

Statistical and Predictive Modeling for Analytics I (DATA 1204)

Assignment #2 – Hypothesis Testing (15% of Final Grade)

Professor: Ritwick Dutta

Recently a blood pressure experiment was conducted on 25 individuals. The results can be found in the BloodPressure.xls database.

Goal of Analysis

The research team is trying to determine if an individual's blood pressure has changed after exercising regularly for the past month (30-days).

Questions:

1. State the Hypothesis Statement that helps solve the research question
2. Provide a written step-by-step outline on how you would prove (or dis-prove) your hypothesis statements that you developed above.
3. Conduct the analysis you outlined in #2 in R
4. Summary of findings and conclusion

Hint: Leverage the Week #5 Exercise

Please post your Word Document (.doc or .docx) including R Code via assignments under Assignment #2 by 11:59 pm on Wednesday, Feb 10th, 2021

Remember that DC Connect doesn't accept R script files. All you need to do is to copy the code from your top left panel in R and paste it at the bottom of your word document.

Grading Rubric

	Needs Improvement	Average	Above Average	Comments
1. Hypothesis Statement				
2. Step-by-step outline on how you would prove (or dis-prove) your hypothesis.				
3. Conduct Analysis described in Step #2 in R				
4. Summary of findings and conclusion				
Needs Improvement –Missing the minimum requirements stated in the assignment requirements. Average –Meets the minimum requirements stated in the assignment requirements. Above Average –Exceeds the requirements that are stated in the assignment requirements.				