FAKULTAS ILMU KOMPUTER
UNIVERSITAS INDONESIA

KOMINFO

DIGITAL TALENT SCHOLARSHIP

30. Project-1

Project-1-Car Classification

Car Classification

Given a dataset of distinct car images, can you automatically recognize the car model and make?

16,185 pictures from 196 types of car

Source dataset :

- http://ai.stanford.edu/~jkrause/cars/car_dataset.htm

Marking Guide (100 Points)

Design and code quality [20 points]

- How well does the code conform to the functional specifications and requirements of a project.
- Structural quality, which relates to the maintainability and robustness of the cod

Creativity in Problem-solving [40 points]

- Creativity speaks volumes about your capability to make sense of given data, derive tangible results relevant to the business needs of an organization and present the findings. All this, while keeping in mind the problem statements.

Feature Engineering [20 points]

- Feature Engineering refers to the process of selecting and transforming variables when creating a data model for a given problem statement. While you will be given a general dataset which relates to the problem statement, you need to create "features" that make the models and algorithms work as intended. You can use standard features, including open source implementations, or create your own features -- or learn features automatically during training.
- Note that your code needs to be self-contained, i.e. it should be able to automatically create your desired features, that can be used in the evaluation of the Hold-out test set.

Model Performance [20 points]

- Model performance determines how a model represents the data and how well the chosen model will work. In this challenge, we will be performing a Hold-out model evaluation. For this problem, you are given a training data set, and our evaluators will have a test data set (not seen by the model). This test dataset will assess the likely future performance of the model.
- Note that your model must output a confidence score for every classification.

Submissions will be evaluated by **accuracy, precision, recall, and AUC-ROC**. Given that several solutions have been published for this problem before, we recommend you emphasise how your solution differentiates, for example, according to the other listed evaluation criteria (originality, code quality, etc).

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