# News-Recommendation-System

The directory contains two subdirectories :

1. source-code :
   1. 8 python scripts:
      1. one each for each algorithm(kmeans, knn, nb, rank-classifier)
      2. document.py script to represent the articles as a document object
      3. a script to prepare tfidf and tfidfie from doc tf
      4. util script
      5. main.py script to run the application.
   2. templates subdirectory(to render templates on webpage):
      1. TE.html
      2. scnd.html
      3. about.html
      4. mail.html
   3. static subdirectory(includes all the jpg,jpeg,png files,css files and bootstrap folder to use bootstrap files):
      1. bootstrap
      2. refresh.jpeg
      3. TE.css
      4. news1.jpg
      5. logo.jpg
2. dataset : BBC dataset, divided into 6 subdirectories, one each for a topic as business,entertainment,general,science,sports,technology.
3. Scraping.py

To RUN:

Change the working directory to source-code.

on command line : python main.py

Python version 2.7 is recommended.

Guide:

The application will first train and test three classifiers on the dataset.

Once classifiers are ready, it will start recommendation interface.

User will be given with 5 article titles to choose from. Based on the choice, 5 recommended article titles along with their description will be displayed. ‘

User can refresh the original article list by clicking refresh button.