DSC550-T301 Data Mining (2235-1) Week 6: Term Project Milestone 1

Week 6: Term Project Milestone 1

Introduction

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Introduction



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6.1 Discussion/Participation



6.2 Term Project: Term Project Milestone 1: Data Selection and EDA **Topics**



Identifying a business problem



Finding data



EDA/graphical analysis

Readings

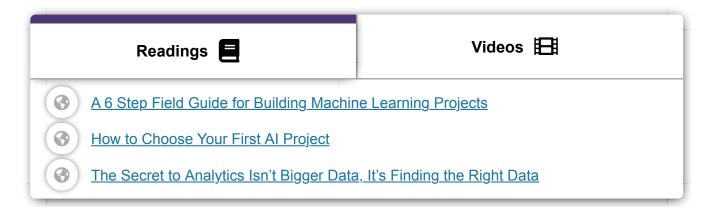


Read the following:

• There are no textbook readings this week.

Supplemental Materials

All of the materials below are from external sources. Authorship and ownership are indicated within the sources themselves.



6.1 Discussion/Participation

Here are optional topics for discussion via Teams this week. Remember, these topics aren't required, but if you are struggling to know what to post about, these can be used to initiate discussion!

- 1 What are some items to consider when selecting a topic for your project?
- 2 How does the problem you are trying to solve affect how you perform your EDA?
- 3 What are the major steps in the model building process?

6.2 Term Project: Term Project Milestone 1: Data **Selection** and EDA

It is time to start using what you have learned throughout the first half of this course by developing an original data mining project. This week you will develop the project idea and do some data exploration/graphical analysis. You will continue working on and updating this project for the remainder of the term.

Submission Instructions

Click the title above to submit your assignment.

This exercise is due by Sunday 11:59 PM.

Submit vour code. output. and analysis at

The first step is coming up with an idea – arguably one of the hardest steps! Identify an original business problem for your project that can be solved with an appropriate model. By a business problem, it is meant that you should work on a problem where there is a good reason to solve it. There should be some organization or company that would find the solution to the problem useful. There are lots of ideas available online through Kaggle and other sources, but your idea should have a unique spin on it. The second step is locating your data. This can come from a variety of sources, e.g., Kaggle, your job, a website, API, etc. Feel free to reach out to your instructor if you are not sure if your idea and data are suitable. You may need to adjust your idea on the availability of data.

Begin Milestone 1 with a 250-500-word narrative describing your original idea for the analysis/model building business problem. Clearly identify the problem you will address and the target for your model. Then, do a graphical analysis creating a minimum of four graphs. Label your graphs appropriately and explain/analyze the information provided by each graph. Your analysis should begin to answer the question(s) you are addressing. Write a short overview/conclusion of the insights gained from your graphical analysis.

As a reminder, Teams is a great place to discuss your project with your peers. Feel free to solicit feedback/input (without creating a group project!) and collaborate on your projects with your peers. Each milestone will build on top of each other, so make sure you do not fall behind.

I recommend building your project milestones in a Jupyter Notebook, building upon one another.

the link above. Comment all your code and address all items listed in the instructions. I would recommend using and submitting a Jupyter Notebook, but this is not required.

View the rubric for this Assignment by clicking on the link below:

Term Project Rubric