DSAI 307: Statistical Inference
Final course project: Grading Criteria

PART 1: Exploratory Analysis: [20%]

10 Questions (2 points per each)

Criterion	Description	Weight
Correctness	Your statistics are calculated correctly from the given data.	50%
Visualization	Answers to each analysis question should be accompanied by at least one descriptive visualization. You are not limited as to its type, or content. You are free to combine, separate, transform, or standardize your data in any way that makes your visualization clearer, and more efficient. You will be graded on the quality of your graphs.	20%
Insights/ commentary	Each analysis question is accompanied by a comment where you interpret the outcome, and explain why you see the trends you do, if any.	30%

PART 2: Answering Questions: [20%]

10 Questions (2 points per each)

Criterion	Description	Weight
Correctness	Your statistics are calculated correctly from the given data.	50%
Visualization	Answers to each analysis question should be accompanied by at least one descriptive visualization. You are not limited as to its type, or content. You are free to combine, separate, transform, or standardize your data in any way that makes your visualization clearer, and more efficient. You will be graded on the quality of your graphs.	20%
Insights/ commentary	Each analysis question is accompanied by a comment where you interpret the outcome, and explain why you see the trends you do, if any.	30%

PART 3: Hypothesis Testing: [20%]

2 Questions (10 points per each)

Criterion	Description	Weight
Hypothesis Formulation	Hypothesis is correctly formulated and adequate to the claim under test.	40%
Testing procedure	An adequate hypothesis test is chosen and correctly implemented.	35%
Result and commentary	Report the result of the test and interpret the validity of the claim accordingly.	25%

15 Questions (1 points per each)

PART 4: Simulation Task: [15%]

Criterion	Description	Weight
Correctness	Your statistics are calculated correctly from the given data.	50%
Result and commentary	Report the result of the test and interpret the validity of the claim accordingly.	50%

PART 5: Documentation:[10%]

Criterion	Description	Weight
comprehensiveness	Your reports document all the components of your work, and provide additional insights into its significance and limitations.	50%
organization	Your reports are well organized and well written and presents your findings in a cohesive, compelling way.	20%
Quality of visualizations	Your visualizations are clear, appropriate to context, and not cluttered or misleading. Your graphs should be varied; don't reuse one type of graph for most questions.	10%
Commentary	Your insights should be relevant, non-trivial, and well-researched.	10%
Ability to explain limitations, and unexpected outputs	You should provide well-researched explanations to unexpected results, or give your educated opinion in case no explanation can be found.	10%

PART 6: Presentation:[15%]

Criterion	Description	Weight
Quality of slides	Slides should be neat, concise, comprehensive, and visually compelling.	30%
Presentation skills	Present your findings in a cohesive way without exceeding the time limit.	20%
Discussion	Ability to answer questions	50%