Task:

Build a Deep Learning based image classifier that accurately classifies product brands into their respective categories.

Data:

All product data are located in the dataset folder. The dataset is already divided into the train-validation-test set.

Coding Instruction:

1. Please use a Jupyter Notebook to write your code. Ensure that your notebook cell outputs are visible when submitting the file to us. We will appreciate it if you write well-documented code which is easier to read and maintains industry standards.

2. Train, validate, and test your model using the train-validation-test set, ensuring that there is no data leakage.

3. Please feel free to use any libraries or frameworks to read, load, or process your dataset. However, we kindly request you to use TensorFlow, Keras or PyTorch for the model-building part. You can build your own custom model or fine-tune pre-trained models. The choice is yours.

4. At the end of your Jupyter Notebook, you may want to consider mentioning some additional techniques (explain each technique in 2-3 sentences) that were not implemented in the code due to time limitations but have the potential to enhance the performance of the model.