UDACITY

Return to "Machine Learning Engineer Nanodegree" in the classroom

Capstone Proposal

REVIEW

HISTORY

Meets Specifications

Nice job finishing up your proposal! With your final capstone report, just remember to follow the report template and fulfill each rubric point to quickly pass the final review.

Best of luck with the project! 😎

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 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.

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.

Good work outlining the project and providing background information on the Arvato customers problem domain.

To complete this section for the final report, just be sure to also discuss current ML approaches to solving the problem and include references/links to any existing research.

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.

If interested you could also work through this feature engineering checklist, or experiment with automated feature engineering.

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 appropriate given the context of the data, the problem statement, and the intended solution.

Good work discussing the metrics you'll use to evaluate the model's performance, although the final writeup should also show the actual equations/steps used to calculate the scores.

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.

Make sure your final report identifies a specific benchmark level of performance based on a model or naive prediction that can be used to sanity check your additional learned model(s).

e.g., try fitting a simple model such as logistic regression or naive bayes first to set a baseline score for the dataset. 😉

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.

Good discussion of the data, but make sure your final report also provides additional summary stats (e.g., feature means/std devs, etc) and try to include some samples of the data directly in your writeup.

This exploratory analysis helps readers understand just how tricky a problem this is.

Student summarizes a theoretical workflow for approaching a solution given the problem. A 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.

Good discussion of your approach to solving the problem. I hope you find it challenging and rewarding as you complete the implementation. 😃

The 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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RETURN TO PATH

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