Machine Learning for Emotion Analysis in Python

This repository contains the code behind the book Machine Learning for Emotion Analysis in Python, along with descriptions of how to run it all. The code comes in a number of subdirectories as follows:

chapter1 and **chapter2**: these include the scripts for running things from Chapters 1 and 2. If you have problems running these scripts please look in the *faqs.pdf* for the repository and if you're still stuck then contact tariqnahmad@hotmail.com.

basics: this is a set of programs that are used everywhere else. This includes the machinery for installing the various datasets in the places where we want them to go and for using **readers** to retrieve information from datasets: this is described in ***basics.pdf***.

chapter4: this contains the NLP programs described in Chapter 4. There's a description of how to use them in ***chapter4.pdf***.

sklclassifiers: this contains all the code for running the classifiers described in Chapters 5 to 8 and Chapter 10. There's a description of how to use them in ***sklclassifiers.pdf*** (the classifiers in Chapter 5 don't actually use any of the **sklearn** libraries, but they share a lot with the ones that do). There's also a subdirectory, **models**, which contains the machinery for constructing GloVe and word2vec models: the use of these is also described in ***sklclassifiers.pdf***.

All the code in **basics, chapter4, sklclassifiers** should be run from the top-level directory of the repository (i.e. where this *readme.pdf* lives) unless we explicitly say otherwise. If you have problems running them please look in the *faqs.pdf* for the repository and if you're still stuck then contact `Allan.Ramsay@manchester.ac.uk`.

chapter9: this shows how to run the transformer-based classifiers described in Chapter 9. These use a different set of libraries, so they are treated differently in here. This directory just includes the scripts, since the steps that you have to go through are described in Chapter 9 itself. If you have problems running these scripts please look in the *faqs.pdf* for the repository and if you're still stuck then contact tariqnahmad@hotmail.com.