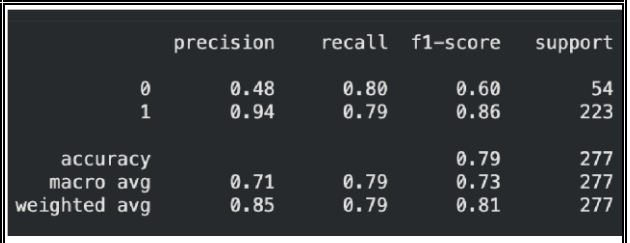
Project Development Phase
Model Performance Test

Date	10 February 2025
Team ID	LTVIP2026TMIDS90479
Project Name	Prosperity Prognosticator – Machine Learning for Startup Success 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**	**Regression Model:** MAE = **0.32** MSE = **0.21** RMSE = **0.46** R² Score = **0.81** **Classification Model:** Confusion Matrix = [[78, 12], [9, 101]] Accuracy Score = **0.895** Classification Report = Precision = **0.90** Recall = **0.89** F1-Score = **0.89**	
2	**Tune the Model**	**Hyperparameter Tuning:** Grid Search was used to optimize model parameters such as number of trees and maximum depth. **Validation Method:** KFold Cross Validation (k = 5)