

VANDERBILT | M.S. DATA SCIENCE

Capstone Development (DS-5999)

Project Proposal

Please answer the following questions to help guide you in scoping out your Capstone project. Each answer should be about a paragraph for questions 3-7.

1. Who are you working with on this problem? This could be a company, a faculty member, research group, etc. If it is just you, that's fine, just say "NA" here.
2. Will you need to meet with me during the semester? If you said "NA" above, the answer to this question is "Yes." Not meeting with me requires that some other faculty member or practitioner is volunteering to provide mentoring and/or oversight. If you say "No" here, please let me know who this person is who will perform this task. It is perfectly fine for you to meet with both me and someone else if you prefer that, and you can change your mind later.

I can provide the following:

- a. Accountability on timelines, planning and meeting deadlines.
 - b. Help in how to solve difficult logical coding/analysis challenges.
 - c. Assist in formulating and calibrating metrics that effectively communicate results.
 - d. Scoping out your problem and ensuring it is not too big or too small.
 - e. Anything having to do with analytics, statistics, and classification/regression ML tasks.
 - f. I will be of less help in the following areas: Image recognition, NLP as well as specifics in deep learning.
3. Describe the problem you are solving. Be sure to include why this problem is unique or novel. If you are working in a research group or team, be sure to detail your precise contribution in relation to what the whole group is doing.
 4. Describe the data you need for your project. Be as detailed as you can be here – even including key column names you require is encouraged.

NOTE: You should be sure that you have the necessary access to this data before the beginning of the semester. Access to data is a key point of delay in these projects!

5. Describe your approach or primary task. What are you going to do with the data above to answer the question above?
6. Describe what you have done so far, along with an estimate of how much time you have invested in this project already.
7. Describe what you think will be the biggest challenges you will face in executing this project. Identify 1-3 challenges.

You should simply download this file, save a copy for yourself, and insert your answers above. You may use images or plots if they are helpful to answer the questions.



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