# **Model Comparison Report**

#### Fit and error measures

Model Log_creditworthy DT_creditworthy DF_creditworthy	Accuracy	F1	AUC	Accuracy_Creditworthy	Accuracy_Non-Creditworthy
Log_creditworthy	0.7800	0.8520	0.7314	0.9048	0.4889
DT_creditworthy	0.7467	0.8273	0.7054	0.8667	0.4667
DF_creditworthy	0.8067	0.8755	0.7455	0.9714	0.4222
Boost_creditworthy	0.7867	0.8632	0.7524	0.9619	0.3778

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 Boost	_creditworthy
---------------------------	---------------

	Actual_Creditworthy	Actual_Non-Creditworthy
Predicted_Creditworthy	101	28
Predicted_Non-Creditworthy	4	17

## Confusion matrix of DF\_creditworthy

	Actual_Creditworthy	Actual_Non-Creditworthy
Predicted_Creditworthy	102	26
Predicted_Non-Creditworthy	3	19

# Confusion matrix of DT\_creditworthy

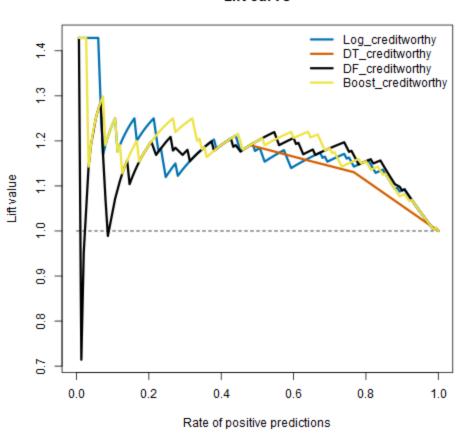
	Actual_Creditworthy	Actual_Non-Creditworthy
Predicted_Creditworthy	91	24
Predicted_Non-Creditworthy	14	21

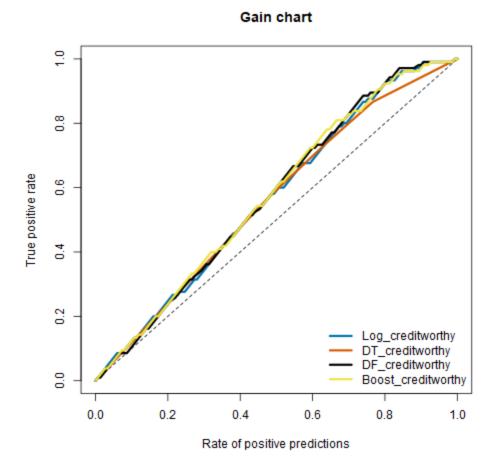
# Confusion matrix of Log\_creditworthy

	Actual_Creditworthy	Actual_Non-Creditworthy
Predicted_Creditworthy	95	23
Predicted_Non-Creditworthy	10	23 22

## **Performance Diagnostic Plots**







#### Precision and recall curve

