## Lab - 10

## **BDA**: Big Data Analysis

AIM: Mining Complex Types of Data

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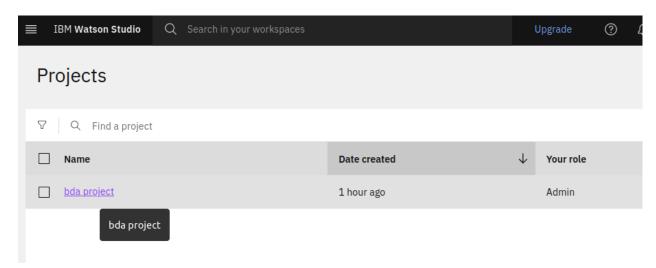
Department: Computer Engineering (M.Tech sem II)

Roll no: MT001

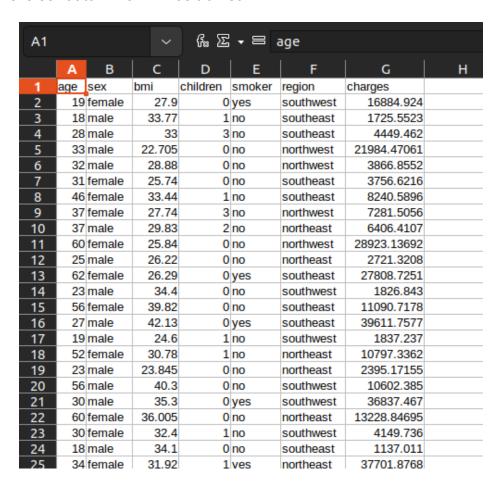
Date: 19 March 2024

## Title: Using IBM WatSon to train data using ML

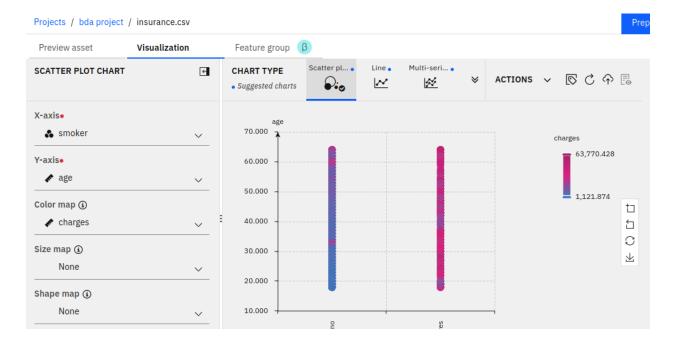
Firstly creating New project on IBM Watson



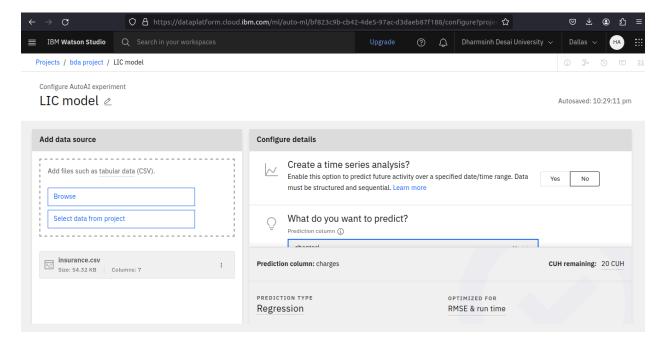
This is our data which will be trained.



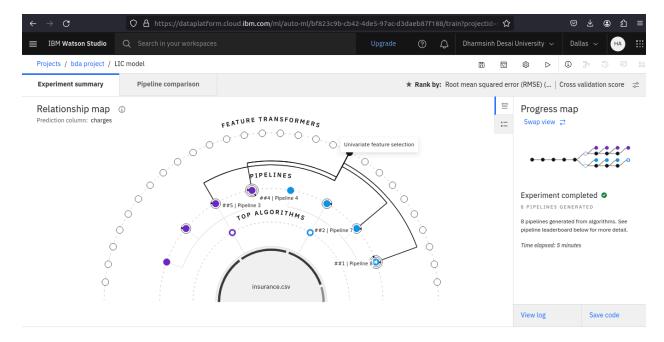
 We can even use this platform to visualize the data we have used to train this model.



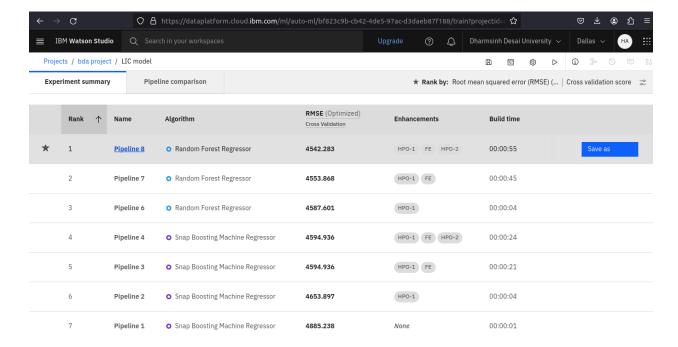
 After Visualizing data, now we are training the data after specifying the output/prediction collumn.



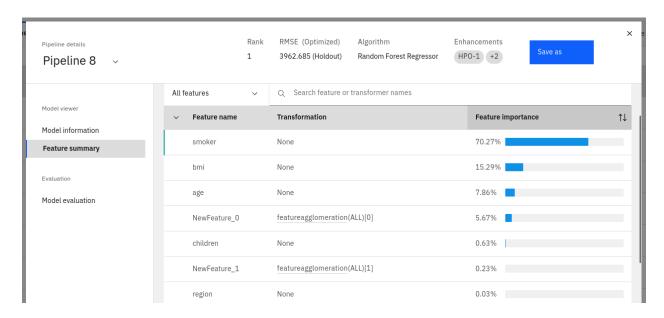
• This platform will use all types of ML methods to train the model by specifying all the kinds of hyper parameters.



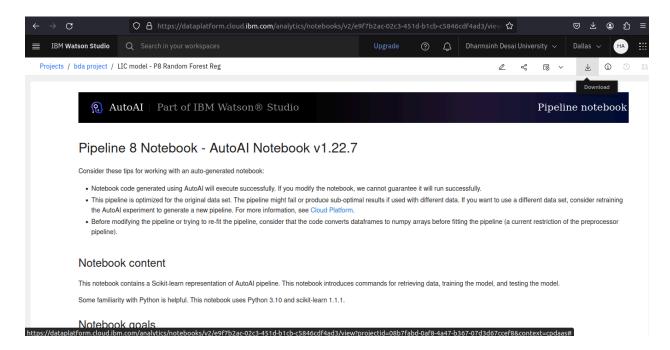
• As you can see, it have trained the various types of models by different pipelines. And it is ranked by the accuracy score of all ML models.



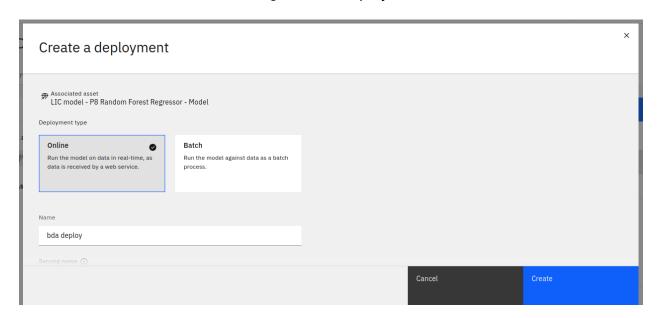
 As we can see Pipeline 8 has the highest accuracy, we can see specifications for that model.



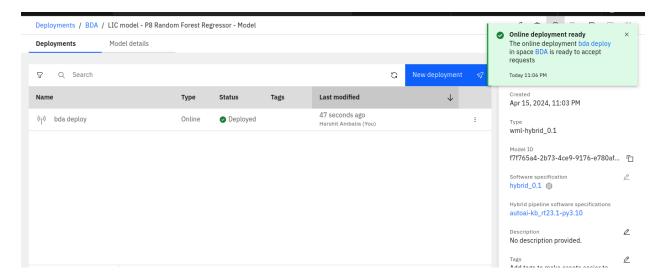
 We can also download the ipynb code/ source code file which is used to train that model.



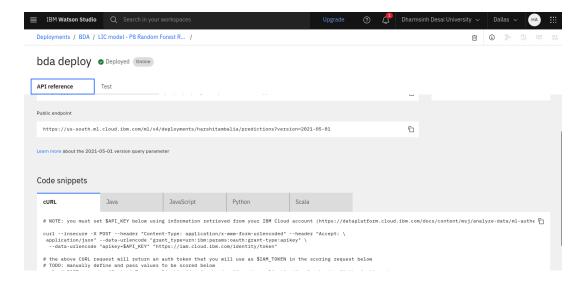
- Now as the model has been created, we can deploy this model online as so that public can use this model.
  - o So now we are creating the new deployment for this model.



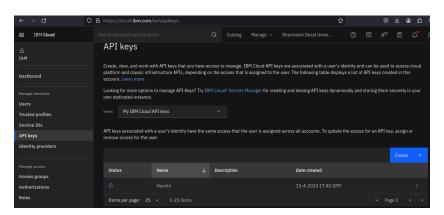
• So now we have created deployment named 'bda deploy'.



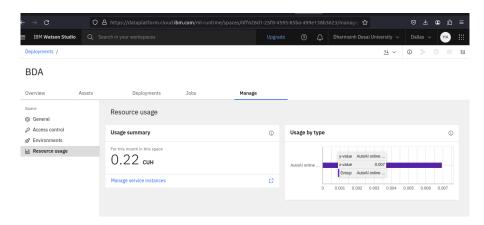
• We can use various language end points to access this model.



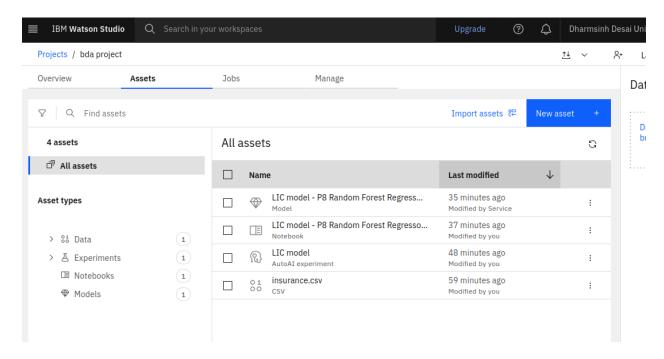
 To access this end points, we have to get the API keys, so now we are creating the API key to access our model through public network.



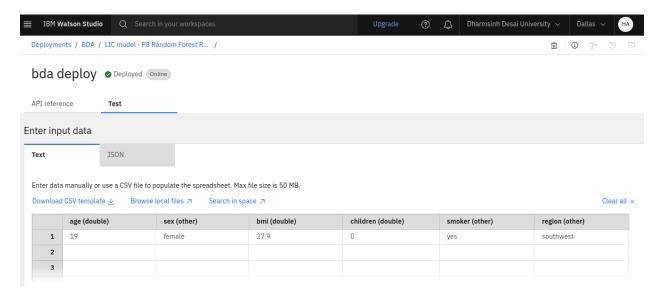
• We can also use 'Resource usage' directy by accessing the feature provided.



• If we go on assets of the project we have created, we can see all the assets that has been used in this project.



• We can use the inbuild testing feature provided by itself. As we can see, it is asking for the data on which our model will try to generate the output.



• After proving the input, we can predict the output generated by this model for given input.

