

IS-655 Lab Week#14 Models Build & Comparison 00000034000

Creation Date: Monday, May 30, 2022 11:30:41 AM

Author: willi.brordus@student.umn.ac.id

IS-655 Lab Week#14 00000034000-WillibrordusBayu

Contents

IS-655 Lab Week#14 Models Build & Comparison 00000034000

MODEL SELECTION & SCORING 1

Model comparison 1 1.1

Info Bar Text 1.2

Fit Statistic 1.3

Lift 1.4

Appendix 2

A1.1 - Fit Statistic 2

Expanded Pages 3

Model comparison 1 Supplement 1 3

Model comparison 1 Supplement 2 4

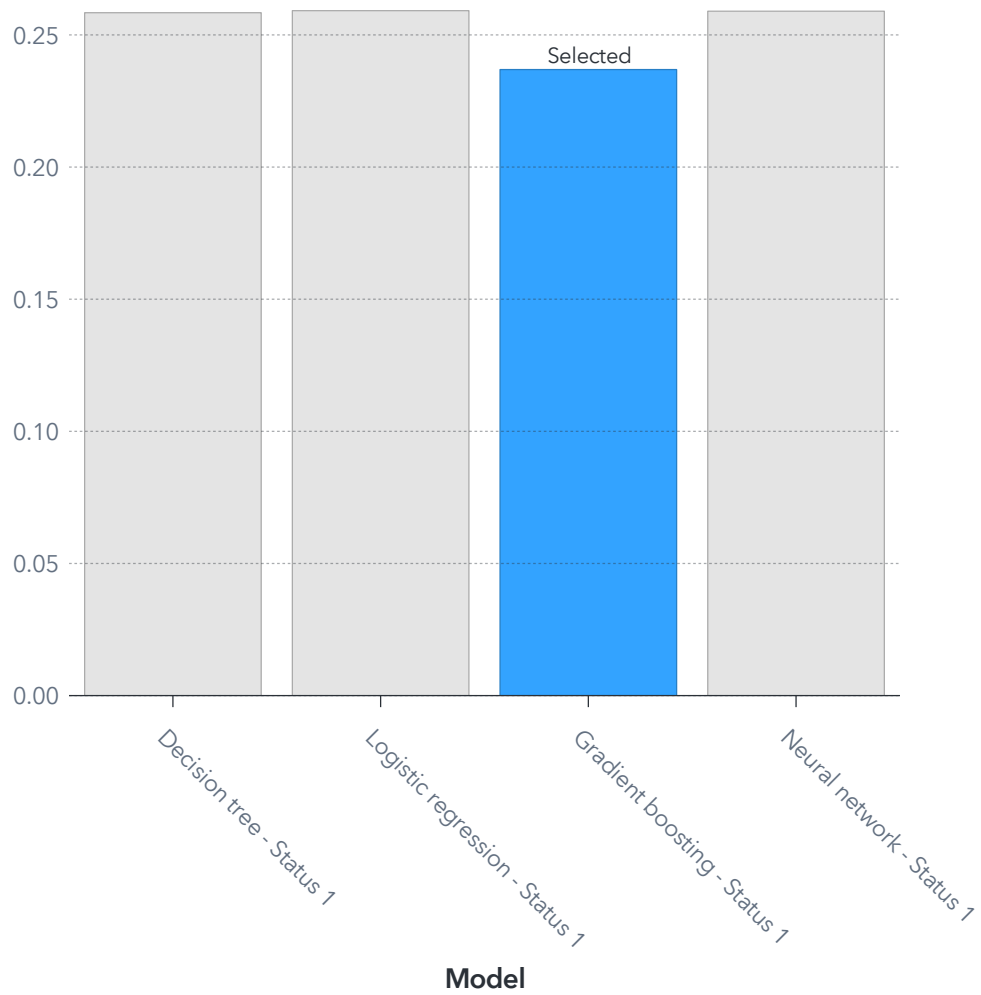
MODEL SELECTION & SCORING



Model Comparison **Status** (event=Dead)

Fit Statistic

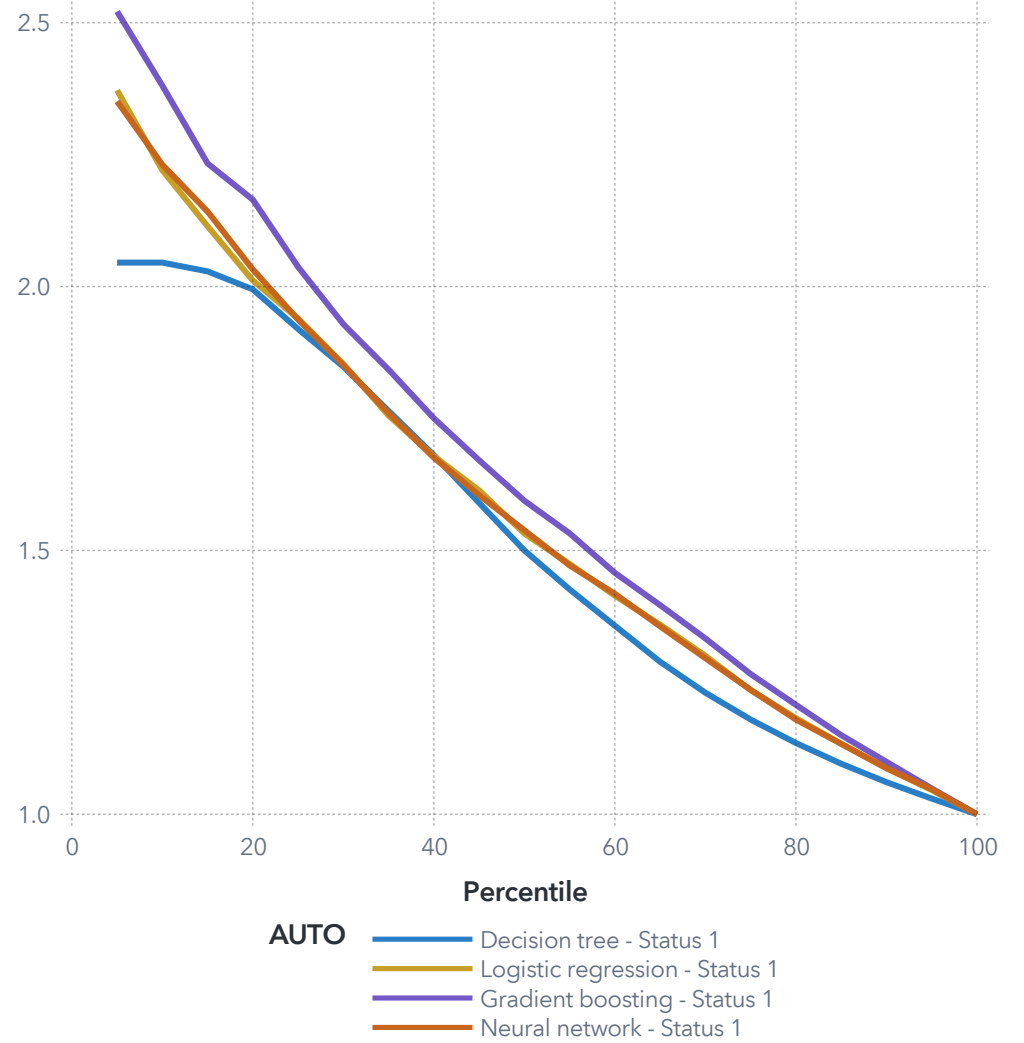
Misclassification Rate (Event)



⚠ A1.1

Lift

Cumulative Lift



Appendix


A1.1 Fit Statistic

Warnings: Number of observations for all models do not match.

Model comparison 1 Supplement 1

Selected	Model	Visualization Type	Number Of Observations	Percentile	Prediction cutoff	C Statistic	Cumulative % Captured	Cumulative % Events	Cumulative Lift	F1 Score	FDR	FPR	Gain	Gamma	Gini	KS (Youden)	Lift	Misclassification Rate (Event)	Tau ^{✖✖}
No	Decision tree - Status 1	Decision Tree	5,209	5	0.5	0.763	10.227	78.019	2.0455	0.626	0.300	0.150	1.045	0.615	0.526	0.440	2.0455	0.258	0.248
No	Logistic regression - Status 1	Logistic Regression	5,039	5	0.5	0.795	11.860	90.079	2.3720	0.638	0.320	0.173	1.372	0.595	0.590	0.446	2.3720	0.259	0.278
Yes	Gradient boosting - Status 1	Gradient Boosting	5,209	5	0.5	0.828	12.607	96.169	2.5213	0.661	0.270	0.138	1.521	0.662	0.657	0.489	2.5213	0.237	0.310
No	Neural network - Status 1	Neural Network	5,039	5	0.5	0.794	11.755	89.286	2.3511	0.629	0.310	0.159	1.351	0.594	0.588	0.440	2.3511	0.259	0.277

Model comparison 1 Supplement 2

Variable	Decision tree - Status 1 Rank	Logistic regression - Status 1 Rank	Gradient boosting - Status 1 Rank	Neural network - Status 1 Rank	Decision tree - Status 1 Importance	Logistic regression - Status 1 Importance	Gradient boosting - Status 1 Importance	Neural network  Status 1 Importance
AgeAtStart	1	1	1		429.879905	0.000000	32.599640	
BP_Status	2	3	5		58.634712	0.000000	4.900191	
Smoking	3	2	3		40.971163	0.000000	5.908914	
Sex	4	4	7		26.158751	0.000000	3.207808	
Height	5	6	6		4.333391	0.092262	4.518539	
Cholesterol	6	5	2		0.000000	0.033923	6.620736	
Weight	7	7	4		0.000000	0.104440	5.729652	