**Questionnaire: Quality Analysis of OpenAI‘s ADA Tool**

Imagine you are currently learning Data Science, Mathematics, or a related field. You come across the topic of "Multiple Linear Regression." This mathematical model makes several assumptions to ensure that the result is reliable and interpretable. Now you want to learn how to check these assumptions. For these so-called "regression diagnostics" you want to use ChatGPT and upload a dataset to check the regression diagnostics. The following link shows such an output/report with an optimized prompt:

<https://chatgpt.com/share/5858b64c-cadd-4d27-b2dd-9c56039c0ba6>

Please answer the following questions to this output to analyze it from a learner's perspective. These results will be used to improve the prompt and develop a tool using ChatGPT's API, which students can use to learn this topic in the future.

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| --- | --- | --- | --- | --- | --- |
| **Question** | Strongly Disagree | Disagree | Neutral | Agree | Strongly Agree |
| I have a general understanding what the dataset is about. |  |  |  |  |  |
| The introduction helps me understand the assumptions. |  |  |  |  |  |
| I understand which methods can be used for each assumption. |  |  |  |  |  |
| I understand the plots and their interpretation. |  |  |  |  |  |
| I understand the statistical tests and their interpretation. |  |  |  |  |  |
| I understand which assumptions are violated and the reasons behind it. |  |  |  |  |  |
| The structure helps me follow the topic. |  |  |  |  |  |
| The provided code could help me doing my own regression diagnostics. |  |  |  |  |  |
| I want to know more about the used methods. |  |  |  |  |  |
| I want to know more about the mathematical equations. |  |  |  |  |  |
| I need further explanations of the plots. |  |  |  |  |  |
| I need further explanations about the statistical tests. |  |  |  |  |  |
| I need further explanations of the interpretation. |  |  |  |  |  |
| I need further explanations of the code. |  |  |  |  |  |

After answering the questions, please describe what you did not like about the displayed output or what would have been important to you in the output:

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Thank you all for helping me with my bachelor’s thesis! ☺