UDACITY

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# Capstone Proposal

REVIEW

CODE REVIEW

HISTORY

## Meets Specifications

Great job with the proposal! I'm excited for you as you start predicting the data and complete your work on the capstone.

Keep in mind that reviewers of your capstone will be checking that you not only document **how** you implemented your code but also **why** you did so — if you follow the report template, you should be able to quickly pass the final review.

Best of luck to you 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.**

Good work outlining the project and providing background information on the kickstarter funding problem domain, including references to recent research in this field.

This is definitely an interesting problem, and one that I haven't seen be tackled by an MLND student before. Excellent choice! 😄

**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 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 from Kaggle, including some helpful stats and descriptions of what the dataset contains.

Make sure your final report also provides addiitional summary stats (e.g., feature means/std devs, etc) and try to include some samples of the data directly in your writeup. This is an important part of the exploratory analysis and helps readers understand just how tricky a problem this is.

**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.**

Nice job proposing a general outline of a solution and identifying potential supervised learning algorithms to be used. 😎

Another sklearn model that would be simple to try out here is an MLP classifier.

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

Good work describing the classification metrics you'll use to evaluate the model's performance, and also showing the equations used to calculate the scores.

**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.**

Great discussion of a workflow for solving the classification problem. I hope you find it challenging and rewarding as you complete the implementation. 😀

And for your reference, another common parameter tuning approach to try out is randomized search — using sklearn's `RandomizedSearchCV` method you can often get comparable results at a much lower run time.

**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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