**HOMEWORK 1**

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Welcome to Homework 1!

# Instructions:

All due dates are outlined in the syllabus.

1. Complete the homework and turn it in on Canvas.
2. After the homework deadline, you will be assigned 3 peer’s homeworks to grade.
   1. You must assign a grade for all peers you are assigned in order to receive a grade on the assignment. If you do not do peer reviews or only do some of them, you will receive a 0 on the assignment.

# Need help with homework? We have a few resources to support you:

* Office Hours
  + Mondays - a TA will walk through code for the assignment in detail
  + Thursdays - a TA will review homework solutions
  + Office hours are at 8:00 pm ET for Edx students and 9:00 pm ET for GT students.
  + The link to Office Hours and recordings can be found on Piazza.
* R documentation
* Piazza – We are eager to help you learn this semester, and one thing we want to help you learn is how to utilize the abundant resources available to you. We ask that you spend some time trying to find the answer to your question prior to asking TAs.
  + TAs do not do full code reviews, but you can ask specific questions about lines of code that you are unable to find answers for.

Please remember that each student must submit their own work.

# Rubric:

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| **Score** | **Criteria** | **Comment Expectations** | **Example of peer comment** |
| Exceptional Work  100/100 | - Methodology, results, analysis of results, and code are provided  - All questions are answered and correct (except perhaps a few details)  - Student performed additional analysis than what was expected | What you thought the student did well and how they went above and beyond. | “Methodology, results, analysis of results and code were provided.  All questions were answered.  Student went above and beyond by implementing the KNN model and comparing the accuracy of the SVM model and the KNN model.  Great job!” |
| Meets Expectations  90/100 | - Methodology, results, analysis of results, and code are provided  - All questions are answered with reasonable but basic explanations. There may be minor errors.  - Student did what was asked. | Optional: can provide feedback if you have something notable to add |  |
| Reasonable Attempt, some misunderstanding  75/100 | - Students assignment is missing 1 or 2 of the following: methodology, results, analysis of results, code  - At least 50% of the questions are attempted but explanations are weak, incorrect, or missing. Results differ significantly from the solutions. | Commentary on what you believe the person did that was incorrect. | “Your methodology and results were provided, but the analysis of results and code were missing.  All questions were attempted.  When discussing your methodology for SVM, I noticed that the features were not scaled, resulting in an answer very different than was provided in the solutions.” |
| Insufficient Effort  50/100 | - Students assignment is missing 3 of the following: methodology, results, analysis of results, code  - Only the descriptive problem (the one which does not require any coding) is answered and less than 50% of the coding questions are answered. Explanations are weak, incorrect, or missing. Results differ significantly from the solutions. | Commentary on was missing or why effort was insufficient. | “Methodology, results, and analysis of results were missing.  Answer provided for the descriptive problem and some code for the coding question was provided.” |
| Unable to view/No submission  0/100 | - Student did not attempt the problems. | State if you were unable to open submission | “I was unable to open the .exe file submitted for this assignment.”  “A picture of a cat was provided as submission.” |