Disadvantages of support vector machines include:

* If the number of features is much greater than the number of samples, avoid over-fitting in choosing [Kernel functions](https://scikit-learn.org/stable/modules/svm.html#svm-kernels) and the regularization term is crucial.
* SVMs do not directly provide probability estimates, these are calculated using an expensive five-fold cross-validation (see [Scores and probabilities](https://scikit-learn.org/stable/modules/svm.html#scores-probabilities), below).