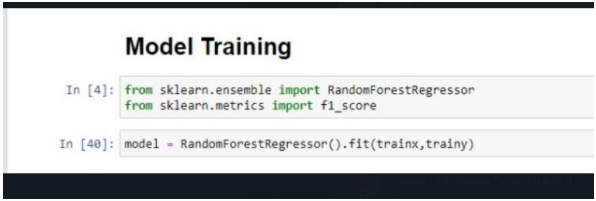
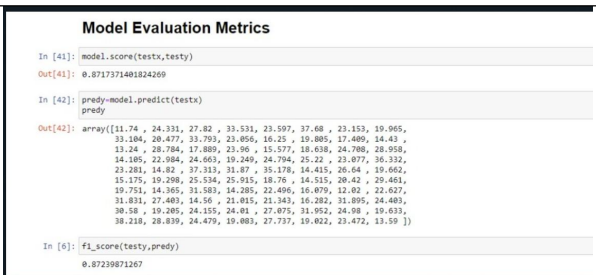


## Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID10856
Project Name	Machine Learning based Vehicle Performance Analyzer
Maximum Marks	10 Marks

### Model Performance Testing:

S.No.	Parameter	Values	Screenshot
1.	Metrics	<b>Regression Model:</b> R2 score -	 <pre>Model Training  In [4]: from sklearn.ensemble import RandomForestRegressor         from sklearn.metrics import f1_score  In [40]: model = RandomForestRegressor().fit(trainx,trainy)</pre>
2.	Accuracy	Training Accuracy - 0.83855	 <pre>Model Evaluation Metrics  In [41]: model.score(testx,testy) Out[41]: 0.8717371401824269  In [42]: predy=model.predict(testx)         predy Out[42]: array([[11.74 , 24.331, 27.82 , 33.531, 23.597, 37.68 , 23.153, 19.065,  33.104, 28.477, 33.793, 23.056, 16.25 , 19.005, 17.409, 14.43 ,  13.24 , 28.784, 17.009, 23.99 , 15.577, 18.658, 24.708, 28.058,  14.185, 22.984, 24.603, 19.249, 24.794, 25.22 , 23.077, 36.332,  23.281, 14.82 , 27.313, 31.87 , 35.178, 14.415, 26.64 , 19.062,  15.175, 19.298, 25.534, 25.915, 18.76 , 14.515, 30.42 , 29.461,  19.751, 14.365, 31.583, 14.285, 22.498, 16.079, 12.82 , 22.627,  31.831, 27.403, 14.58 , 21.015, 21.343, 16.282, 11.895, 24.403,  30.58 , 19.205, 24.155, 24.81 , 27.073, 31.952, 24.98 , 19.033,  38.218, 28.839, 24.479, 19.003, 27.737, 19.022, 23.472, 13.59 ]])  In [6]: f1_score(testy,predy) Out[6]: 0.87239871267</pre>