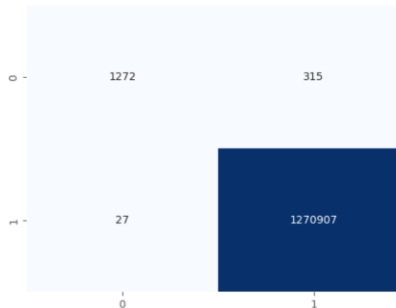


## Project Development Phase Model Performance Test

<b>Date</b>	<b>22-11-2023</b>
<b>Team ID</b>	<b>Team-592036</b>
<b>Project Name</b>	<b>Online Payments Fraud Detection Using ML</b>
<b>Maximum Marks</b>	<b>10 Marks</b>

S.No	Parameter	Values	Screenshot									
1.	Metrics	<p>Regression Model - MAE – 0.047 MSE – 0.056 RMSE – 0.237 R2 Score – 0.830 Classification Model - Confusion Matrix- Accuracy Score – 99% Classification Report-</p>  <p>The confusion matrix shows the following counts:</p> <table><tr><th></th><th>Actual 0</th><th>Actual 1</th></tr><tr><th>Predicted 0</th><td>1272</td><td>315</td></tr><tr><th>Predicted 1</th><td>27</td><td>1270907</td></tr></table>		Actual 0	Actual 1	Predicted 0	1272	315	Predicted 1	27	1270907	<pre>print("MAE :",mean_absolute_error(y_test,y_pred)) print("MSE :",mean_squared_error(y_test,y_pred)) print("RMAE :",np.sqrt(mean_squared_error(y_test,y_pred)) print("R^2 :",r2_score(y_test,y_pred))</pre> <p>MAE : 0.047021943573667714 MSE : 0.05642633228840126 RMAE : 0.23754227473946876 R^2 : 0.8305957324403862</p>
	Actual 0	Actual 1										
Predicted 0	1272	315										
Predicted 1	27	1270907										
2.	Tune the Model	Hyperparameter Tuning - Validation Method -	<pre>print("MAE on test set :",mean_absolute_error(y_temp,y_pred)) print("MSE on test set :",mean_squared_error(y_temp,y_pred)) print("RMAE on test set :",np.sqrt(mean_squared_error(y_temp,y_pr print("R^2 on test set :",r2_score(y_temp,y_pred))</pre> <p>MAE on test set : 0.0 MSE on test set : 0.0 RMAE on test set : 0.0 R^2 on test set : 1.0</p>									