Diamonds

Francisco Arrieta, Emily Schmidt and Lucia Camenisch

Diamonds 2022-12-21

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1 Data Exploration

1.1 Dimension Summary

1.2 Missing Values

c("LM_complete", "LM_forward_complete", "LM_backward_complete", "LM_stepwise_complete", "LM_CpAIC_complete", "LM_minus_corr", "LM_forward_minus_corr", "LM_backward_minus_corr", "LM_stepwise_minus_corr", "LM_CpAIC_minus_corr"), c("LM_complete", "LM_forward_complete", "LM_backward_complete", "LM_stepwise_complete", "LM_CpAIC_complete", "LM_minus_corr", "LM_forward_minus_corr", "LM_stepwise_minus_corr", "LM_cpAIC_minus_corr"),

Table 1: Predictors used in each linear model

Model	Cut	Color	Clarity	Carat	Length	Width	Depth	Depth Ratio	Table
LM_complete	Χ	Х	Х	Х	X	Х	X	Х	Х
LM_forward_complete	Х	Х	Х	Х	Х	Х	Х	Х	Х
LM_backward_complete	Х	Х	Х	Х	Х		Х	Х	
LM_stepwise_complete	Х	Х	Х	Х	Х		Х	Х	
LM_CpAIC_complete	Х	Х	Х	Х	Х		Х	Х	
LM_minus_corr	Х	Х	Х	Х				Х	Х
LM_forward_minus_corr	Х	Х	Х	Х				Х	Х
LM_backward_minus_corr	Х	Х	Х	Х				Х	
LM_stepwise_minus_corr	Х	Х	Х	Х				Х	
LM CpAIC minus corr	Х	Х	Х	Х				Х	

	ME	RMSE	MAE	MPE	MAPE	
k = 1						
k = 4						

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Model	Cut	Color	Clarity	Carat	Length	Width	Depth	Depth Ratio	Table
LM_complete	Χ	Χ	Χ	Χ	Х	Х	Х	Х	Х
LM_forward_complete	X	X	X	X	X	X	X	X	X
LM_backward_complete	Χ	Χ	Χ	Χ	Х		Х	Х	
LM_stepwise_complete	Χ	Х	Х	Χ	Х		Х	Х	
LM_CpAIC_complete	Χ	Х	Χ	Χ	X		Х	Х	
LM_minus_corr	Χ	Χ	Χ	Χ				Х	Х
LM_forward_minus_corr	Χ	Х	Х	Х				Х	Χ
LM_backward_minus_corr	Χ	Х	Χ	Χ				Х	
LM_stepwise_minus_corr	Χ	Х	Χ	Χ				Х	
LM_CpAIC_minus_corr	Χ	X	X	Χ				Х	