Rubric for Inference

This is the R Markdown outline for running inference, both a hypothesis test and a confidence interval.

| Exploratory data analysis | |
|---|--|
| Use data documentation (help files, code summary functions to understand the data | e books, Google, etc.), the str command, and other ta. |
| | ANSWER |
| # Add code here to understand the data. | |
| Prepare the data for analysis. [Not alway | vs necessary.] |
| | ANSWER |
| # Add code here to prepare the data for | analysis. |
| Make tables or plots to explore the data # Add code here to make tables or plots | ANSWER |
| Hypotheses | |
| - , - , | easonable population (or populations) of interest. |
| Please write up your answer here. | ANSWER |
| | ses as contextually meaningful full sentences. ANSWER |
| H_0 : Null hypothesis goes here. | |

 H_A : Alternative hypothesis goes here.

| Calculate the P-value. | |
|--|---|
| | ANSWER |
| # Add code here to calculate the P-valu | e. |
| Conclusion | |
| State the statistical conclusion. | |
| | ANSWER |
| Please write up your answer here. | ANSWEIL |
| | |
| State (but do not overstate) a contextual | lly meaningful conclusion. |
| | ANSWER |
| Please write up your answer here. | |
| Identify the possibility of either a Type error means in the context of the hypotheral Please write up your answer here. | I or Type II error and state what making such an esses. ANSWER |
| | |
| Confidence interval Check the relevant conditions to ensure to | that model assumptions are met. |
| | ANSWER |
| Please write up your answer here. (Some condi | tions may require R code as well.) |
| | |
| Calculate the confidence interval. | ANSWER |

| # Add | code her | e to | calcula | te the | confider | nce interv | al. | | | | |
|--|-----------|-------|---------|--------|------------|---------------------|----------|---------|------|--|--|
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| State (but do not overstate) a contextually meaningful interpretation. | | | | | | | | | | | |
| State | (but do 1 | ot ov | erstate | a co | ntextually | y meaning | ful inte | rpretat | ion. | | |
| State | (but do 1 | ot ov | erstate | a co | · | y meaning ANSWER | | - | | | |