

Topic: Text Mining (NLP)

For Text Mining assignment

One:

- 1) Extract reviews of any product from ecommerce website like Snapdeal and Amazon
- 2) Perform sentimental analysis

Two:

- 1) Extract movie reviews for any movie from IMDB and perform sentimental analysis
- 2) Extract anything you choose from the internet and do some research on how we extract using R Programming and perform sentimental analysis.

Hints:

1. Business Problem
 - 1.1. Objective
 - 1.2. Constraints (if any)
2. Data Pre-processing
 - 2.1 Data cleaning, Feature Engineering etc.
3. Model Building
 - 3.1 Partition the dataset
 - 3.2 Model(s) - Reasons to choose any algorithm
 - 3.3 Model(s) Improvement steps
 - 3.4 Model Evaluation
 - 3.5 Python and R codes
4. Deployment
 - 4.1 Deploy solutions using R shiny and Python Flask.
5. Result Share the benefits/impact of the solution - how or in what way the business (client) gets benefit from the solution provided.

Note:

1. For each assignment the solution should be submitted in the format
2. Research and Perform all possible steps for improving the model(s) accuracy
Ex: Feature Engineering (unigram, bigram, trigram, word-cloud etc.
3. All the codes (executable programs) are running without errors
4. Documentation of the module should be submitted along with R & Python codes, elaborating on every step mentioned here

