Guideline for Course Project

BIA 658

Submit a 12-15 page report in word format:

* Name the file as BIA658Project-LastName-FirstName
* double spaced, 12 point Times New Roman font

Structure of the Report

1. Title Page: Project Title, Name, Course Code (does not count toward the page limit)
2. Introduction: Define and articulate the problem\question being investigated (10%, 0.5 to 1 page);
3. Dataset Explanation (30%, 4-5 pages): Find a **Secondary** Dataset that can help you solve your problem/question
   1. Explain the data
      1. How the data was collected
      2. How was the network constructed
   2. Explain the network:
      1. Nodes
      2. Edges
      3. Size/Density
   3. Variables examined in the analysis:
      1. Names of each variable (e.g., clustering coefficient)
      2. How was each variable measured:
         1. Provide 1-2 visualizations of your variables. **Make sure you explain the what your visualizations can tell us** (e.g., distribution of node degree centrality)
4. Report 2-3 analytics with social network analysis tools (45%, 6-7 pages)
   1. Report the results: test statistics, p-value (if any) and your conclusion
      1. For ERGM, report the coefficient and p-value of each of the terms tested – was each of the term significant? Was the effect negative or positive?
   2. Provide 1-2 visualizations of your findings. **Make sure you explain the what your visualizations can tell us.**
5. Interprets the results and recommends a solution (15%, 1-2 page).

**Notes:**

* Submit one word document, no need to attach your dataset or R code
* However, you need to clearly explain what were the variables you used, how it was measured, what analysis you did, and the statistics you produced. – a good explanation should be one that allows the reader to understand what you did and how you did it without looking at your data/model.
* Don’t provide screenshots of your dataset or model
* The report will be evaluated based on:
  + To what extent the analysis you did can help you answer the problem/question you outlined (a.k.a., if you chose the correct analysis)
  + To what extent you conducted the analysis correctly
  + To what extent you reported the results of your analysis accurately and clearly
  + How well you interpreted the statistical findings into a practical implication (e.g., a business solution)
  + Clarity of writing
  + You will NOT be evaluated based on whether your results were statistically significant

Guideline for Course Project Presentation

1. 10-15 min – about 15 slides
2. Problem statement (1 slide) – Introduce the question(s) you are answering/problem you are solving
3. Dataset explanation (1-2 slide) – Explain what is your network about, how the network was constructed and the nodes & edges
4. Descriptive Statistics of network key variables (2-4 slides) – Provide descriptive stats & visualizations of your network and your key variables
5. Analytical approach (1 slide) – Talk about what analyses you conducted
6. Your findings (3-5 slides) – Present key findings of the analyses
7. Interpretations of findings and recommendations (1 slide)

* The presentation will be evaluated based on:
  + The organization of presentation
    - To what extent you covered all the required sections mentioned above
  + The clarity of presentation
    - How clear was the presentation to the audience
  + The length of presentation (10 min)
    - Make sure you don't run over time