PROJECT

Machine Learning Capstone Project

A part of the Machine Learning Engineer Nanodegree Program

Meets Specifications

SHARE YOUR ACCOMPLISHMENT

Nice job improving on the sections of your report that needed changes. Your project now meets all specifications defined by the project rubric for this project. Congratulations on passing the final project in the Machine Learning Engineer Nanodegree and best of lucks on your future work.
Cheers and Keep up the good work !!!

Definition

✓ **Student provides a high-level overview of the project in layman's terms. Background information such as the problem domain, the project origin, and related data sets or input data is given.**

✓ **The problem which needs to be solved is clearly defined. A strategy for solving the problem, including discussion of the expected solution, has been made.**

✓ **Metrics used to measure performance of a model or result are clearly defined. Metrics are justified based on the characteristics of the problem.**

- Metric has been well defined and justified

Suggestion

- To give the reader further intuition into the functionalities of your metric, a good idea would be to provide an example on how exactly it is calculated

Analysis

✓ **If a dataset is present, features and calculated statistics relevant to the problem have been reported and discussed, along with a sampling of the data. In lieu of a dataset, a thorough description of the input space or input data has been made. Abnormalities or characteristics about the data or input that need to be addressed have been identified.**

✓ **A visualization has been provided that summarizes or extracts a relevant characteristic or feature about the dataset or input data with thorough discussion. Visual cues are clearly defined.**

✓ **Algorithms and techniques used in the project are thoroughly discussed and properly justified based on the characteristics of the problem.**

✓ **Student clearly defines a benchmark result or threshold for comparing performances of solutions obtained.**

Methodology

✓ **All preprocessing steps have been clearly documented. Abnormalities or characteristics about the data or input that needed to be addressed have been corrected. If no data preprocessing is necessary, it has been clearly justified.**

- Using StratifiedShuffleSplit over the traditional train-test-split, enables the use of the entire training data while keeping data for cross-validation: the distribution of the labels in both would be similar. Around 1% of the data can be used for the cross-validation set.
- These resources (1 & 2 & 3) might provide some more intuition into the the subject of aim here

✓ **The process for which metrics, algorithms, and techniques were implemented with the given datasets or input data has been thoroughly documented. Complications that occurred during the coding process are discussed.**

Rate this review

- The implementation process has been clearly and well discussed
- Enough information has been provided for a skilled programmer to reproduce the results

✓ **The process of improving upon the algorithms and techniques used is clearly documented. Both the initial and final solutions are reported, along with intermediate solutions, if necessary.**

Results

✓ **The final model's qualities — such as parameters — are evaluated in detail. Some type of analysis is used to validate the robustness of the model's solution.**

- Final results are well discussed and their robustness evaluated

✓ **The final results are compared to the benchmark result or threshold with some type of statistical analysis. Justification is made as to whether the final model and solution is significant enough to have adequately solved the problem.**

Suggestion

- Further discussion on the applicability and shortcomings of the model would be a good addition here

Conclusion

✓ **A visualization has been provided that emphasizes an important quality about the project with thorough discussion. Visual cues are clearly defined.**

✓ **Student adequately summarizes the end-to-end problem solution and discusses one or two particular aspects of the project they found interesting or difficult.**

✓ **Discussion is made as to how one aspect of the implementation could be improved. Potential solutions resulting from these improvements are considered and compared/contrasted to the current solution.**

Quality

✓ **Project report 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 to complete the project are cited and referenced.**

Suggestion

- A table of content will be a nice touch to your report and will make it look more professional

✓ **Code is formatted neatly with comments that effectively explain complex implementations. Output produces similar results and solutions as to those discussed in the project.**

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