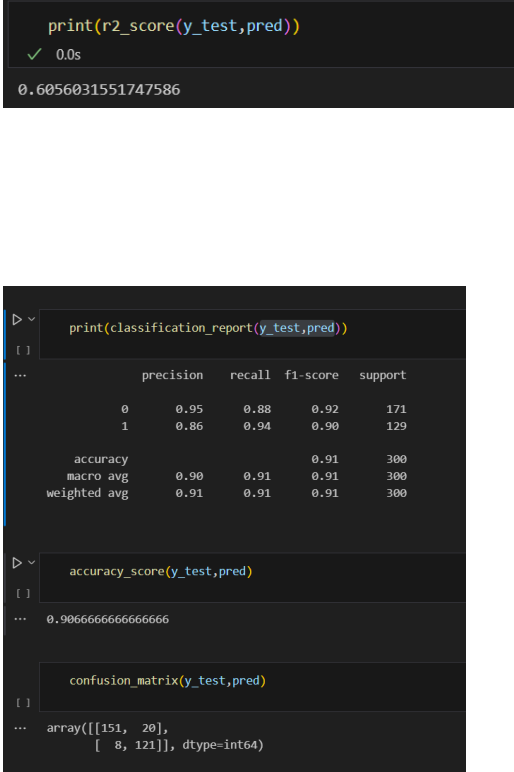
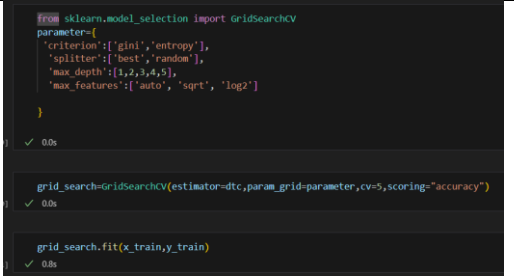


Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	Team-592951
Project Name	Project – Car Purchase Value Prediction
Maximum Marks	10 Marks

Model Performance Testing:

Project team shall fill the following information in model performance testing template.

S.No.	Parameter	Values	Screenshot
1.	Metrics	<p>Regression Model: MAE - , MSE - , RMSE - , R2 score -</p> <p>Classification Model: Confusion Matrix - , Accuray Score- & Classification Report -</p>	 <p>The screenshot shows two code cells. The first cell prints the R2 score for a regression model, resulting in 0.6056031551747586. The second cell prints the classification report for a classification model, showing precision, recall, f1-score, and support for each class, as well as accuracy, macro avg, and weighted avg.</p>
2.	Tune the Model	Hyperparameter Tuning - Validation Method -	 <p>The screenshot shows code for hyperparameter tuning using GridSearchCV. It imports GridSearchCV from sklearn.model_selection, defines a parameter grid, and then uses GridSearchCV to find the best parameters for a Decision Tree Classifier.</p>

			<div><div><div>GridSearchCV</div><div><div>estimator: DecisionTreeClassifier</div><div>DecisionTreeClassifier</div></div></div><div><div>grid_search.best_params_</div><div>✓ 0.0s</div><div><div>{'criterion': 'entropy', 'max_depth': 4, 'max_features': 'sqrt', 'splitter': 'best'}</div></div><div><div>dtc_cv=DecisionTreeClassifier(criterion= 'entropy', max_depth=3, max_features='sqrt', splitter='best') dtc_cv.fit(x_train,y_train)</div><div>✓ 0.0s</div></div><div><div>DecisionTreeClassifier</div><div>DecisionTreeClassifier(criterion='entropy', max_depth=3, max_features='sqrt')</div></div></div></div>
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