Project & presentation guidelines

STA685

Projects will have the format of a complete analysis of a ***SLM problem*** using a **real dataset** (*not textbook data*)**.** Projects will be presented in person at the end of the semester (see BB-Announcements for date). ***R*** should be used for the statistical analysis. The **SLM related to the paper** you read should be used as the primary methodology for data analysis. Additional methods may be used for comparison if desired. Keep track of all resources you used for starting the abstract and completing the project; these need to be **cited;** *work with no references WILL NOT be graded* (0 pts).

TOPICS

STEP 1. Tentative "projects topics" have already been pre-determined (part of EXAM 1-take home).

- ✓ Go to the **PROJECTS** folder and review posted resources (links to data repositories & list of papers).
- ✓ Select a **paper** that seems to be interesting to you and read it or suggest a different paper that utilizes *tree-based methods* (similar to those in textbook Chapter 8).
- ✓ Identify a **"tentative" dataset** that you would like to use for the project (provide your recourses). Avoid using textbook (you may be able to use a textbook-dataset ONLY with instructor approval).
- ✓ **"Tentative" abstract** Write a short summary (2-3 paragraphs long) related to the paper and dataset you selected (Should include: a. brief description of dataset (response; predictors; link etc); your selected paper, topic/methodology; your research goals.)

STEP 2 Students have already met with Dr. Papana and discussed their tentative projects. Based on the discussion, you should have gotten positive feedback or comments to re-assess the tentative topic.

STEP 3 Week 12: students are welcome to build a **team** (of no more than 2 members) or work **independently**. If you decide to build a team, you need to work on one of the *pre-approved* topics and notify the instructor as soon as possible. ALL students need to **confirm** their topic selection by **November 18,** 2021 (ZOOM project advising meetings are scheduled on November 18th) or sooner.

Remember to get permission from instructor to start working on selected topics.

What to prepare next

Once topics are assigned, each student needs to work on the following.

1. **Power point presentation** on the assigned topic.

Your presentation should clearly state your research goals; description of dataset; methodology review, data analysis results, conclusions and interpretations of results.

- Individual presentations should be about **10 minutes** long plus **2 minutes** for questions. *Depending on number of teams, this may change after Nov 18.*
- Use **Rstudio** for data analysis and provide your **R code** as a separate Rfile. R code should NOT BE part of the power point presentation. You may not use **software other than R**.
- PowerPoint presentations are preferable.
- Presentations should be about 8-10 slides.
- You need to make well-*organized* presentations.

2. **Handouts** for classmates & the instructor

- **Word** or Latex is recommended to type your notes. These handouts should present the *same* information as your PPT presentation BUT they can be *more detailed* (they may have more details on the algorithms or method presented; may discuss special cases etc).
- Handouts and presentation need to be consistent; use same datasets, software, content etc.
- Attach **R code** at the end of your handout.
- Include ALL references

WHEN?

Presentations are scheduled on **December 9**, 2021 from **6:00-8:00 PM** (we may run 10-15 minutes late).
Attendance: Attendance is mandatory for all students.

IMPORTANT DEADLINE: ALL MATERIALS (PPT, handout, dataset, references) will be **due one day before** the presentations**.** Please submit materials via Blackboard as directed by **December 8** (11:00 PM). You will receive **0 points** for your work if any of the required materials are submitted after the due date; no exceptions!

Format of submitted handout

Title page	**Table of content**
• Project title • Your name • Department • Team members (if any) • Course • Date	**Sections** • Background & research goals • Introduction: recognition of and statement of the problem • Data description • Statistical Analysis • Conclusions & interpretations • R code • References

Presentation Grading rubric

Rubric. This is the rubric I will follow to grade your projects/presentations

Name:…… Project Title:……

Criteria	Notes	Points
Evidence of preparation for the presentation (materials submitted on time; PPT: up to 10 slides etc)		**/15**
Time management: clear presentation in 10 min		**/15**
Impact of visual aids (e.g. slides); effective, organized and helpful		**/10**
Organized: presentation has a clear introduction, content , conclusion & interpretations, references		**/15**
Demonstrated an understanding of the material & critical thinking skill		**/25**
Verbal articulation: ideas were clearly expressed.		**/10**
Handouts Handout with R code Dataset		**/10**
Total		