

Diamonds

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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_backward_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	X	X	X	X	X	X	X	X	X
LM_forward_complete	X	X	X	X	X	X	X	X	X
LM_backward_complete	X	X	X	X	X		X	X	
LM_stepwise_complete	X	X	X	X	X		X	X	
LM_CpAIC_complete	X	X	X	X	X		X	X	
LM_minus_corr	X	X	X	X				X	X
LM_forward_minus_corr	X	X	X	X				X	X
LM_backward_minus_corr	X	X	X	X				X	
LM_stepwise_minus_corr	X	X	X	X				X	
LM_CpAIC_minus_corr	X	X	X	X				X	

ME	RMSE	MAE	MPE	MAPE
k = 1				
k = 4				

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