

STS 2120 – Project 1 (Collaborative Solutions Manual)

Guidelines

Fall 2023 – Dr. Doehler

For this project, you and your team will create a solutions manual for a portion of exercises from recent homework assignments using ChatGPT. Aside from the solutions generated using ChatGPT, the remainder of the project should not be completed with any large language modeling technology and should be written and composed by the human brains on your project team!

Due Date: See course calendar.

Tasks:

- Form a team of 3 students.
- At least one member of your group should create an account at <https://chat.openai.com/> to access ChatGPT (or you may suggest an alternative large language modeling technology to use for this project).
- For this project, you will be using ChatGPT to generate solutions to the specific homework problems specified. You should exhibit curiosity, creativity, and exploration by posing critical questions to ChatGPT.
 - ➔ Take note of any changes in questions you had to make to ask ChatGPT to complete the exercises for you. For example, can you include links to articles for ChatGPT to read or? Or, did you have to re-write the question in some way? Can you give ChatGPT graphs to look at or not?
 - ➔ Critique ChatGPT's responses.
- Compare ChatGPT's responses to the correct solution. Use the "Share chat" icon at the top of the screen to save a record of your chat. (You can think pen it in a new window and print it to PDF.)

Submission:

- **Part I:** Consider Homework #1 Question #8 (this HW question is about workers that perform 2 tasks)

For this question, create a solutions manual that includes the following:

- a) A copy of the original question
 - b) A copy of Dr. Doehler's solution (or your solution/explanation) if a solution was not posted on Moodle.
 - c) A copy of the prompts you provided to ChatGPT and the best solution you generated using ChatGPT.
 - ➔ include the link generated from the "Share chat" option in your solution.
 - d) A discussion of any modifications you had to make in order to have ChatGPT return a response or limitations you observed in using ChatGPT for that item.
 - e) A discussion which compares and contrasts the original solution and the ChatGPT solution.
- **Part 2:** Redo parts (a) through (e) above for Homework #2 Question #7 (this was a SAS HW question)
 - **Part 3:** Redo parts (a) through (e) above for Ungraded Homework #3 Question #4b (this HW question refers to an online article)
 - **Part 4:** In this reflection section, your team should respond to the following prompts:
 - a) In what ways do you see ChatGPT as a tool for learning?
 - b) In what ways do you see ChatGPT as a hindrance to learning?
 - c) What did you learn about ChatGPT as a result of this project?
 - d) What did you learn about statistics as a result of this project?

Scoring Guide

Criteria	Missing or Severely Incomplete	Moderate errors or missing elements	Minor errors or missing elements	Full, accurate response
Part1 – (a) & (b): Original Question & Solution	0 points	1 point	2 points	3 points
Part1 – (c): ChatGPT prompts & solutions	0 points	1 point	2 points	3 points
Part1 – (d): Discussion of modifications/limitations	0 points	1 point	2 points	3 points
Part1 – (e): Compare & contrast original solution and ChatGPT solution	0 points	1 point	2 points	3 points
Part2 – (a) & (b): Original Question & Solution	0 points	1 point	2 points	3 points
Part2 – (c): ChatGPT prompts & solutions	0 points	1 point	2 points	3 points
Part2 – (d): Discussion of modifications/limitations	0 points	1 point	2 points	3 points
Part2 – (e): Compare & contrast original solution and ChatGPT solution	0 points	1 point	2 points	3 points
Part3 – (a) & (b): Original Question & Solution	0 points	1 point	2 points	3 points
Part3 – (c) ChatGPT prompts & solutions	0 points	1 point	2 points	3 points
Part3 – (d): Discussion of modifications/limitations	0 points	1 point	2 points	3 points
Part3 – (e): Compare & contrast original solution and ChatGPT solution	0 points	1 point	2 points	3 points
Part 4 - Reflection on ChatGPT as a learning tool	0 points	1-2 points	3-4 points	5-6 points
Part 4 – Reflection on ChaptGPT as a hindrance to learning	0 points	1-2 points	3-4 points	5-6 points
Part 4 - Reflection on what you learned about ChatGPT	0 points	1-2 points	3-4 points	5-6 points
Part 4 – Reflection on what you learned about statistics	0 points	1-2 points	3-4 points	5-6 points
Overall quality of project	0 points	1-2 points	3-4 points	5-6 points
Conveys a sense of curiosity and critical thinking	0 points	1-2 points	3-4 points	5-6 points