Machine Learning
HW3 – Report
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I found a couple of websites that helped me with understanding NMF a bit more. One of these websites had some code on it of how to use an NMF so I used this code, with making some required changes to make it work for this specific assignment. The website is as follows
http://mlexplained.com/2017/12/28/a-practical-introduction-to-nmf-nonnegative-matrix-factorization/
The other websites I found are
https://people.eecs.berkeley.edu/~jfc/hcc/courseSP05/lecs/lec14/NMF03.pdf
http://www.aclweb.org/anthology/C90-3038
http://derekgreene.com/slides/topic-modelling-with-scikitlearn.pdf

I decided for this assignment and to make my code run smoother that I would place all of the text from the files into one main, big file. So I will submit this file as it will be required for my code to run correctly, as it did for me. The code is fairly short but a lot of researching on the above website was the main time consumer of this assignment.

I opened a terminal in Ubuntu and typed in the following to run the code:
python hw3.py

See below a screenshot of the output achieved: