**Project Development Phase**

**Model Performance Test**

**Model Performance Testing:**

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

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No.** | **Parameter** | **Values** | **Screenshot** |
|  | Metrics | **Regression Model:** MAE – 0.012, MSE – 0.12, RMSE – 0.109, R2 score -0.952  **Classification Model:** Confusion Matrix –array([[1977, 32], [ 16, 2029]]) , Accuray Score- 0.9881 & Classification Report - precision recall f1-score support  0 0.99 0.98 0.99 2009  1 0.98 0.99 0.99 2045  accuracy 0.99 4054  macro avg 0.99 0.99 0.99 4054  weighted avg 0.99 0.99 0.99 4054 |  |
|  | Tune the Model | Hyperparameter Tuning – GridSearchCV  Validation Method – k-fold cross-validation |  |