**PE10: Programming Exercise**

**Instruction**

**IMAGE CLASSIFICATION USING AMAZON SAGEMAKER [Optional]**

**Optional PE, you will get full credit.**

Closely follow the textbook chapter 10 and Lecture 08.pptx to implement Image Classification using Amazon SageMaker:

* PE10-1 Data
  + data type and upload the data
* PE10-2 Hyperparameters
  + 2.1 Parameters for the training job
  + 2.2 Hyperparameters that are specific to the algorithm
* PE10-3 Inference through batch transform
  + 3.1 Provision the trained model
  + 3.2 Create batch transform job
  + 3.3 Review the results

**Your task for PE10 is to:**

1. Complete above task
2. Try different test image to review the results in 3.3

**Please make sure you remove all the running resources after finishing the task.**

**Submit the items below to the PE submission page:**

1. Please provide screenshots after completing task1 PE10-1, PE10-2.1, PE10-2.2, PE10-3.1, PE10-3.2
2. Please complete task2, and screenshots of the results, and around 100 words of overall feelings completing this whole PE.
   * Make sure the PE module number and your name are written on the file name, e.g., "*PE10\_Name.docx").*