

# Assignment 2

- Assignment 2. DS Methodology
  - Write down the description of selected methodology and Upload it to your own GitHub (.ipynb) and HDLMS (.zip containing .ipynb and data)
  - Record explanation video and upload it to your YouTube channel (share URL)
  - Include mathematical expression, sample code
  - Select one of the methodology that you are interested in: K-means, Support Vector Machines, Random Forests, K-nearest Neighbour, GMM, Naïve-Bayes, Apriori, ANN, CNN, RNN, etc.
  - Recommend to select one that is likely to be used for your CAPSTONE project...
- Structure
  - **Brief background of methodology:** Explain the situation before this methodology was introduced. Explain why this methodology is introduced and where it can be used.
  - **Key concept of methodology:** Explain the key concept of the methodology with mathematical equations. Explain the main strength of the methodology.
  - **Example:** Using a very simple toy data, write down a sample code. You must present the result, what it means, and how it can be used.

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- Guidelines
  - Notebook format
  - Inclusion of mathematical equation.
  - Minimum 2 figures made by yourself.
- Evaluation (Rank evaluation, professor:classmate = 3:7)
  - Requirement
  - Background of methodology
  - Methodology application
  - Key concept of methodology
  - Strength of methodology
  - Applicability of sample
  - Explanation of sample