In [1]:
```
Text = "I am learning NLP"
```

In [2]:
```
import pandas as pd
pd.get_dummies(Text.split())
```

Out[2]:

	I	NLP	am	learning
0	1	0	0	0
1	0	0	1	0
2	0	0	0	1
3	0	1	0	0

In [3]:
```
text = ["i love NLP and i will learn NLP in 2month"]
```

In [5]:
```
from sklearn.feature_extraction.text import CountVectorizer
vectorizer = CountVectorizer()
vectorizer.fit(text)
vector = vectorizer.transform(text)
```

In [7]:
```
print(vectorizer.vocabulary_)
print(vector.toarray())
```

```
{'love': 4, 'nlp': 5, 'and': 1, 'will': 6, 'learn': 3, 'in': 2, '2month':
0}
[[1 1 1 1 1 2 1]]
```

In [8]:
```
print(vector)
```

```
  (0, 0)        1
  (0, 1)        1
  (0, 2)        1
  (0, 3)        1
  (0, 4)        1
  (0, 5)        2
  (0, 6)        1
```

In [9]:
```
CountVectorizer?
```

In [11]:
```
df = pd.DataFrame(data=vector.toarray(), columns=vectorizer.get_feature_nam
df
```

Out[11]:

	2month	and	in	learn	love	nlp	will
0	1	1	1	1	1	2	1

In [19]:
```
!pip install TextBlob
```

```
Requirement already satisfied: TextBlob in c:\users\pooja reddy\anaconda3
\lib\site-packages (0.19.0)
Requirement already satisfied: nltk>=3.9 in c:\users\pooja reddy\anaconda3
\lib\site-packages (from TextBlob) (3.9.1)
Requirement already satisfied: click in c:\users\pooja reddy\anaconda3\lib
\site-packages (from nltk>=3.9->TextBlob) (8.0.4)
Requirement already satisfied: joblib in c:\users\pooja reddy\anaconda3\li
b\site-packages (from nltk>=3.9->TextBlob) (1.2.0)
Requirement already satisfied: regex>=2021.8.3 in c:\users\pooja reddy\ana
conda3\lib\site-packages (from nltk>=3.9->TextBlob) (2022.7.9)
Requirement already satisfied: tqdm in c:\users\pooja reddy\anaconda3\lib
\site-packages (from nltk>=3.9->TextBlob) (4.65.0)
Requirement already satisfied: colorama in c:\users\pooja reddy\anaconda3
\lib\site-packages (from click->nltk>=3.9->TextBlob) (0.4.6)
```

In [26]:
```
text = "I am learning NLP"
```

In [27]:
```
from textblob import TextBlob
TextBlob(text).ngrams(1)
```

Out[27]:
```
[WordList(['I']), WordList(['am']), WordList(['learning']), WordList(['NL
P'])]
```

In [28]:
```
import nltk
nltk.download('punkt_tab')
```

```
[nltk_data] Downloading package punkt_tab to C:\Users\Pooja
[nltk_data]     Reddy\AppData\Roaming\nltk_data...
[nltk_data]   Package punkt_tab is already up-to-date!
```

Out[28]:
```
True
```

In [29]:
```
TextBlob(text).ngrams(2)
```

Out[29]:
```
[WordList(['I', 'am']),
 WordList(['am', 'learning']),
 WordList(['learning', 'NLP'])]
```

In [30]:
```
TextBlob(text).ngrams(3)
```

Out[30]:
```
[WordList(['I', 'am', 'learning']), WordList(['am', 'learning', 'NLP'])]
```

In [31]:
```
TextBlob(text).ngrams(4)
```

Out[31]:
```
[WordList(['I', 'am', 'learning', 'NLP'])]
```

In [32]:
```
Text = ["The quick brown fox jumped over the lazy dog.", "The dog.", "The f
```

In [33]:
```
from sklearn.feature_extraction.text import TfidfVectorizer
vectorizer = TfidfVectorizer()
vectorizer.fit(Text)
print(vectorizer.vocabulary_)
print(vectorizer.idf_)
```

```
{'the': 7, 'quick': 6, 'brown': 0, 'fox': 2, 'jumped': 3, 'over': 5, 'laz
y': 4, 'dog': 1}
[1.69314718 1.28768207 1.28768207 1.69314718 1.69314718 1.69314718
 1.69314718 1.        ]
```

In [ ]:
```

```