Lab Solution

Unit objectives

After completing this unit, you should be able to:

- Learn about the solutions for all the lab exercises

Lab specifications

- Hardware requirement:
  - i5 processor
  - 8GB RAM
  - Stable internet connection

- Software requirement:
  - Python
  - Pycharm or Jupyter IDEs
  - IBM Watson can be implemented along with Python NLTK
  - IBM Cloud - Bluemix

Exercise 1: Solution

- Exercise 1: Text Retrieval.

Exercise 2: Solution

- Exercise 2: Processing, Subsetting, Merging and Cleaning Text Data.

Exercise 3: Solution

- Exercise 3: Simple Language Processing.

Exercise 4: Solution

- Exercise 4: Language Processing**.**

Exercise 5: Solution

- Exercise 5: Accessing Text Corpora.

Exercise 6: Solution

- Exercise 6: Processing Raw Text.

Exercise 7: Solution

- Exercise 7: Categorizing and Tagging Words.

Exercise 8: Solution

- Exercise 8: POS Tagging using NLTK Treebank.

Exercise 9: Solution

- Exercise 9: Tagging and Parsing.

Exercise 10: Solution

- Exercise 10: Analysing Text Similarity.

Exercise 11: Solution

- Exercise 11: Analysing Word Sense.

Exercise 12: Solution

- Exercise 12: Analysing Meaning of Words and Sentences.

Exercise 13: Solution

- Exercise 13: POS tagging with Rule Based Viterbi Implementation.

Exercise 14: Solution

- Exercise 14: Machine Translation.

Exercise 15: Solution

- Exercise 15: Information Retrieval from Corpus.

Exercise 16: Solution

- Exercise 16: Information Answering QA system – Rule Based Text Analysis.

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Exercise 17: Solution

- Exercise 17: Information Extraction from Text.

Exercise 18: Solution

- Exercise 18: Relation Extraction using Subtree Matching.

Exercise 19: Solution

- Exercise 19: Information Extraction from a Text Corpus.

Exercise 20: Solution

- Exercise 20: Analysis of Sentiment and Subjectivity.

Exercise 21: Solution

- Exercise 21: Analysing Meaning of Sentences.

Unit summary

Having completed this unit, you should be able to:

- Learn about the solutions for all the lab exercises