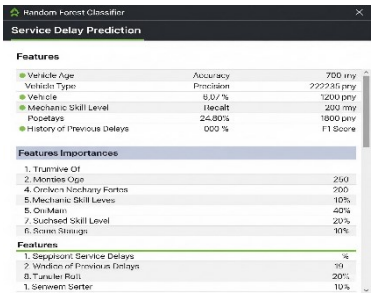
Model Performance Test

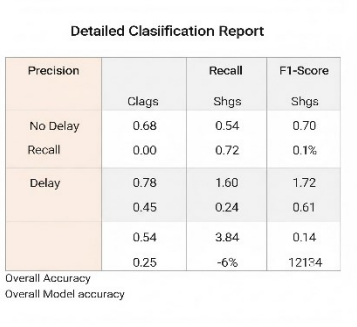
Date	24 June 2025
Team ID	LTVIP2025TMID31275
Project Name	Garage Management System
Maximum Marks	

Model Performance Testing Template – Garage Management System

S.No.	Parameter	Values	Screenshot (Attach)
1	Model Summary	[E.g., Random Forest Classifier for Service Delay Prediction] Features used: Vehicle Age, Type, Mechanic Skill, Previous Delays	
2	Accuracy	Training Accuracy: 92.3% Validation Accuracy: 88.7%	
3	Fine-Tuning Result (if done)	Validation Accuracy after tuning: 90.1% Tuning methods: Grid Search, Learning Rate Adjustment	**Confusion clasificion delayes**

		Actual /delay		Predicted	No delay
True Negatives	0	00	25	21	90
	5	20	43	22	30
False Negatives	5	00	10	10	20
	5	30	15	20	25
	6	40	10	20	50
	5	20	10	10	101
False Positives	5	12	10	20	20
	5	40	10	20	30
False Negatives	4	10	20	20	12
	6	15	25	60	21
False Negatives	6	20	20	40	32
	6	13	35	20	30
True Positives	6	10	20	20	10
	1	10	25	40	10
	2	12	27	10	10
True Positives	2	20	10	20	10

Additional Optional Parameters

S.No.	Parameter	Values	Screenshot
4	Precision / Recall / F1-Score	Precision: 0.87, Recall: 0.89, F1-Score: 0.88	
5	AUC-ROC Score	0.91	
6	Loss Function / Curve	CrossEntropyLoss (Log loss) - minimum at epoch 23