# [Homework] Gaussian Mixture Model (GMM)

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**Due**: Before the next lab session.

**Evaluation**: Interrogation during the next lab session about:

- code (in group of up to 3 people)

- (theoretical, practical) questions (individual)

**Remark**:

- Only groups of one/two/three people accepted. Forbidden groups of larger number of people.

- No late homework will be accepted.

- No plagiarism. If plagiarism happens, both the "lender" and the "borrower" will have a zero.

- Code yourself from scratch. No homework will be considered if you solve the problem using any ML library.

- Do thoroughly all the demanded tasks.

- Study the theory for the interrogation.

## 1 Tasks

1. Implement yourself the GMM algorithm for `Example 1 (density estimation for a Gaussian mixture)` given in the `Lab 3` document.

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