431 Homework 4 Grading Rubric

Thomas E. Love and 431 Staff

Assignment was due at noon 2018-09-28

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 2018-09-28)
    - 10 points for both Markdown and HTML in on time.
    - 6 points for one of Markdown, HTML in on time.
    - 0 points if neither is in on time.
    - If a student hasn't submitted either the Markdown or HTML 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 7 questions asked, 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. (5 points)

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

- No more than 2/5 points for only providing the #s for the correlation and not giving any interpretation.

Question 2 (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 3 (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 4 (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 5 (10 points)

- 2 points if they identify the correct type of iris for analysis
- 3 points more if they make the correct linear model after making the subset
- 2 points more for correct 25th percentile and 75th percentile predictions
- 3 points more for presenting the answer appropriately, using complete sentences

Question 6 (10 points)

up to 6 points for building the plot in an appropriate and attractive way up to 4 more for interpreting the plot appropriately, using complete sentences.

Question 7 (30 points)

You need to identify (as a group) the 6-10 best essays (of the complete set of 50+) that were read by the TAs (so that should be drawn from the best 2-3 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.

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 `HW4-EssayComments` section of the roster.

Elements for the Class Roster

The maximum score on the assignment is 105 points, but we'll treat that as if it's out of 100.

Column	Explanation
Name, ID, etc.	Student Identifying Information

Column	Explanation
HW4-Admin	total score for general/administrative - up to 20 points
HW4-Q1	Question 1 score (out of 5 points)
HW4-Q2	Question 2 score (out of 10 points)
HW4-Q3	Question 3 score (out of 10 points)
HW4-Q4	Question 4 score (out of 10 points)
HW4-Q5	Question 5 score (out of 10 points)
HW4-Q6	Question 6 score (out of 10 points)
HW4-Q7	Question 7 (Essay) score (up to 30 points)
HW4-TopEssays	indicate (Top 6-10/All Others) if this was one of the best 6-10 essays?
HW4-EssayComments	specific details and comments on Question 7 (essays)
HW4-OtherTAComments	Comments about anything except Q7, including late/missing details
HW4-Total	Total Score on Assignment 4 (maximum 105 points, but we'll treat as 100.)