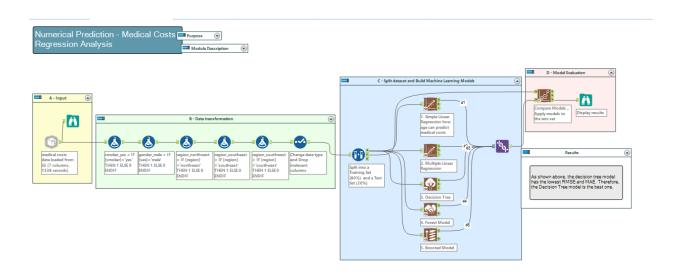
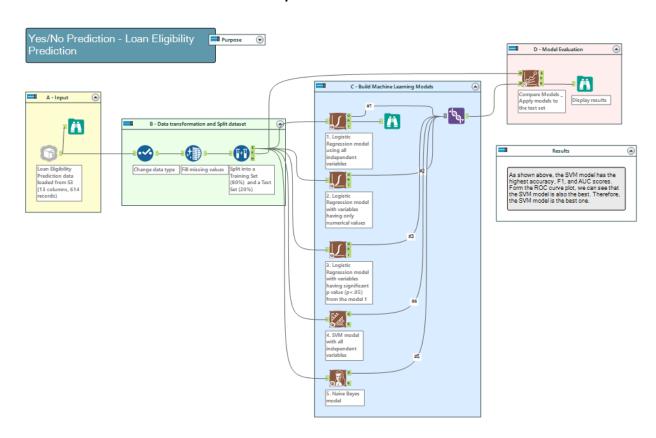
Predictive Modeling with Alteryx

by Qi Sun

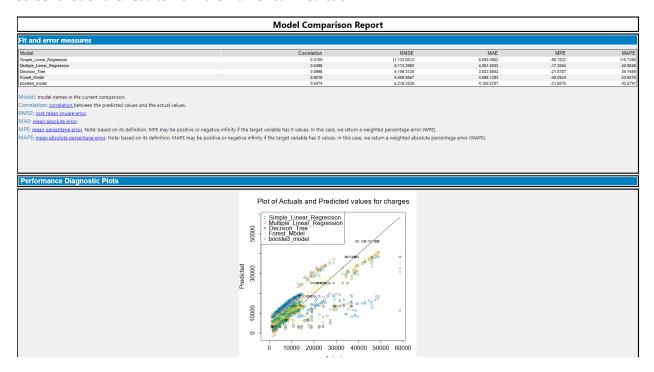
Here is a screenshot of the workflow for Numerical Prediction:



Here is a screenshot of the workflow for Yes/No Prediction:



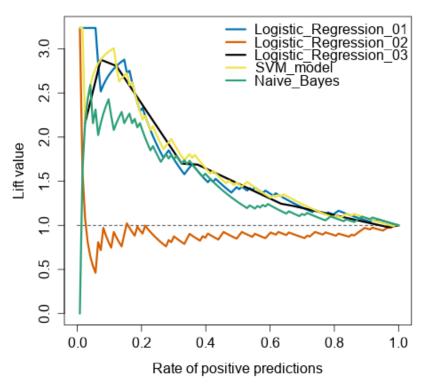
Screenshot of the results from the Numerical Prediction:



Screenshot of the results from the Yes/No Prediction:

Fit and error measures Model Logiste, Registerson, 31 Logiste, Registerson, 22 Syd, model Model: model names in the current comparison. Accuracy_Class name(): accuracy of Class (class name) is defined as the number of cases that are correctly predicted. ACCURACY_Class name(): accuracy of Class (class name) is defined as the number of cases that are correctly predicted. AUC: area under the ROC curve, only available for two-class classification. Fit Fi sore, 2* "precision "recall", (precision - recall), the precision measure is the percentage of actual members of a avarrage precision and average recall values across classes are used to calculate the Fi score. Confusion matrix of Logistic_Regression_01 Predicted_N	0.7805 0.45 0.38089 0.41 0.77805 0.45 0.7886 0.55 0.7480 0.41 to be Class [class name] divid	220 0.4310 200 0.7144 200 0.7557 246 0.68277 246 0.68277 256d by the total number of cases that one in that class divided by the total nu	umber of cases predicted to be in that class. In situ ctual_N 13 25	
Logistic Repression_02 Logistic Repression_02 Logistic Repression_03 Logistic Repression_03 SVM_model Native_Days Model: model names in the current comparison. Accuracy; overall accuracy, number of correct predictions of all classes divided by total sample number. Accuracy_coverall accuracy, overall accuracy of class [class name] is defined as the number of cases that are correctly predicted. Accuracy_coverall accuracy of class [class name] is defined as the number of cases that are correctly predicted. Accuracy_coverall accuracy_number of correct predictions of all classes divided by total sample number. Accuracy_cleass name]: accuracy of class [class name] is defined as the number of cases that are correctly predicted. The prediction of cases that are correctly predicted accuracy prediction and average recall values across classes are used to calculate the F1 score. Confusion matrix of Logistic_Regression_01 Predicted_N	0.7805 0.45 0.38089 0.41 0.77805 0.45 0.7886 0.55 0.7480 0.41 to be Class [class name] divid	000 0 7390 720 0.4310 000 0.7144 000 0.7557 446 0.6827 5ed by the total number of cases that	0 3-221 1 0000 0 3-221 0 3-324 0 3-324 1 actually belong to Class (class name), this measus umber of cases predicted to be in that class. In site ctual_N 13 25 ctual_N 38	oppring the control of the control o
Logiste, Repression, 22 (Logiste, Repression, 23 SMA_model Inside, Bayes Model: model names in the current comparison. Model: model names in the current comparison. Accuracy_Class annel; accuracy of Class (class name) is defined as the number of cases that are correctly predicted. AUC: area under the ROC curve, only available for two-class classification. Fit Fit sorce, 2* precision *recall* (precision + recall). The precision measure is the percentage of actual members of a average precision and average recall values across classes are used to calculate the Fit score. Confusion matrix of Logistic_Regression_01 Predicted_N	0.3089 0.41 0.7805 0.48 0.7806 0.50 0.7480 0.41 to be Class [class name] divid	220 0.4310 200 0.7144 200 0.7557 246 0.68277 246 0.68277 256d by the total number of cases that one in that class divided by the total nu	t actually belong to Class [class name], this measu umber of cases predicted to be in that class. In sit class. In sit 25.	oper oper of the control of the cont
Logistic_Regiression_35 SML_model Inside_Regiression_45 Model: model names in the current comparison. Accuracy_coverall accuracy, number of correct predictions of all classes divided by total sample number. Accuracy_coverall accuracy_of class_class_name_1 is defined as the number of cases that are correctly predicted. Accuracy_coverall accuracy_of class_class_name_1 is defined as the number of cases that are correctly predicted. Accuracy_class_name_1 accuracy_of class_class_name_1 is defined as the number of cases that are correctly predicted. Pfl: F1 score, 2 * precision * recall / (precision + recall). The precision measure is the percentage of actual members of a average precision and average recall values across classes are used to calculate the F1 score. Confusion matrix of Logistic_Regression_01 Predicted_N	0.7805 0.46 0.7886 0.56 0.7480 0.41 to be Class [class name] divid	one 0.7144 000 0.7557 746 0.6827 def total number of cases that class divided by the total number of Acceptance in that class divided by the total number of Acceptance in that class divided by the total number of Acceptance in that class divided by the total number of Acceptance in the class divided by the total number of Acceptance in the class divided by the total number of Acceptance in the class divided by the total number of the class divided by the class divi	0 3421 0 3684 0 3684 0 3684 It actually belong to Class (class name), this measu umber of cases predicted to be in that class. In site ctual_N 13 25	osys ose ose ost ose ose ost ose
SWILmodel SWILmodel SWILmodel Model: model names in the current comparison. Accuracy_Class name]: 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. AUC: area under the ROC curve, only available for two-class classification. Till F1 score, 2 ** precision ** recall / (precision + recall). The precision measure is the percentage of actual members of a average precision and average recall values across classes are used to calculate the F1 score. Conflusion matrix of Logistic_Regression_01 Predicted_N	0.7886 0.50 0.7480 0.41 to be Class [class name] divid	000 0.7557 146 0.6827 seed by the total number of cases that the in that class divided by the total number of the total numbe	0 3-821 0 3-884 It actually belong to Class [class name], this measu umber of cases predicted to be in that class. In sith cutual_N 13 25 CCUUAL_N 38	ose ost
Name_Bayes Model: model and content of correct predictions of all classes divided by total sample number. Accuracy_coverall 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. NUC: area under the NOC curve, only available for two-class classification. "IF! I score, 2 Precision* recall (precision * recall, (precision * recall) (precision * recall) (precision * recall) (precision * recall (precision * recall) (precis	0.7480 0.41 to be Class [class name] divid	146 0.6827 Sed by the total number of cases that the in that class divided by the total number of the to	0 3884 It actually belong to Class (class name), this measurumber of cases predicted to be in that class. In situation of cases predicted to be in that class are cases are	o 91 ure is also known as recall. Luations where there are three or more classes, Actual_ Actual_ Actual_ Actual_
Accuracy; overall accuracy, number of correct predictions of all classes divided by total sample number. Accuracy_class name): accuracy of class (dass name) is defined as the number of cases that are correctly predicted. All cares under the ROC curve, only available for two-class classification. File File scree, 2 * precision * recall*, (precision + recall*, The precision measure is the percentage of actual members of a average precision and average recall values across classes are used to calculate the File score. Confusion matrix of Logistic_Regression_01 Predicted_N		se in that class divided by the total nu	umber of cases predicted to be in that class. In situ ctual_N 13 25	auations where there are three or more classes, Actual_ Actual_ Actual_
FileFilescore, 2 - precision * recall / (precision * recall). The precision measure is the percentage of actual members of a verage precision and average recall values across classes are used to calculate the Filescore. Confusion matrix of Logistic_Regression_01 Predicted_N Predicted_Y Confusion matrix of Logistic_Regression_02 Predicted_N	class that were predicted to b	Ac	ctual_N 13 25 ctual_N 38	Actual_ E Actual_
Confusion matrix of Logistic_Regression_01 Predicted_N Predicted_Y Confusion matrix of Logistic_Regression_02 Predicted_N	class that were predicted to c	Ac	ctual_N 13 25 ctual_N 38	Actual_ E Actual_
Confusion matrix of Logistic_Regression_01 Predicted_N Predicted_Y Confusion matrix of Logistic_Regression_02 Predicted_N Predicted_N Predicted_Y Confusion matrix of Logistic_Regression_03			13 25 cctual_N 38	8 Actual_
Predicted_N Predicted_Y Confusion matrix of Logistic_Regression_02 Predicted_N Predicted_Y Confusion matrix of Logistic_Regression_03 Predicted_N Predicted_N			13 25 cctual_N 38	8 Actual_
Predicted_N Predicted_Y Confusion matrix of Logistic_Regression_02 Predicted_N Predicted_V Confusion matrix of Logistic_Regression_03 Predicted_N Predicted_N			13 25 cctual_N 38	8 Actual_
Predicted_Y Confusion matrix of Logistic_Regression_02 Predicted_N Predicted_Y Confusion matrix of Logistic_Regression_03 Predicted_N Predicted_N			13 25 cctual_N 38	8 Actual_
Predicted_Y Confusion matrix of Logistic_Regression_02 Predicted_N Predicted_Y Confusion matrix of Logistic_Regression_03 Predicted_N Predicted_N		Ac	25 ctual_N 38	E Actual_
Predicted_N Predicted_Y Confusion matrix of Logistic_Regression_03 Predicted_N Predicted_N Predicted_N		Ac	ctual_N 38	Actual_
Predicted_N Predicted_Y Confusion matrix of Logistic_Regression_03 Predicted_N		Ac	38	
Predicted_Y Confusion matrix of Logistic_Regression_03 Predicted_N		Ac	38	
Predicted_Y Confusion matrix of Logistic_Regression_03 Predicted_N				8
Confusion matrix of Logistic_Regression_03 Predicted_N				
Predicted_N			0	
		Ac	.ctual_N	Actual_
Predicted_Y			13	
			25	8
Confusion matrix of Naive_Bayes				
		Ac	ctual N	Actual
Predicted_N			14	_
Predicted_Y			24	79
Confusion matrix of SVM model				
		Ac	ctual N	Actual
Predicted_N			13	7,000
Predicted_Y			25	8





Gain chart

