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Data Analytics 2020: Week 12 (Tue) + Project - a plan for the upcoming weeks

2 messages

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Tue, Oct 27, 2020 at 6:58 PM

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Dear all,

Slides for today's class: [Lecture_32](#)

Video link for today's class (on MS Stream): [Lecture_32](#)

Project - plan of action for the remaining weeks

(a) [Week 12] Model design and testing

- Design model/ refine model parameters

- Run cross validation tests and make a note of the results; how can we do better?
- (b) [Week 13]** Run comparisons, test any other models that need to be tested
- (c) [Week 14]** Wrap up the model building/ testing and work on presenting and interpreting results; comment the code, record the video presentation
- (d) [Week 15]** Complete writing the final report/ prepare for ISA 2
- (e) [Week 16]** ISA 2
Finishing touches on all deliverables over the weekend after ISA 2
- (f) [Week 17] Phase 2 (final) report (+ report after plagiarism check) + documented code/ (sample) data to reproduce the results with readme + 5 min video presentation (recording) due by 7:00pm on November 30, 2020**

Formats and suggested content

The final report must be in **2 column IEEE format**

Templates are available [here](#) (doc) and [here](#) (LaTeX); for bibliography use Paperpile with GoogleDocs or Mendeley with MS Word and BiBTeX with LaTeX (BiBTeX is available with Overleaf).

Final report

4-5 page report in 2 column IEEE Conf format

[0.5-1 page] Introduction and background – what is the problem area? Why is it important? What is the specific problem you seek to solve?

[0.5 -1 page] Previous work – A brief review of only the most relevant predecessor work; what limitations have you identified that you seek to address in your work? What are the assumptions you have made about the data/ problem area or the scope of the problem you seek to solve?

[1.5 - 2 pages] Proposed solution – an overview of the various components of your solution (preprocessing + building a model + evaluation)

This is to be followed by a detailed explanation of each component and what you have

[1.5-2 pages] Experimental results and a detailed explanation of all the insights you have gained into the data (on what cases does the model work well? When does it fail?)

[0.5 page] Conclusions

[Not included in page count, i.e., no penalty on how many pages this content runs to...] **Contribution of each team member + References + [optional] Anything interesting you would like us to know** (either some interesting technical find or about the problem domain or just the experience of working on the project, etc.) Also, an Appendix with any further visualizations or tables of comparison not included in the main paper.

Plagiarism check: Please submit your report to librarian@pes.edu and upload this also with your report (you can refine your report to reduce the similarity if you complete this check well in time).

Video

[1 min] What problem have you selected and what data set are you using to solve the problem?

[1 min] Why is what you have done important/ useful?

[1 min] What is the approach you have taken?

[1 min] How did you evaluate your solution/ the algorithm you implemented?

[1 min] Anything interesting that you inferred about the data or learnt through the process? Also, the specific role of each member of the team.

+ 1 min buffer – anything beyond 6 minutes will not be evaluated.

Code/ Data - Links to your team's git account, collab or Kaggle or a link to Drive with the code packaged with a readme explaining the various modules and how to run/ reproduce the results (if the data is too huge, a link to the data set with a representative subset of samples to test your code will suffice).

Evaluation criterion

1. Problem statement

- Design criterion, choice of assumptions, constraints, novelty of application, understanding of the data used/ problem domain
- 2. Technical content
 - Difficulty level/ time and effort invested
 - How much support was available?
 - Any improvements over existing approaches/ solutions or an attempt to solve a new problem?
 - Design of experiments and interpretation of results
 - Readability of the code + reproducibility of results
- 3. Correctness + Completion
 - a. Have all components been submitted? Were any links broken and required follow-up?
 - b. Any obvious errors in the assumptions or application of model, etc.
 - c. Extent of completion
 - d. Quality of inferences and analysis of the results
- 4. Presentation (both reports + video and code + data)
 - Score on plagiarism check on both reports (15% or less acceptable)
 - Clarity (report and video)
 - Aesthetics of the presentation
 - Cohesion as a team and contribution of each member
- 5. Timeliness of the submission of every component (team formation + literature review (with data source and Github link) + final report + code+data (not require separately if files are on Github and made accessible to us) + 5 min video presentation

Note: All submissions can be made prior to the deadline; forms will be released a week or two before they are actually due.

Important: The **submission due tomorrow is canceled** to let you work in peace towards the final submission.
There will be no postponement of the final deadline.

All the best!
Gowri

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Sun, Nov 29, 2020 at 8:47 AM

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