Select NLP Options

- Tokenization
- Remove Stopwords
- Part-of-Speech Tagging
- N-Grams
- Stemming
- Lemmatization

NLP Playground (NLTK + Streamlit)

Explore NLP techniques like Tokenization, Stemming, Lemmatization, and N-Grams interactively.



Type or paste your text below:

Natural Language Processing with NLTK is really interesting and fun.

Tokenization

Word Tokens:

Sentence Tokens:

```
    [
      0:
      "Natural Language Processing with NLTK is really interesting and fun."
]
```

Blankline Tokens:

```
0:
"Natural Language Processing with NLTK is really interesting and fun."
```

Whitespace Tokens:

```
0: "Natural"
1: "Language"
2: "Processing"
3: "with"
4: "NLTK"
5: "is"
6: "really"
7: "interesting"
8: "and"
9: "fun."
]
```

WordPunct Tokens:

```
    [
        0 : "Natural"
        1 : "Language"
        2 : "Processing"
        3 : "with"
        4 : "NLTK"
        5 : "is"
        6 : "really"
```

```
7: "interesting"
8 : "and"
9: "fun"
10:"."
```

🚫 Stopword Removal

Filtered Tokens:

```
0: "Natural"
1: "Language"
2: "Processing"
3 : "NLTK"
4: "really"
5: "interesting"
6: "fun"
```

Part-of-Speech (POS) Tagging

POS Tags:

```
▼ 0 : [
  0: "Natural"
   1: "JJ"
▼1:[
  0: "Language"
   1 : "NNP"
▼2:[
   0: "Processing"
   1 : "NNP"
```

```
▼3:[
 0 : "with"
  1: "IN"
]
▼4:[
  0 : "NLTK"
  1 : "NNP"
]
▼5:[
  1 : "VBZ"
]
▼6:[
  0: "really"
  1 : "RB"
1
▼7:[
  0: "interesting"
  1 : "JJ"
]
▼8:[
 0 : "and"
  1 : "CC"
]
▼9:[
  1 : "NN"
]
10:
```

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Bigrams:

```
T
   ▼ 0 : [
     0: "Natural"
      1: "Language"
   ]
   ▼1:[
     0: "Language"
     1: "Processing"
   ]
   ▼2:[
     0 : "Processing"
      1 : "with"
   ▼3:[
     0 : "with"
      1 : "NLTK"
   ]
   ▼4:[
      0 : "NLTK"
   ]
   ▼5:[
     0:"is"
     1: "really"
   ]
   ▼ 6 : [
     0: "really"
     1: "interesting"
   ]
   ▼7:[
      0 : "interesting"
      1 : "and"
```

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```
NLP Playground with NLTK
   ▼8:[
      0 : "and"
   ]
   ▼9:[
   ]
]
Trigrams:
• [
   ▼ 0 : [
      0: "Natural"
      1: "Language"
      2: "Processing"
   ▼1:[
      0: "Language"
      1: "Processing"
      2 : "with"
   ]
   ▼2:[
```

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0 : "NLTK"

1 : "is"

0 : "Processing"

1 : "with"

2 : "NLTK"

0 : "with"

1 : "NLTK"

]

]

▼4:[

▼3:[

```
2: "really"
   ▼ 5 : [
      1: "really"
      2: "interesting"
   ]
   ▼6:[
      0: "really"
      1: "interesting"
      2 : "and"
   ]
   ▼7:[
      0: "interesting"
      1 : "and"
   ]
   ▼8:[
      0 : "and"
      1: "fun"
      2:"."
   ]
Select N for N-Grams
4-Grams:
] *
   ▼ 0 : [
      0: "Natural"
      1: "Language"
      2: "Processing"
```

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3 : "with"

]

▼1:[

```
0: "Language"
   1: "Processing"
   2 : "with"
   3 : "NLTK"
▼2:[
   0: "Processing"
   1 : "with"
  2 : "NLTK"
   3 : "is"
]
▼3:[
   0 : "with"
  1 : "NLTK"
   3: "really"
]
▼ 4 : [
   0 : "NLTK"
  2: "really"
   3: "interesting"
]
▼5:[
  1: "really"
   2: "interesting"
   3 : "and"
]
▼6:[
  0: "really"
  1: "interesting"
   2 : "and"
]
```

```
7 : [
    0 : "interesting"
    1 : "and"
    2 : "fun"
    3 : "."
]
```

T Stemming

Porter Stemmer:

```
0: "natur"
1: "languag"
2: "process"
3: "with"
4: "nltk"
5: "is"
6: "realli"
7: "interest"
8: "and"
9: "fun"
10: "."
```

Lancaster Stemmer:

```
    [
        0 : "nat"
        1 : "langu"
        2 : "process"
        3 : "with"
        4 : "nltk"
        5 : "is"
        6 : "real"
        7 : "interest"
```

```
8: "and"
9: "fun"
10: "."
```

Snowball Stemmer:

```
0: "natur"
1: "languag"
2: "process"
3: "with"
4: "nltk"
5: "is"
6: "realli"
7: "interest"
8: "and"
9: "fun"
10: "."
```

CLemmatization

WordNet Lemmatizer:

```
"[
    0 : "Natural"
    1 : "Language"
    2 : "Processing"
    3 : "with"
    4 : "NLTK"
    5 : "is"
    6 : "really"
    7 : "interesting"
    8 : "and"
    9 : "fun"
    10 : "."
```

✓ NLP Processing Completed!