Back to Machine Learning Engineer Nanodegree

Capstone Proposal

REVIEW

CODE REVIEW

HISTORY

Meets Specifications

Meets Specifications

Dear Excellent Student,
This proposal is simply excellent. I am looking forward to seeing this work implemented in Part 2. I encourage you to work in this way and continue with the professional spirit. You have a good analysis of the problem and I think you will be comfortable to implement this work and the second part will be as good as this submission. Thanks and good luck!👏👏

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

the student's personal motivation for investigating a particular problem in the domain is encouraged but not required.

Splendid! This is a nice idea and this study may be of great help to the real-world if we formulate a strong model. It is essential to know what our goal here and your discussion provides solid input to it. Ideally, we choose topics that interests us and it is clear you really want to know more about the subject and that is a great motivation tool to strive hard for this project.

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 description of the problem that is to be solved is quantifiable, measurable, and replicable

replicable.

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.

The source of the dataset, its size, and the features/information it contains are all recorded, giving a solid overview that justifies why it is suitable for the situation

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 nice discussion was made here. It was excellent stating the machine learning algorithms to be involved in getting this problem solved. This is the heart of the matter as it links the theoretical part of this work to the practical implementation and understanding of the work.

Suggestions and Comments

You could as well give a short summary of the architectures you listed and how you intend to use them in your project.

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

given, which can then be objectively compared to the student's solution. The benchmark model is clearly defined and measurable.

The benchmark you selected seems good to me.

Suggestions and Comments

Some notes for you are given below:

- The reason for a choice of a benchmark model is to help us evaluate at the end of the work whether or not we have done any reasonable and acceptable improvement to the problem.
- It is often advised that as a beginner you chose a benchmark model you are more likely to obtain better results than after running your own model. This will make

  the essence of a benchmark model and machine learning as a whole clearer to you.
- It is also necessary that both the benchmark model and the model you build work on the same dataset. This

build work on the same dataset. This places both models on a common ground for evaluation.

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.

You are on the right track, the metric is clearly defined and a justification was provided.

Suggestions and Comments

- Here is a good link on Choosing the Right Metric for Evaluating Machine Learning Models. It can help you confirm if you are on the right path with your chosen metric.
- Have a look too at Metrics to Evaluate your Machine Learning Algorithm, you

your Machine Learning Algorithm, you might find interesting.

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.

A good strategy was conducted to approach the solution in the report.

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.

The report is clear, well organized, readable, and easy to understand. Adding references at the end was one major thing you did.

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