

[Lab] K-means

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Lab due: Before the end of today session

Evaluation: Code and explanation about the code (in groups of 2 or 3 people (preferably 3))

Remark:

- Only groups of two or three people accepted (preferably three).
 - Before you leave today lab session, you need to show the lab task results to the professor.
 - No late lab will be accepted. There is no make-up lab session.
 - No plagiarism. If plagiarism happens, both the “lender” and the “borrower” will have a zero.
 - Code yourself from scratch. No lab/homework will be considered if any ML library is used.
 - Do thoroughly all the demanded tasks.
 - Study the theory for the questions.
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1 Lab tasks (Due before the end of today session)

1. Download from the course site the 2D data stored in `data_kmeans.txt` file.
2. Cluster them using the K-means algorithm using the formulas seen in class.
3. Test your model with some new data(i.e., generate some test data yourself, and show the test results).
4. Plot both training and test results in a 2D graph.

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