431 Assignment 2 Grading Rubric

Thomas E. Love and 431 Staff

Assignment was due at noon 2017-09-29

General/Administrative (20 points)

- Award up to 10 points for turning the assignment on time (on time = within 1 hour of the deadline, which was noon 2016-09-27)
    - 10 points for both Markdown and Word/HTML/PDF in on time.
    - 6 points for one of Markdown, Word/HTML/PDF in on time.
    - 0 points if neither is in on time.
    - If a student hasn't submitted either the Markdown or Word/HTML/PDF piece, please identify and pester them via email until they do.

- Award an additional 10 points if there is an on-time answer provided for each of the 6 questions asked of all students (1-6), and 0 if not.

- Award zero points on the entire assignment to anyone whose first submission of the assignment is more than 24 hours late, unless Dr. Love has permitted them to do so.

Question 1 (30 points)

You need to identify (as a group) the 6-10 best essays (of the complete set of 60+) that were read by the TAs (so that's likely the best 2-4 that each of you read) in the Comments section. In the Comments, please briefly identify the top 6-10 and specify the topic of these 6-10 best essays so I can read through them before returning them to the students.

At least 24 out of 30 points should be given if:

- the essay is clear,
- answers the questions posed,
- meets the word limit, and
- has generally good grammar and spelling.

Students should receive **28-30 points** if they meet all of the standards above, and are one of the 6-10 best essays in the group.

Students should receive **24-27 points** if they meet all of the standards above, but were not in that top group.

Students should receive **20-24 points** if they meet most of the standards above

Students should receive **fewer than 20 points** if they fail to meet at least two of the standards above, and a note about why they are receiving than 20 points should be available in the `HW3-EssayComments` section of the roster.

Question 2. (10 points)

The student should note that the Pearson correlation (0.96) is larger than Spearman (0.94), and that the correlation appears strongly positive.

- Subtract 5 points for only providing the #s for the correlation and not giving any interpretation.

Question 3 (10 points)

We want to see a plot showing the loess line and regression line.

- Subtract 3 points if no lines are shown on the plot
- Subtract 5 points if no interpretation of the plot is given (they must answer the following question: Does the plot suggest that a straight line model is appropriate in this case?)

Question 4 (10 points)

Must show the linear correlations for the Iris subtypes and at least one plot, for the Iris type that has the strongest correlation, which is Iris versicolor. Must also show the model or just coefficients used for displaying the plot.

- Subtract 2 points for not showing the numerical correlation (Pearson and Spearman correlation is 0.79)
- Subtract 2 points for not correctly identifying Iris type with the strongest correlation (Iris versicolor)
- Subtract 2 points for no plot
- Subtract 2 points for no interpretation/description

Question 5 (10 points)

Must answer that correlation is larger in full set of 150 flowers. A plot is not required, but useful in viewing the correlations.

- Subtract 5 points if no interpretation/discussion provided
- Subtract 4 points if question is answered fully, but incorrectly

Question 6 (10 points)

- 2 points to identify the correct correlation for the model
- 3 points for making the correct model after making the subset
- 1 point for the 25 percentile prediction
- 1 point for the 75 percentile prediction
- 1 point for the correct final prediction
- 2 points for the 2 correct answers

Question 7 (15 points)

5 points for building each of two meaningfully different plots, plus an additional 5 points for making a meaningful distinction between the two plots, and describing their preference clearly.

Elements for the Class Roster that TEL will provide

Column	Explanation
Name, ID, etc.	Student Identifying Information
HW3-Admin	total score for general/administrative - up to 20 points
HW3-Q1	up to 30 points, score on Q1
HW3-Q2	Question 2 results (up to 10 points)
HW3-Q3	Question 3 results (up to 10 points)
HW3-Q4	Question 4 results (up to 10 points)
HW3-Q5	Question 5 results (up to 10 points)
HW3-Q6	Question 6 results (up to 10 points)
HW3-Q7	Question 7 results (up to 15 points)
HW3-Score	Total Score on Assignment 3 (out of 115 possible points)