ENGR421 – HW7 REPORT

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For this homework, I was asked to implement a EM clustering algorithm on the dataset given to me. To start with, I implemented a k-Means clustering algorithm with the help of Lab11 to the dataset in order to initialize the centroid and the memberships. After, using the formulas given in the lecture I tried to calculate hik in the step E. After that, in step M, I tried to calculate the class prior, means and covariances using hik. However, the sample means that I calculated were slightly different as shown above and I could not calculate the covariances. Therefore, I cold not proceed with the next step which is drawing the clustering results.

