

Statistics 330 - Exploratory Data Analysis

Instructions and Rubric

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Instructions

For each exploratory data analysis (EDA), perform the following:

1. Summarize, in your own words, the main reasons for analyzing the data. Discuss the goals of the analysis in the context of the problem and why those goals are important (1 paragraph).
2. Summarize the main features and patterns in the data in words and graphics. For each graphical summary (figure/plot) drawn, a written description of the main features of the graphic should also be provided. Written descriptions should be in the context of the problem (e.g. do not refer to an explanatory variable as x) and generally avoid statistical jargon/notation.
3. Discuss an appropriate statistical method that could be applied to analyze the data. Discuss why the proposed statistical method would be useful in achieving the goals mentioned in point #1.
4. Identify one aspect of the analysis that you don't know how to do.

Grading

Grading for EDAs will be on the following scale:

Score	Description
0	The EDA was not attempted.
1	The EDA was incomplete.
2	The scope of the problem was not understood and graphics were not correctly constructed.
3	The scope of the problem was summarized correctly and graphics were roughly sketched and not described sufficiently with text.
4	The scope of the problem was summarized correctly and graphics were professional and appropriately summarized with text but the proposed statistical method for analyzing the data was not appropriate or did not meet the goals of the analysis.
5	The scope of the problem was summarized correctly and graphics were professional and appropriately summarized with text and the proposed statistical method for analyzing the data was appropriate or met the goals of the analysis.