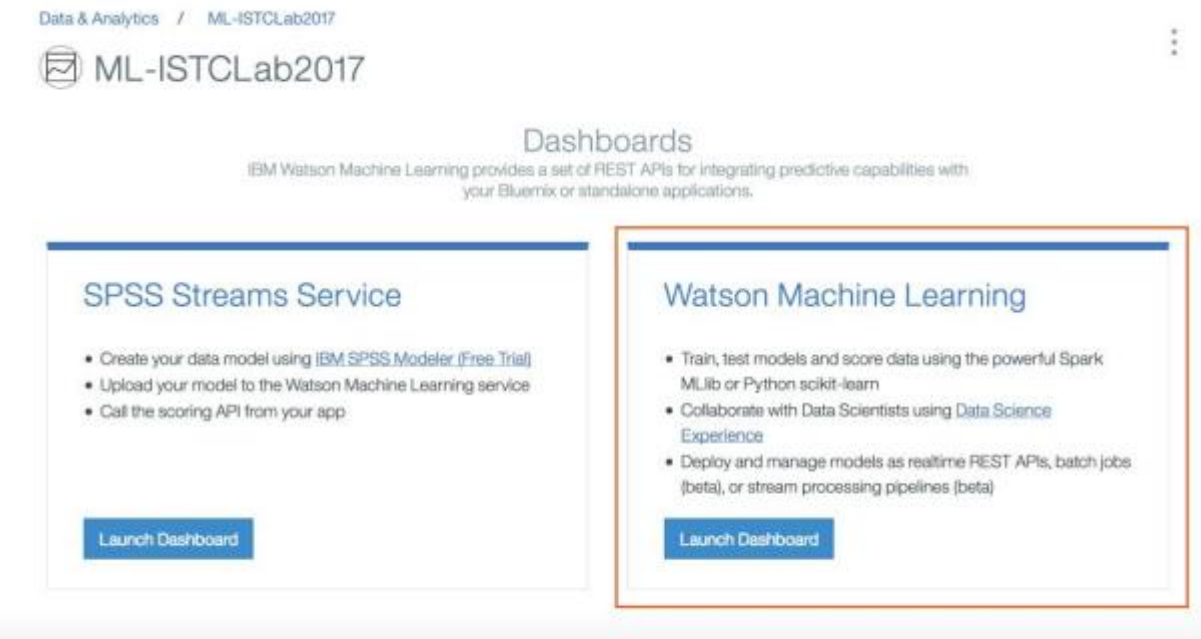
ML Model Building hand-on lab steps:

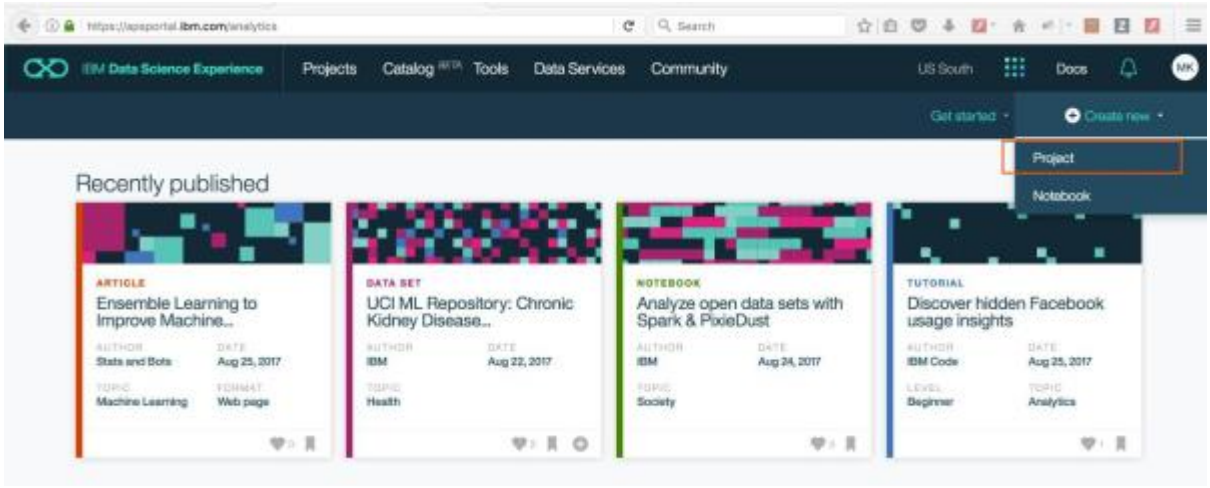
- Log-in in to your Bluemix account → https://console.bluemix.net/ and provision below 3 service instance:

1. Apache Spark
2. Object Storage
3. Machine Learning

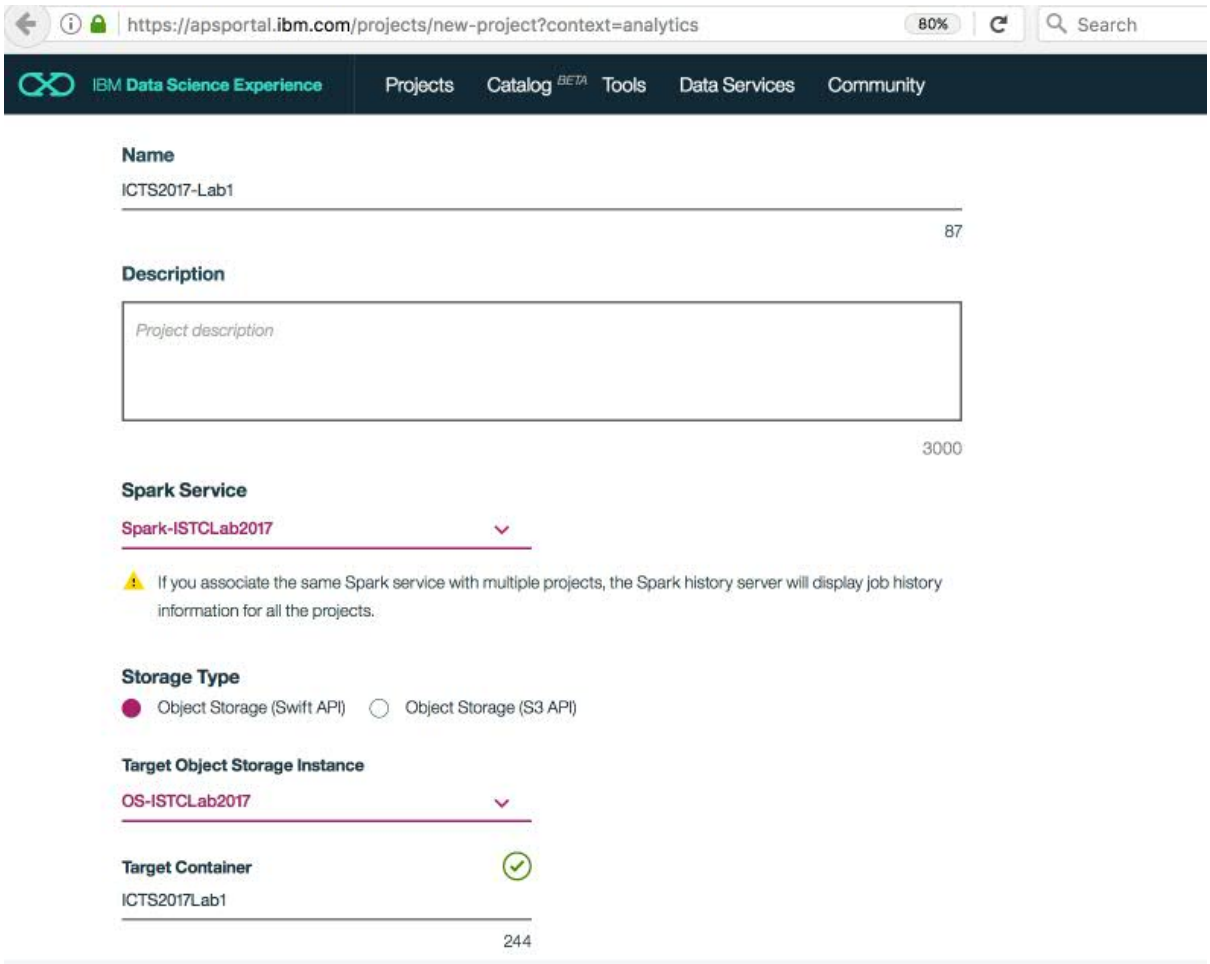
- Open the Machine Learning instance to go to "Data Science Experience" portal for Train, Test and score models using Spark MLib or Python scikit-learn.



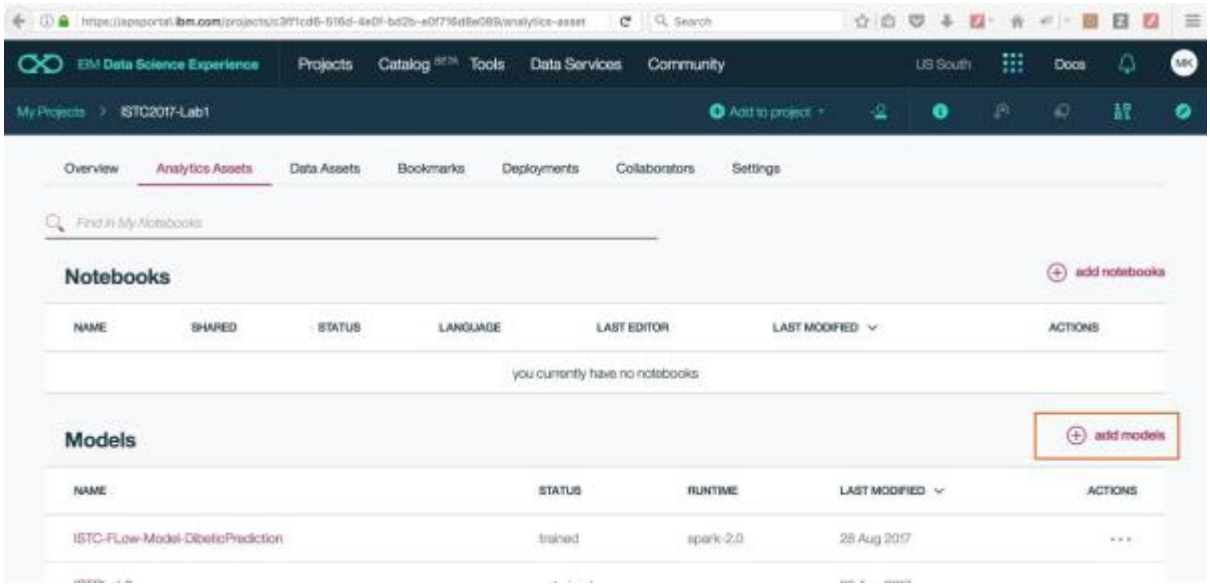
- Launch the Data Science Experience → https://apsportal.ibm.com/ . Click on "Create new" → Project.



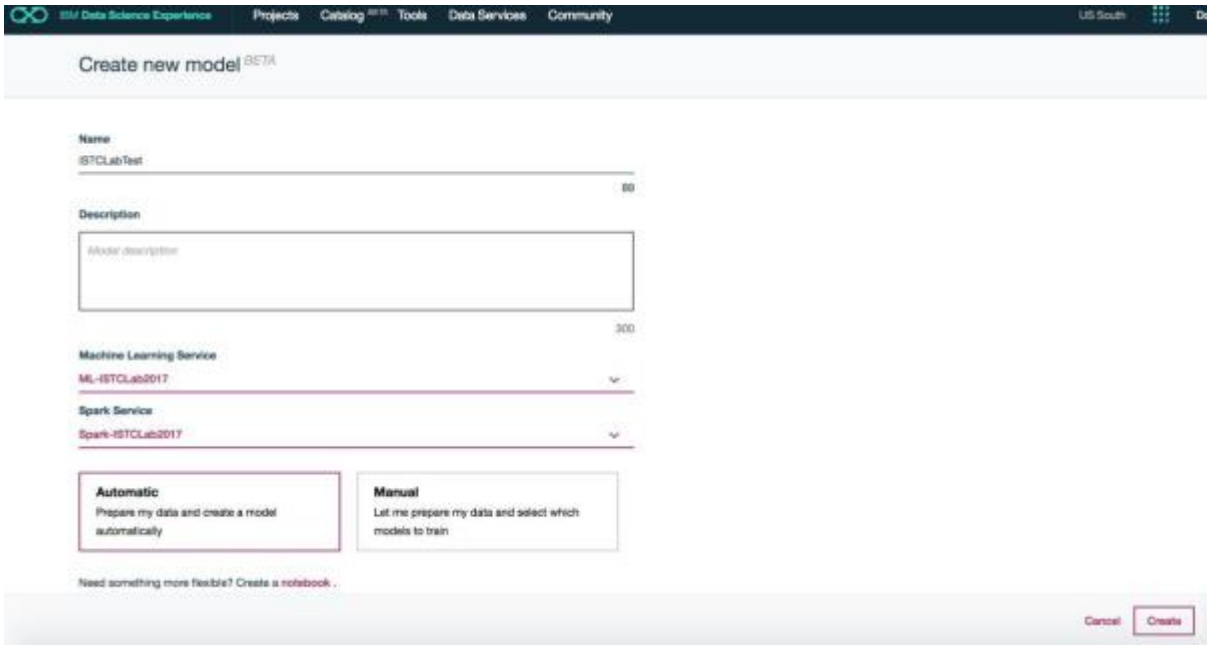
- Provide the “Project name”, “Spark Service” and “Object Storage” Instance in the create project page



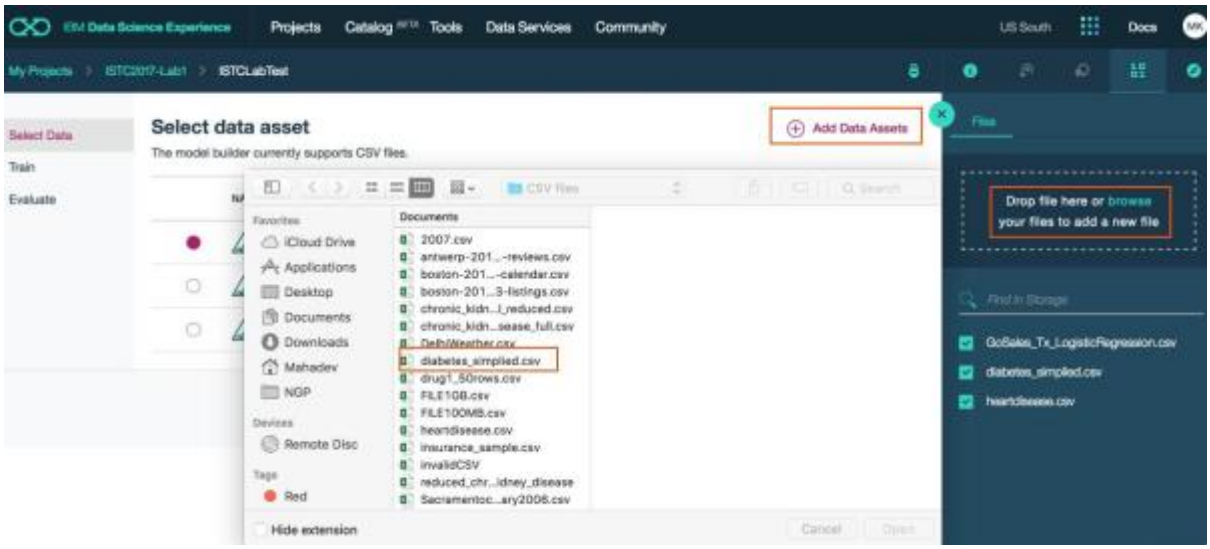
- Once project is created click on “add models” to create a ML models



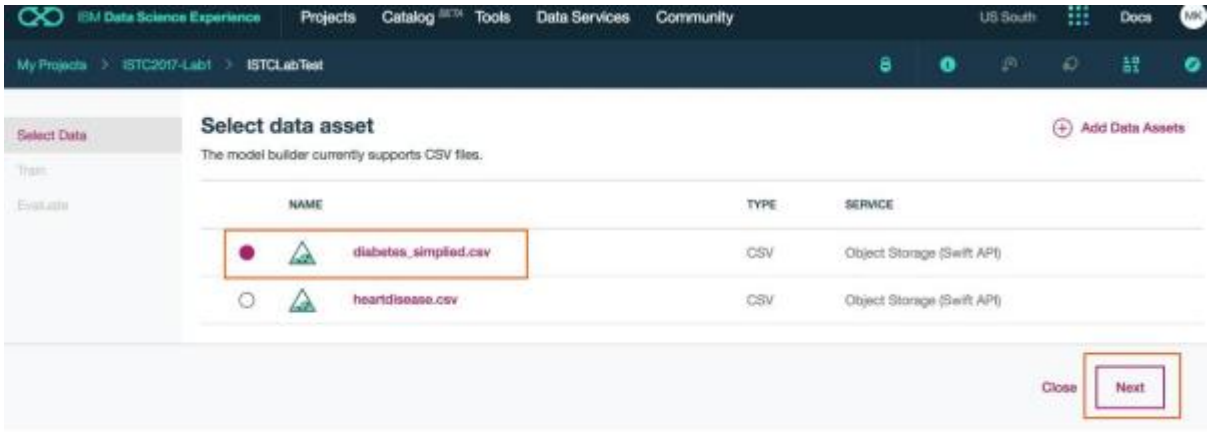
- Provide the “Model name”, “Machine Learning” and “Spark Service” instance name. You can select data preparation as “Automatic” or “Manual” according to your requirement.



- 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”.

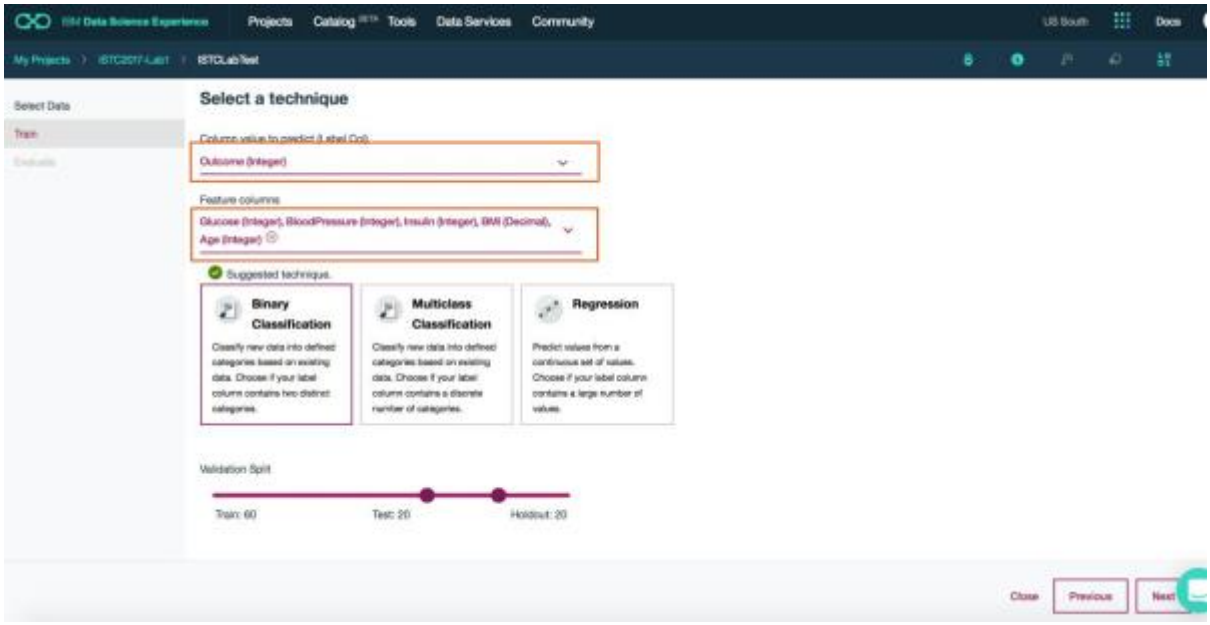


- Once the data set is added to the “Data Assets” it lists in the “Select data asset” page. Now user can select the required data set and click next.

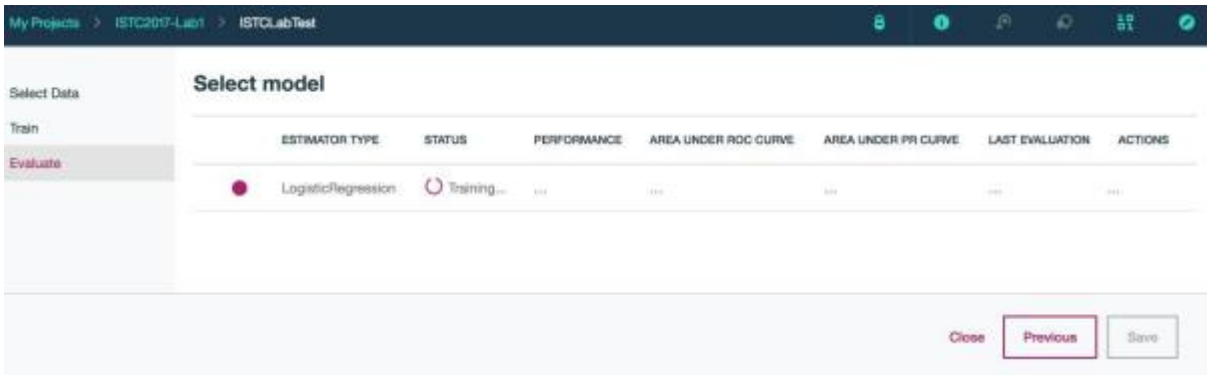


- Once the data is loaded, in the next page user can “label column” and “feature column” and select the which spark ML algorithm and technique to be used in case of Manual data preparation. In case of “Automatic Data Preparation” technique is auto selected based on the “label column” and “feature column” etc.

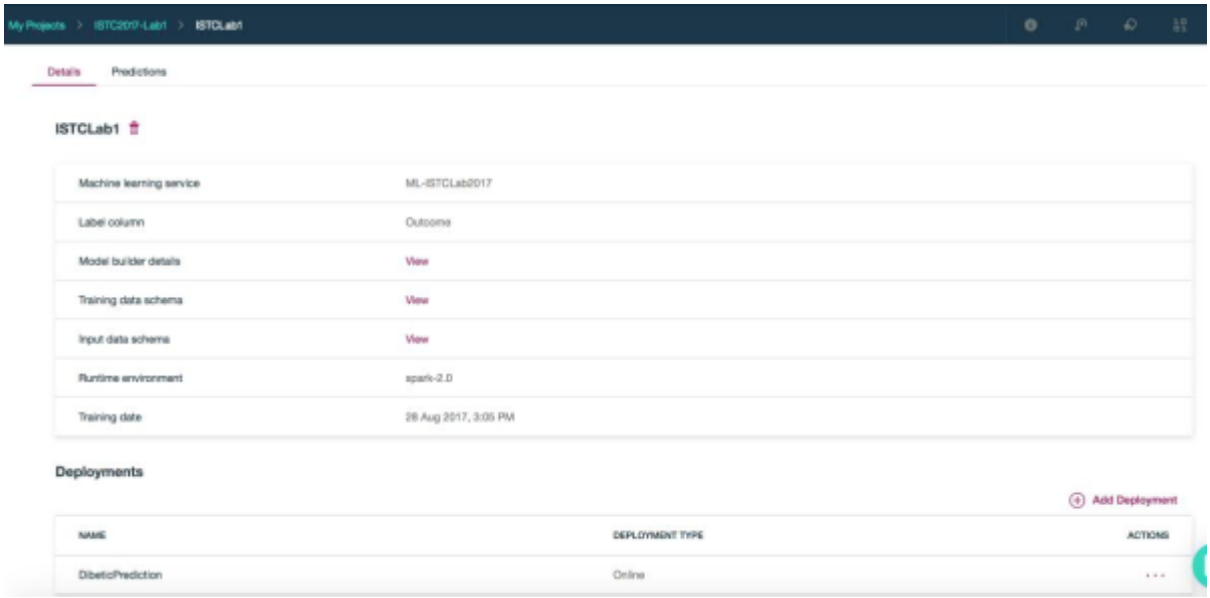
- Adjust the amount of input you want to use for “Train” “Test” and “Hold-out” and click on the Next button.



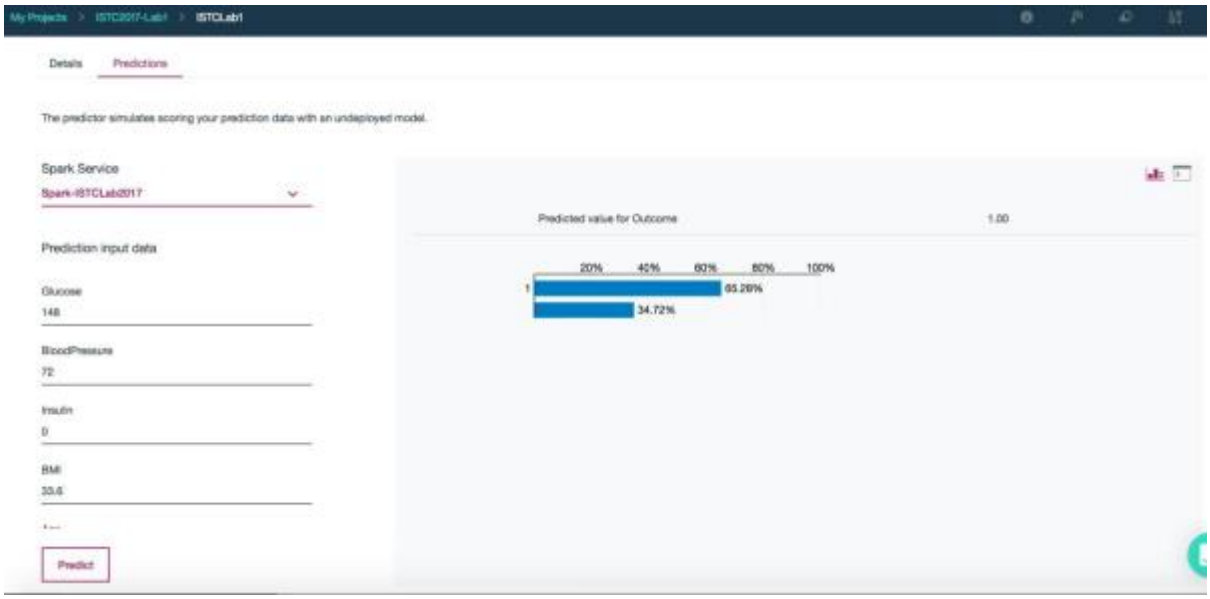
- In the next page Model will be trained and evaluated. User can save the trained model by clicking on “Save”.



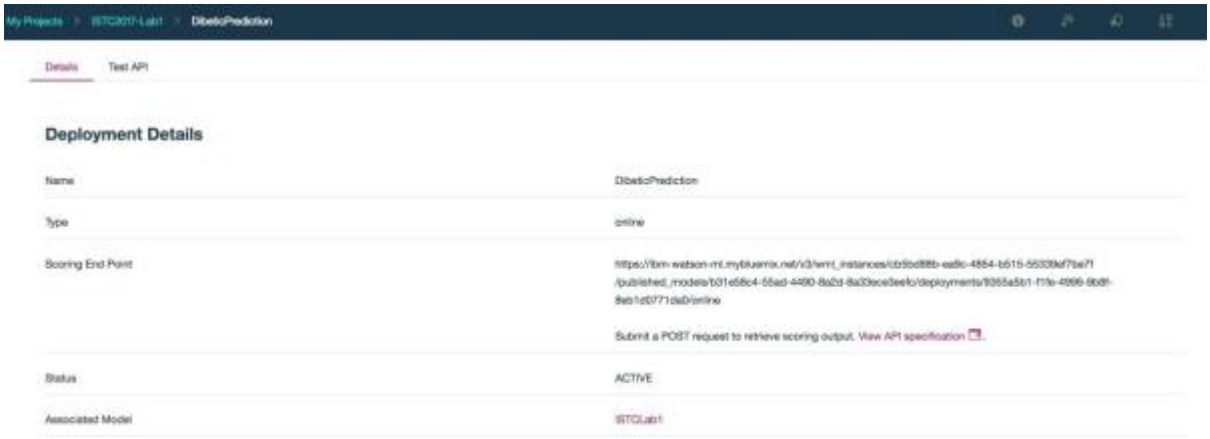
- User can deploy the model by clicking on “Add Deployment” and Select type as “Online”



- 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 > IBTC2017-Lab1 > DiabeticPrediction
Details
Test API
Deployment Details
Name
DiabeticPrediction
Type
online
Scoring End Point
https://ibm-watson-ml.mybluemix.net/v3/wml_instances/cb5bc88b-ea9c-4854-b515-55339af7be71/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
IBTCLab1