Questionnaire: Quality Analysis of OpenAl's ADA Tool

Imagine you are currently learning Data Science, Mathematics, or another similar field. In doing so, you come across the topic of "Multiple Linear Regression." Linear regression is an important foundation for understanding further regression models. The model has many assumptions that need to be checked. To understand these, you upload a dataset to ChatGPT and use an optimized prompt. Under this link, you will find the output from ChatGPT as a PDF, Jupyter Notebook, and HTML file (PDF file is recommended or download the HTML file and open it in your browser (do not open it from OneDrive, as it causes incorrect display of formulas)):

https://1drv.ms/f/s!Aodd-gCxUoPPhrBf3b355pLrYI ZtQ?e=db3liw

Please read through the output and answer the following questions. Your answers will be used to create an AI assistant optimized for this topic. This AI assistant should be able to help future students understand the topic in an applied manner, rather than just learning the theory.

Question	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree		
Part 1: Explanatory Data Analysis							
I have a general understanding about the dataset							
I understand how to read the provided histograms							
I understand how to read the provided boxplots							
I understand how to read the provided ECDF plots							
I understand how to read the provided QQ plots							
Part 2: Preparations for Regression Diagnostics							
I understand the assumption of a linear regression model							
The mathematical equations are helpful for my understanding							



Part 3: Regression Diagnostics							
Outliers							
I understand what outliers are.							
I understand the methods to check for outliers.							
I understand the plot and the interpretation.							
I need further information on the plot.							
I understand the statistical test and the interpretation.							
I need further information on the statistical test.							
High-Leverage Points							
I understand what high-leverage points are.							
I understand the methods to check for high-leverage points.							
I understand the plot and the interpretation.							
I need further information on the plot.							
I understand the statistical test and the interpretation.							
I need further information on the statistical test.							



Non-Linearity								
I understand what non-linearity is.								
I understand the methods to check for non-linearity.								
I understand the plot and the interpretation.								
I need further information on the plot.								
I understand the statistical test and the interpretation.								
I need further information on the statistical test.								
	Heteroscedasticity							
	Heterosc	edasticity						
I understand what heteroscedasticity is.	Heterosc	edasticity						
	Heterosc	edasticity						
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heteroscedasticity is. I understand the methods to check for heteroscedasticity. I understand the plot and the	Heterosc	edasticity						
heteroscedasticity is. I understand the methods to check for heteroscedasticity. I understand the plot and the interpretation. I need further information on	Heterosc	edasticity						



Correlation of Error Terms							
I understand what correlation of error terms is.							
I understand the methods to check for correlation of error terms.							
I understand the plot and the interpretation.							
I need further information on the plot.							
I understand the statistical test and the interpretation.							
I need further information on the statistical test.							
Normality of Residuals							
	Normality (of Residuals					
I understand what normality of residuals is.	Normality (of Residuals					
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Collinearity of Predictors					
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Thank you all for helping me with my bachelor's thesis! ©

