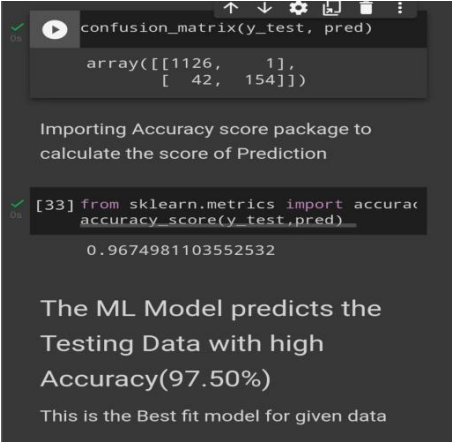
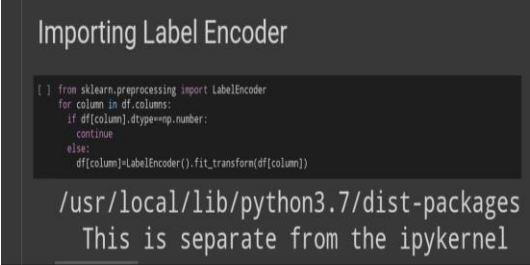


## Project Development Phase Model Performance Test

Date	16 November 2022
Team ID	PNT2022TMID29044
Project Name	Project - Corporate Employee Attrition Analytics
Maximum Marks	10 Marks

### Model Performance Testing:

S No	Parameter	Values	Screenshot
1.	Metrics	<b>Classification Model:</b>  Confusion Matrix - Accuracy - Score- Classification Report	<b>Confusion matrix Accuracy</b>   <p>The screenshot shows a Jupyter Notebook cell with the following content:</p> <pre>confusion_matrix(y_test, pred)</pre> <p>array([[1126, 1],  [ 42, 154]])</p> <p>Importing Accuracy score package to calculate the score of Prediction</p> <pre>[33]: from sklearn.metrics import accuracy_score(y_test, pred)</pre> <p>0.9674981103552532</p> <p>The ML Model predicts the Testing Data with high Accuracy(97.50%) This is the Best fit model for given data</p>
2.	Tune the Model	<b>Hyper parameters</b>  Number of trees - Number of features	<b>Data Wrangling</b>   <p>The screenshot shows a Jupyter Notebook cell with the following content:</p> <pre>from sklearn.preprocessing import LabelEncoder</pre> <pre>for column in df.columns:</pre> <pre>    if df[column].dtype==np.number:</pre> <pre>        continue</pre> <pre>    else:</pre> <pre>        df[column]=LabelEncoder().fit_transform(df[column])</pre> <p>/usr/local/lib/python3.7/dist-packages This is separate from the ipykernel</p>