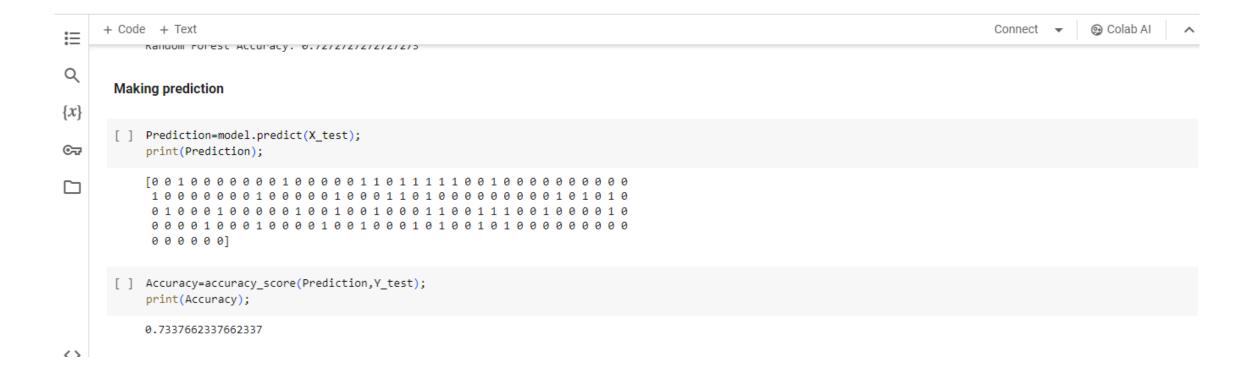


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       Training the model with the help of train test split
Q
{x}
       [ ] X = data.drop("Outcome", axis=1)
            Y = data['Outcome'] # Assuming 'Outcome' is the column name containing labels
            X_train, X_test, Y_train, Y_test = train_test_split(X, Y, test_size=0.2)
©<del>,</del>
Training the model
        [ ] model=LogisticRegression();
            model.fit(X train,Y train)
            /usr/local/lib/python3.10/dist-packages/sklearn/linear_model/_logistic.py:458: ConvergenceWarning: lbfgs failed to converge (status=1):
            STOP: TOTAL NO. of ITERATIONS REACHED LIMIT.
            Increase the number of iterations (max iter) or scale the data as shown in:
<>
                https://scikit-learn.org/stable/modules/preprocessing.html
            Please also refer to the documentation for alternative solver options:
                https://scikit-learn.org/stable/modules/linear_model.html#logistic-regression
\blacksquare
              n_iter_i = _check_optimize_result(
             ▼ LogisticRegression
>_
             LogisticRegression()
```





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∷
       Total no of prediction
Q
       [ ] Total_Diabetes=sum(Prediction);
\{x\}
            print("Total number of people with diabetes:",Total_Diabetes);
©<del>,</del>
            Total number of people with diabetes: 39
Total_non_Diabetes=len(Prediction);
            print("Total number of people with no Diabetes:", Total_non_Diabetes);
            Total number of people with no Diabetes: 154
       *Prediction Visualization *
       [ ] Total=[Total_Diabetes,Total_non_Diabetes];
            Labels=['Diabetes', 'Non_Diabetes'];
<>
            plt.bar(Labels,Total,color=['red','blue']);
            plt.xlabel('Diabetes Status');
\equiv
            plt.ylabel('Total number of people');
            plt.title('Total number of people with and without Diabetes');
>_
            plt.show();
```

