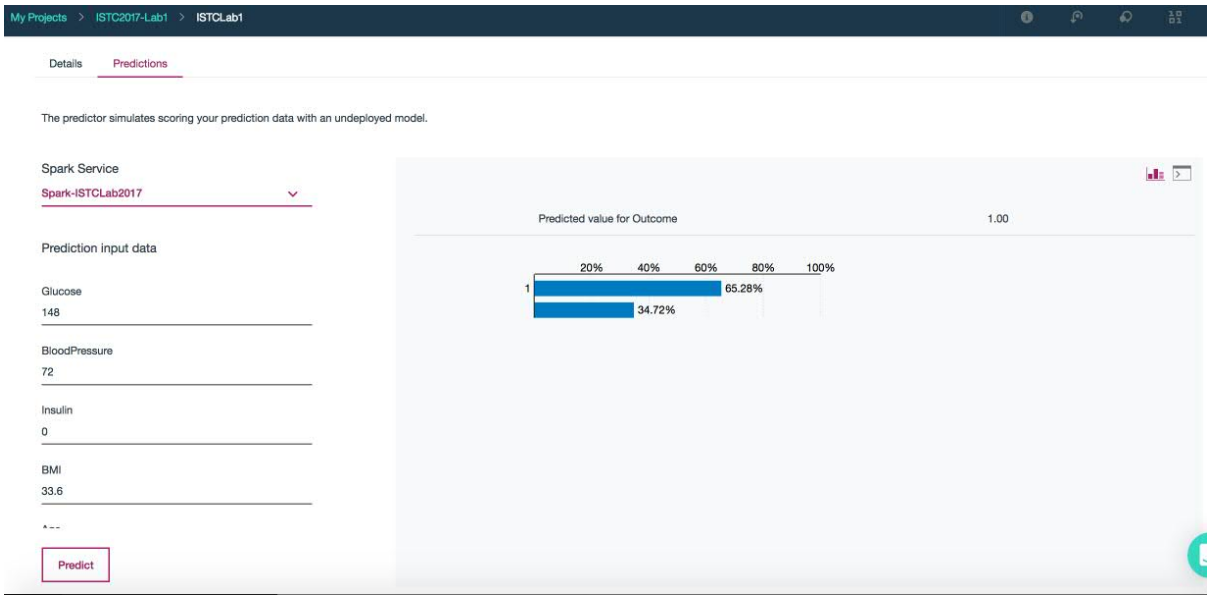
- In the next page Model will be trained and evaluated. User can save the trained model by clicking on “Save”.



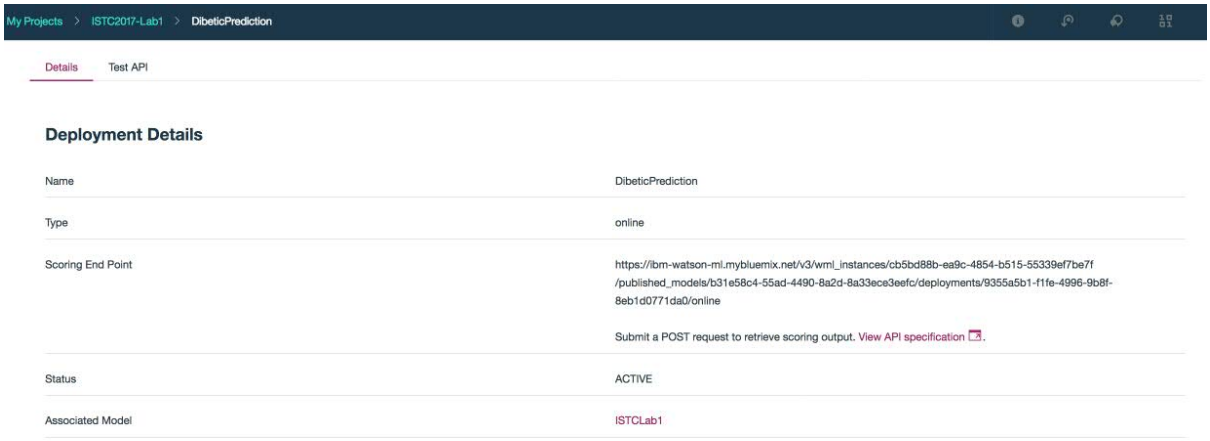
- User can deploy the model by clicking on “Add Deployment” and Select type as “Online”



- Before using the online deployed model, user can test the prediction with test datasets from the “predictions” section in below page.



- Open the online deployments that just deployed to view the online scoring endpoint for integrating in user application or stand-alone online scoring using CURL.


My Projects > ISTC2017-Lab1 > DibeticPrediction
Details
Test API
Deployment Details
Name
DibeticPrediction
Type
online
Scoring End Point
https://ibm-watson-ml.mybluemix.net/v3/wml_instances/cb5bd88b-ea9c-4854-b515-55339ef7be7f
/published_models/b31e58c4-55ad-4490-8a2d-8a33ece3eefc/deployments/9355a5b1-f1fe-4996-9b8f-
8eb1d0771da0/online
Submit a POST request to retrieve scoring output. View API specification .
Status
ACTIVE
Associated Model
ISTCLab1