Model Comparison Report

Fit and error measures

Model ddv_logisticregression Decision_Tree_34 Stepwise_Logistic_Regression_DDV	Accuracy	Accuracy_No	Accuracy_Yes	F1	AUC
ddv_logisticregression	0.4898	0.3660	0.6039	0.4076	0.4828
Decision_Tree_34	0.5041	0.4894	0.5176	0.4863	0.4972
Stepwise_Logistic_Regression_DDV	0.5000	0.2340	0.7451	0.3099	0.4644

Model: model names in the current comparison.

Accuracy: overall accuracy, number of correct predictions of all classes divided by total sample number.

Accuracy_[class name]: accuracy of Class [class name] is defined as the number of cases that are **correctly** predicted to be Class [class name] divided by the total number of cases that actually belong to Class [class name], this measure is also known as *recall*.

AUC: area under the ROC curve, only available for two-class classification.

F1: F1 score, 2 * precision * recall / (precision + recall). The *precision* measure is the percentage of actual members of a class that were predicted to be in that class divided by the total number of cases predicted to be in that class. In situations where there are three or more classes, average precision and average recall values across classes are used to calculate the F1 score.

Confusion matrix of Decision Tree 34

	Actual_No	Actual_Yes
Predicted_No	115	123
Predicted_Yes	120	132

Confusion matrix of Stepwise_Logistic_Regression_DDV

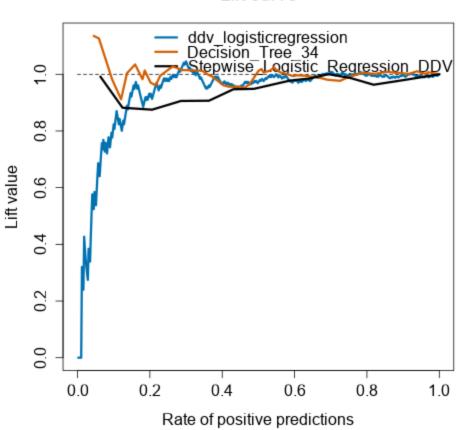
	Actual_No	Actual_Yes
Predicted_No	55	65
Predicted_Yes	180	190

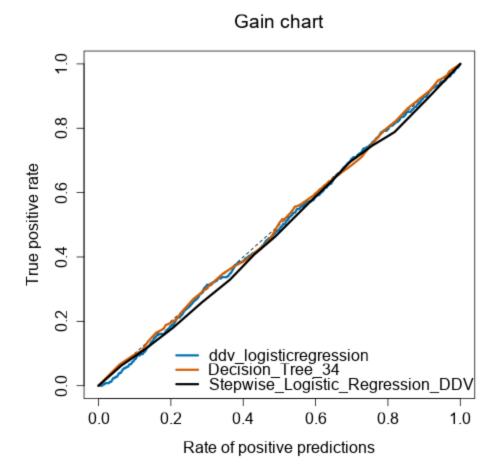
Confusion matrix of ddv_logisticregression

Predicted_No Predicted_Yes	Actual_No	Actual_Yes
Predicted_No	86	101
Predicted_Yes	149	154

Performance Diagnostic Plots







Precision and recall curve

