Continuous Assessment 2

CA2

- **Build** a dataset for a classification / detection / prediction problem.
- The dataset should have at least 1000 samples for **each** class.
- Partition the dataset into several subsets for different purpose, e.g. training, validation and testing
- Use **only** deep learning to solve the problem
- Train and test a model that achieve the highest possible accuracy
- Maximum 4 students per team
- Submission deadline: 30/09/2019
- Submit the a single zip file to CA2_Submissions under the course "Problem Solving Using Pattern Recognition"
- Each team submit only 1 zip file

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Submission

- You are required to submit the dataset
- Submit the final training python script, a testing python script, and a text file that specifies the steps needed to re-produce the required Conda environment, the steps to run the training and testing scripts
- Any other supporting document / code / script
- Submit a clear and comprehensive report
- The report must describe:
  - The steps to build the dataset
  - The design of the models
  - The processes taken to fine tune the model
- The report must also discuss:
  - The problems you are trying to solve
  - The challenges
  - The performance of your models
  - Findings and conclusions