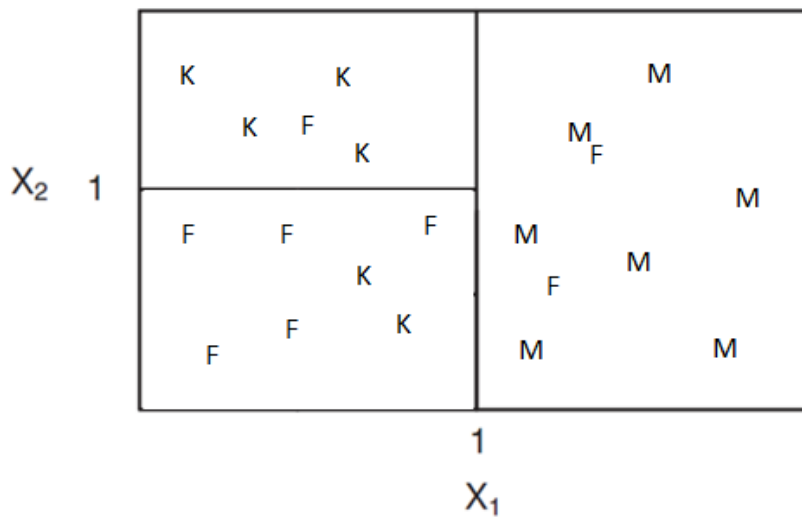


Biostatistics

In-class exercise week 11:

Topic: Classification tree and performance measure

- a) The plot shows observations of a categorical outcome variable with 3 levels (K, F, M) in a 2D feature space spanned by two predictors (x_1, x_2) along with the splits leading to a partitioning of the feature space



- (i) Sketch the corresponding classification tree

(2 To quantify the performance of the classifier, determine the corresponding confusion matrix and calculate the accuracy (also known as classification rate).