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final assignment

1 message

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Detailed instructions for Unsupervised Learning final assignment

Following the mid assignment results I received, and the problems I have seen, I would like to clarify a simple set of rules to explain the final assignment (this is a list of the most frequent problems I encountered):

A. Please follow the guidelines of the submission length and format I sent
B. The goal is to write the results like a paper, and this has few general rules
    a. Each equation has a number
    b. All figures and tables have detailed figure/table captions that explain in detail what is in the figure/table without having to read the text
    c. There is no point in showing 10 versions of the same figure, or more clearly stated, a figure should be there only to convey a claim, otherwise it is useless.
    d. A paper should be like a funnel. Everything should lead to your conclusions, so no need to detail things that are not interpreted after being shown.
    e. In the methods, the goal is not to explain what an algorithm does. Instead, the goal is for someone who wants to reproduce your results, to understand to the last detail what you have don No need to explain what is each specific algorithm and what it does.
    f. Subsections should not be shorter than 10 lines (of paper).
    g. The results should not be a list of facts (Also known as a factoid). Instead, the results should be organized by claims (e. KNN is better than other algorithms in our datasets).
    h. The conclusions should not be a summary of the results, but rather your own conclusions.
    a. Summary tables are crucial when comparing methods/algorithms
    j. Each claim should have a statistical test to support it, and the statistical methods should be detailed in the methods.
    k. When putting values on axes of figures, please put them in a size that can be read on the screen without magnifying the text.
    ax. Try to make figures as close to your claim (for example when showing a projection, use colors that represent the external classification to highlight the clusters and the external classification).
C. When building code for a DS project it should be modular enough for you to be able to change the input with minimal changes to the code, except perhaps for the data loader.
D. Following students complaints, the final assignment will follow the mid-term one with new dataset. You will only need to add to that anomaly detection and density estimates.
E. You will receive 2-3 new datasets in the coming days.
F. The deadline as initially mentioned in March 15

Good luck

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