

Group Project

Applied Competitive Lab

January 31, 2024

1. Work on the project will commence today, January 31st 2024, and is due by April 22rd, 2024.
2. The project will be done in groups.
3. The dataset in question is that of wildfires in the USA. Your task is modeling and predicting the cause of the fire. The metric you'll be required to optimize is the weighted ROC AUC score for all classes.
4. When submitting the final project results, you'll be required to submit at the very least:
 - A notebook representing your entire workflow, which should run start-to-end.
 - A detailed report (in PDF format) showing your work, explaining what you did and didn't do and why.
 - A requirements.txt file for whichever libraries are required to run your code.
 - Any and all other files you need and used.
5. In addition, you'll be required to submit an up-to-date notebook containing your work every 2 weeks. Not submitting will deduct 2 points from the report grade. It's fine if you do not make weekly progress - this is mainly to see if and where common mistakes are made.
6. Note that you're not required to submit any model (in a pickle file or otherwise)- you're required to submit your pipeline as you'd like it to be ran. We will perform the testing for the competitive aspect ourselves, so make sure it runs what you intend it to.
7. I recommend you start by sitting together with your group and reading up on the dataset and it's features.
8. Try and split the work so that all of you can act individually, and so that each one of you gets to work on every part of the workflow.
9. In each part of your work, make sure you visualize and discuss both your methodology and results. Split your code up to reasonable cells and parts and don't put all of it in one cell, and make sure you submit coherent code (structured in classes/functions as you see fit). Write your textual elaborations in tandem with your code. Start each general part (i.e, exploring data, cleaning X features and so on) with an explanation of what you seek to accomplish in this part, and elaborate as it goes on.
10. Feel free to ask for advice and help both during and outside class hours- I'm here to help!