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Model Comparison

Champion	Name	Algorithm Name	KS (Youden)
true	Forest	Forest	0.5906
false	Logistic Regression	Logistic Regression	0.5829
false	Decision Tree	Decision Tree	0.5608
Accuracy	Average Squared Error	Area Under ROC	Cumulative Lift
0.9376	0.0570	0.8234	6.1729
0.9332	0.0598	0.8128	6.0126
0.9353	0.0584	0.8115	5.9124
Cumulative Captured Response Percentage	Cutoff	Data Role	Depth
61.7290	0.5000	VALIDATE	10
60.1263	0.5000	VALIDATE	10
59.1238	0.5000	VALIDATE	10
F1 Score	False Discovery Rate	False Positive Rate	Gain
0.6594	0.0220	0.0015	5.1729
0.6487	0.1029	0.0080	5.0126
0.6584	0.0825	0.0064	4.9124
Gini Coefficient	ROC Separation	Lift	Misclassification Rate
0.6468	0.4958	4.1379	0.0624
0.6256	0.5000	4.1671	0.0668
0.6229	0.5070	3.9074	0.0647

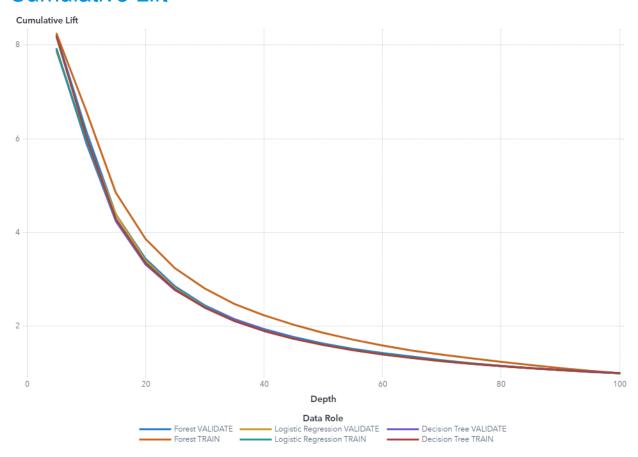
Multi-Class Log Loss	Misclassification at Cutoff	Misclassification Rate (Event)	Number of Observations
0.2250	0.0624	0.0624	16,967
0.2379	0.0668	0.0668	16,967
0.2516	0.0647	0.0647	16,967

Root Average	Captured
Squared Error	Response
	Percentage
0.2388	20.6897
0.2446	20.8354
0.2417	19.5371

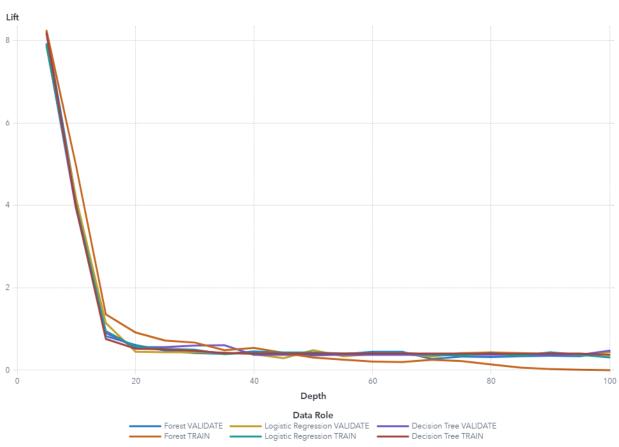
Properties

	-
Property Name	Property Value
selectionCriteriaCla ss	Kolmogorov- Smirnov statistic (KS)
selectionCriteriaInte rval	Average squared error
selectionTable	Validate
selectionDepth	10
cutoff	0.50

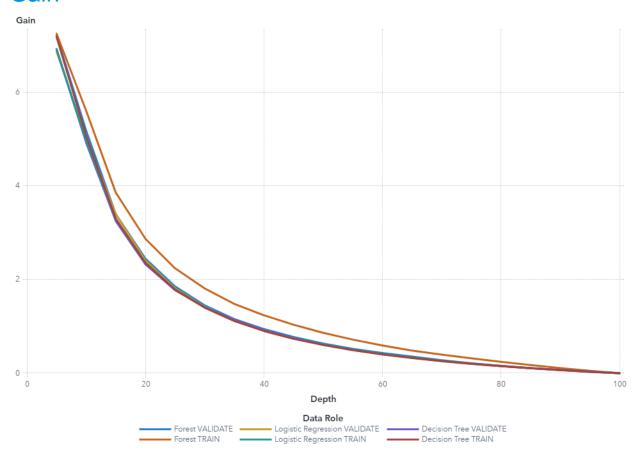
Cumulative Lift



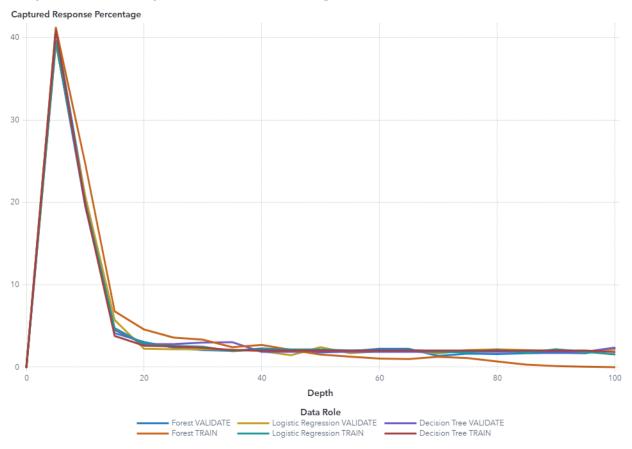




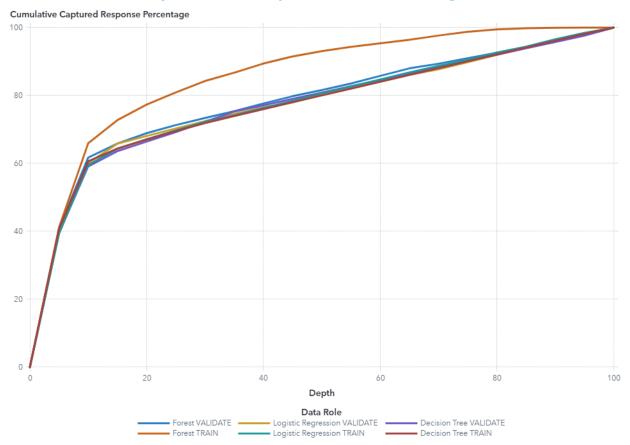
Gain



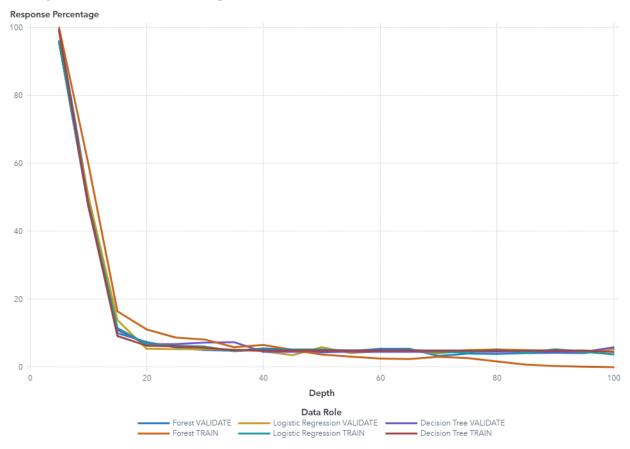
Captured Response Percentage



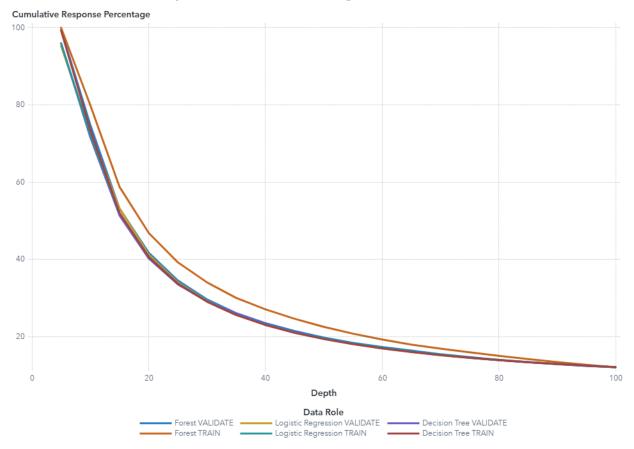
Cumulative Captured Response Percentage



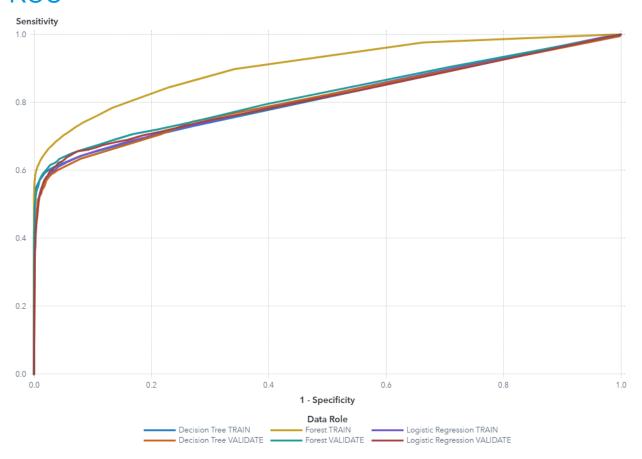
Response Percentage



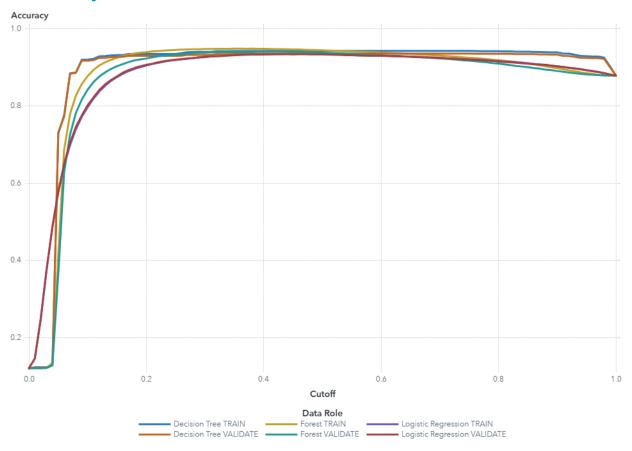
Cumulative Response Percentage



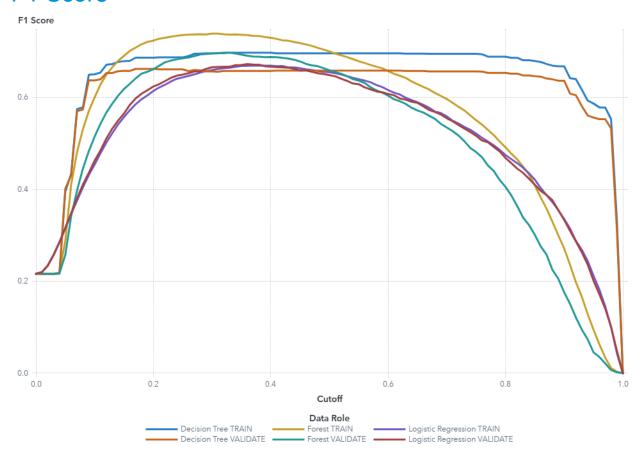
ROC



Accuracy



F1 Score



Fit Statistics

Statistics Label	TRAIN_Forest	VALIDATE_Forest	TRAIN_Logistic_R egression
Area Under ROC	0.9057	0.8234	0.8137
Average Squared Error	0.0499	0.0570	0.0599
Divisor for ASE	39,590	16,967	39,590
Formatted Partition	1	0	1
Gamma	0.8482	0.6954	0.6484
Gini Coefficient	0.8113	0.6468	0.6274
KS (Youden)	0.6573	0.5906	0.5695
KS at User- Specified Cutoff	0.5401	0.4958	0.5061
KS Cutoff	0.1100	0.1800	0.2300
Misclassification Rate	0.0561	0.0624	0.0656
Misclassification Rate (Event)	0.0561	0.0624	0.0656
Misclassification Rate at KS Cutoff (Event)	0.1067	0.0820	0.0856
Multi-Class Log Loss	0.1976	0.2250	0.2377
Number of Observations	39,590	16,967	39,590
Partition Indicator	1	0	1
Root Average Squared Error	0.2233	0.2388	0.2448
Target Name	churn	churn	churn
Tau	0.1730	0.1379	0.1338

VALIDATE_Logisti	TRAIN_Decision_	VALIDATE_Decisi
c_Regression	Tree	on_Tree

VALIDATE_Logistic_Regression	TRAIN_Decision_ Tree	VALIDATE_Decisi on_Tree
0.8128	0.8112	0.8115
0.0598	0.0527	0.0584
16,967	39,590	16,967
0	1	0
0.6465	0.7811	0.7718
0.6256	0.6223	0.6229
0.5829	0.5762	0.5608
0.5000	0.5419	0.5070
0.2000	0.1200	0.0900
0.0668	0.0577	0.0647
0.0668	0.0577	0.0647
0.0936	0.0717	0.0828
0.2379	0.2107	0.2516
16,967	39,590	16,967
0	1	0
0.2446	0.2296	0.2417
churn	churn	churn
0.1334	0.1327	0.1328