AI Coding Challenge

Thank you for applying for this role!

In this AI coding challenge, you will be asked to solve a given problem, and the result will be assessed based on certain criteria. This is to assess coding skills and the ability to fully utilize the right algorithms.

Below are the instructions:

> **Suggested tools**

- Colab notebook or candidate's own machine or other cloud options.

> **Timeline**

- One week from the day the candidate receives this notebook.
- Ex) If the candidate receives this on 16 May, the result should be sent to us by 23 May.
- Please feel free to submit your result anytime within one week if you can complete the test earlier.

> **Data**

- Click https://drive.google.com/open?id=1a2FVczJbrXWdc7XiT_439F69V_q9IZzU to download the data.
- The dataset contains ~900 images from 10 categories.

> **Analysis**

- The objective is to build image classification model using deep learning algorithms to classify this 10 categories.
- The candidate should also provide requirements.txt for reproducibility.

> **Submission**

- Only models that gives >=85% validation accuracy are qualified for submission.

- There should be one submission per candidate.
- Please provide the whole folder including codes and testing result.
- Proper comments in the codes and simple documentation about the analysis will be appreciated.
- Submitted by Email: [wchoo@munichre.com] and [lywong@munichre.com]

> **Criteria**

- Code readability
- Code efficiency
- Appropriate use of algorithms
- Model performance
- Thought process and problem solving skills

> **Contact**
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> - If there are any other inqueries, please contact [wchoo@munichre.com] and [lywong@munichre.com]

Additional tips:

- To use Google Colab, more instructions are available via https://colab.research.google.com/notebooks/intro.ipynb#scrollTo=-Rh3-Vt9Nev9.
- To use GPU inside Google Colab, please go to: Edit -> Notebook Settings -> Select GPU
- Also, please bear in mind that Google Colab will shut down the notebook after a few hours.