Assignment 5

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A biometrics database contains height and handspan measurements collected from a large number of individuals. Presumably, that population consists of adult females, adult males and children. The class labels have not been provided in the database. The database is attached.

1. Use the Expectation Maximization algorithm to figure out the class (F, M, or C) of each sample. Note: You may use a module such as scikit-learn. You do not need to implement the algorithm from scratch
2. Estimate the confidence of each prediction by computing the posterior probability
3. Estimate the number of adult females, adult males and children in the population

[Assignment\_5\_Data\_and\_Template.xlsxPreview the document](https://classroom.ucsc-extension.edu/courses/3126/files/664698/download?verifier=DTfsFmEGGs1TWN7kHZC2fK7DeWZPQmpJ7hTLgcKi&wrap=1)