CSE472 (Machine Learning Sessional)

L-4, T-2, January 2018 Term

Report on Assignment 2:

Expectation-Maximization Algorithm for Gaussian Mixture Model

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1. Why should we use a Gaussian mixture model (GMM) in the above scenario?

Answer:

1. How will we model our data for GMM?

Answer:

1. What are the intuitive meaning of the update equations in **M step**?

Answer:

1. Let’s Derive the log-likelihood function in step 4.

Answer:

1. Let’s Implement the above pseudocode and estimate the location of enemy ships.

Answer: