

PROJECT

Capstone Proposal

A part of the Machine Learning Engineer Nanodegree Program

PROJECT REVIEW

CODE REVIEW

NOTES

SHARE YOUR ACCOMPLISHMENT!  

Meets Specifications

Great job with the proposal! I'm excited for you as you commence work on the implementation.

- As you seem to be aware, it's easy to find existing solutions & kernels online for this kaggle competition. So don't forget to provide references/links in your final writeup to any that help inspire your own original work.
- Also, 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 BMI / EEG problem domain. This is definitely a real world problem that can be tackled with machine learning. 😊

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



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.

Nice job defining the prediction problem, and discussing how the solution needs to predict a probability for each class of movement.



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 kaggle dataset, including some helpful summary stats and descriptions of what the dataset contains — this is an important part of the 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 for the problem and identifying potential neural net techniques to use.

- If you find that training a particular network isn't working well, you can go through this [list of possible reasons](#).
- And here are some additional resources if you're interested in reading more about time series analysis:
 - <https://www.analyticsvidhya.com/blog/2016/02/time-series-forecasting-codes-python/>
 - https://github.com/MaxBenChrist/awesome_time_series_in_python

- <https://tomaugspurger.github.io/modern-7-timeseries.html>



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.

Nice work providing a reasonable benchmark for the project using the results from the kaggle competition.



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 mean AUC metric you'll use to evaluate the model's performance and justifying why it's appropriate for this problem. 😊

Be sure that your final project writeup also includes any equation(s) used to calculate the metric, as well as an overall explanation of how the scores are calculated.



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 problem. Let's hope it's challenging and rewarding when you actually implement it! 😊



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.

 [DOWNLOAD PROJECT](#)

[RETURN TO PATH](#)

Rate this review



[Student FAQ](#)