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Natural Language Processing using Python

This course describes Natural Language Processing (NLP) techniques to process textual data, delves into details of operations performed on NLP, and applications buil...More

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Learning Progress ?

Status: Completed

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Overview

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What you will learn

After going through this course, you should be able to: Perform various cleaning and pre-processing operations on textual data using NLTK Work with the various elements of text data such as Tokens, N-grams, Lemma and Frequency Distributions Annotate text with part of speech(POS) using in-built and custom POS taggers Work with various lexical resources provided with NLTK to preprocess your data Build applications such as Spam detector, Topic Modeler, Chatbot, Sentiment Analyzer using NLP and Machine Learning techniques

Pre Contents

Authors/Creators

SS

Sekhar Subramanian

SS

Sekhar Subramanian

AS

Anand Sai Raparla

SS

Srijan Sahay

SS

Swetha Sree S

▼

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At a glance

Course

15h 45m

Intermediate Level

Free

Infosys Wingspan

EN

Natural language processing,

Thank you. Your test submitted.

You have cleared this assessment.

Obtained Percentage

Obtained Marks

60 %

9 / 15

Best Attempt Score:60 % on 29-07-2025

Which of the following factors make NLP a difficult problem?

- ☐ Natural language evolved without rules
- ☒ Machines cannot understand ambiguity in a
- ☐ Natural language has Grammar and syntax
- ☐ Punctuations are difficult for machine to ider

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FreqDist in NLTK plots which of the following?

- ☒ Most frequent tokens
- ☐ Less frequent tokens
- ☐ All tokens
- ☐ None of the above

Which of the following gives us a meaningful base of the word?

- ☐ Stemming
- ☒ Lemmatization

Warning

Which of the following is an example of corpus?

- ☒ Brown
- ☐ Wordlist
- ☐ Wordnet
- ☐ FrameNet

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POS tagging (Parts of speech tagging) is an example of

- ☐ Tokenization
- ☐ Topic analysis
- ☐ Text Summarisation
- ☒ Annotation

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Words that are part of the language but are not used to convey the key ideas are called?

- ☐ Stemmed words
- ☐ Lemmatized words
- ☒ Stop words
- ☐ low frequency words

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The information whether a word refers to a place / person can be found in which of the following type of texts

- ☐ Tokenized text
- ☒ Annotated text
- ☐ Corpora
- ☐ Lemmatized texts

Warning

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Which of the following are taggers?



POS



Unigram



Bigram



Default

For More Solutions: <https://github.com/DevGoyalG/NIET-Infosys-Springboard>

Bag of words Model can be used when

- ☐ Sequence of words is important
- ☒ Sequence of words is not important
- ☐ Meaning of sentences is important
- ☐ When we are checking consistency of senter

Which of the following is a sequential type model?

- ☐ Naive Bayes
- ☐ Logistic Regression
- ☐ Decision Tree classifier
- ☒ Conditional Random Fields

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Which of the following is/are usually considered as tokens in Text analysis?

- ☒ Punctuations
- ☐ Phrases
- ☐ Words
- ☐ Paragraphs

Warning

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Consider the following code

```
import re  
sent="Mary went for$$ to John and asked for$"  
re.search(r"for\$$", sent )
```

- ☐ The second occurrence of for\$
- ☒ The first occurrence of for\$\$
- ☐ None. As there is no such pattern
- ☐ Will throw an error

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Which of the following are types of vectorization?

- ☒ Count Vectorization
- ☒ TF-IDF vectorization
- ☒ Mean Vectorization
- ☐ Log Vectorization

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Which of the following are applications of NLP?

- ☒ Chatbot
- ☒ Topic modelling
- ☒ Sentiment analysis
- ☐ Facial recognition

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The method `polarity_scores` gives us which of the following information?

- ☒ Negativity of the text
- ☐ Importance of the text in the document
- ☒ Positivity of the text
- ☐ Number of tokens

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