UDACITY

‹ Return to "Machine Learning Engineer Nanodegree" in the classroom

DISCUSS ON STUDENT HUB

Capstone Proposal

REVIEW

CODE REVIEW

HISTORY

Meets Specifications

Perfect!
Now is to develop the final project to become a Machine Learning Engineer!
😄 😄 😄

Good luck!

If you want to add me on Linkedin (Rafael Buck) feel free.
Proost!
🍺

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.

Excellent description of the background information. You mentioned possible applications and solutions. Awesome!!! 😄

Suggested: Please, in your final report, you might link your intro section with academic references (in the reference section, doing like this ... some reference text [1]... where [1] is the reference number). Here I found some references about the problem that can also be used in your intro section (I hope you enjoy it 😄): A simple and Easy Approach for Home Appliances Energy Consumption Prediction in Residential Buildings Using Machine Learning Techniques and PREDICTING HOME SERVICE DEMANDS FROM APPLIANCE USAGE DATA

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.

Great job here! The problem is clearly defined. And you correctly mentioned that it is a regression problem and you also gave a brief explanation about the inputs and the expected outputs.

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.

Congrats! The dataset that you will use in your project is well described here 😄

Suggested: in your final report, you must explain in more detail your dataset. Here is a complete article on various techniques of the data exploration process.

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.

You clearly described the solution, and it 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.

Very cool your choice of benchmark strategy 😄 This step will be important to compare your final model with the benchmark model and see if it got better, same or worse.

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.

Great!!! You have introduced a metric that you can use to quantify the performance of your benchmark model and your solution model. And as a future machine learning engineer, it's always important to explain why you chose one specific metric rather than another to solve the problem 😄

Suggested:

- Here an interesting reference about Choosing the Right Metric for Evaluating Machine Learning Models.
- And here an article that discusses about What metrics should be used for evaluating a model on an imbalanced data set

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.

An excellent strategy to solve the problem. This approach will conduct your work to impressive results 😄

Suggested: remember to use a business language (less technical) to explain the data findings and the model results to your reader.

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 Udacity's template was properly followed, and the proposal is well written 😄

Suggested: in your final report, you could write another final section, with the references used in the project. It will be awesome!!!

DOWNLOAD PROJECT

RETURN TO PATH