UDACITY

Back to Machine Learning Engineer Nanodegree

Capstone Proposal

REVIEW

HISTORY

Meets Specifications

Dear student

This is the same reviewer from last time. Great job updating your proposal! I think that you're meeting the specifications and it's clear that you have a pretty good idea of what you want to do. Your suggestions are all feasible and I think you're on the right track.

About the capstone project:
While the code and implementation are both important, keep in mind that the capstone report is the most important element of your final project. This report simulates a formal submission to a journal for peer-review. Publishing your results is a key credential in machine learning and we want you to be ready for this!

You should have very little trouble quickly passing the project review if you initially follow the report template. Keep in mind that reviewers will be looking to see that you not only fully document how you implemented your project, but why you made the choices you made. This type of critical thinking is crucial to publishing in a peer-reviewed journal. Based on your proposal, I don't think you'll have much trouble with this, but I wanted to mention it up front.

I think you're definitely on solid ground and you've picked an interesting topic for your project. I'm looking forward to seeing the final result!

Cheers!

Project Proposal

Student briefly details background information of the domain from which the project is proposed. Historical information relevant to the project should be included. It should be clear how or why a

Historical information relevant to the project should be included. It should be clear how or why a problem in the domain can or should be solved. Related academic research should be appropriately cited. A discussion of the student's personal motivation for investigating a particular problem in the domain is encouraged but not required.

Excellent job here!

Student clearly describes the problem that is to be solved. The problem is well defined and has at least one relevant potential solution. Additionally, the problem is quantifiable, measurable, and replicable.

> The goal of the project is to utilize historical usage patterns with weather data to forecast bike rental demand in the Capital Bikeshare program in Washington, D.C. The inputs consist categorical (e.g. weather, season, etc) and numerical data (e.g. temperature, windspeed, etc). The output, count of rental bike, is a numerical output, therefore the project is a regression problem.

Well done! This is *very* clear.

The dataset(s) and/or input(s) to be used in the project are thoroughly described. Information such as how the dataset or input is (was) obtained, and the characteristics of the dataset or input, should be included. It should be clear how the dataset(s) or input(s) will be used in the project and whether their use is appropriate given the context of the problem.

> As this is a time series data, the validation and test dataset must be split chronologically to avoid the “leakage” of future data into the prediction.

Good job recognizing this! We definitely want to avoid any issues with "look ahead bias" in the model.

Student clearly describes a solution to the problem. The solution is applicable to the project domain and appropriate for the dataset(s) or input(s) given. Additionally, the solution is quantifiable, measurable, and replicable.

A benchmark model is provided that relates to the domain, problem statement, and intended solution. Ideally, the student's benchmark model provides context for existing methods or known information in the domain and problem given, which can then be objectively compared to the student's solution. The benchmark model is clearly defined and measurable.

Student proposes at least one evaluation metric that can be used to quantify the performance of both the benchmark model and the solution model presented. The evaluation metric(s) proposed are

the benchmark model and the solution model presented. The evaluation metric(s) proposed are appropriate given the context of the data, the problem statement, and the intended solution.

Student summarizes a theoretical workflow for approaching a solution given the problem. Discussion is made as to what strategies may be employed, what analysis of the data might be required, or which algorithms will be considered. The workflow and discussion provided align with the qualities of the project. Small visualizations, pseudocode, or diagrams are encouraged but not required.

Still looks great!

Proposal follows a well-organized structure and would be readily understood by its intended audience. Each section is written in a clear, concise and specific manner. Few grammatical and spelling mistakes are present. All resources used and referenced are properly cited.

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Student FAQ