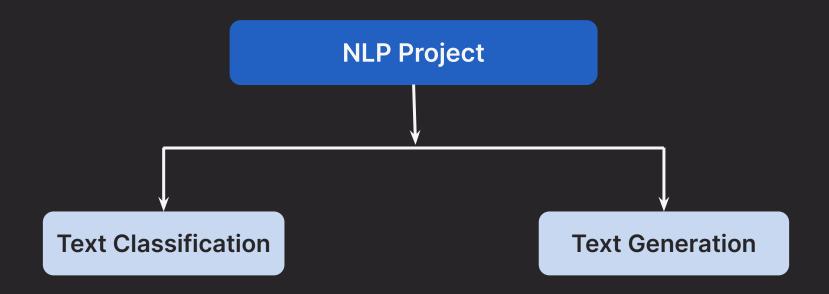




Natural Language Processing





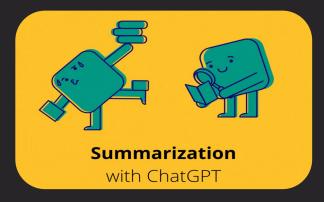
NLP Projects

1. Text Classification



Segregate texts based on the content

2. Text Generation



Generate text based on certain inputs





Common Preprocessing Techniques







Common Preprocessing Techniques







Count of total occurance

Document	pets	animal	cats	dogs	fish
Cats and dogs are pets	1	0	1	1	0
Wild animals are not pets	1	1	0	0	0
Some people keep fish as pets	1	0	0	0	1





Count of total occurance



Break text into individual words

Cats

and

dogs

are

pets



Count of total occurance

Break text into individual words



Removal of stop words like "a", "the", "is" etc.

With Stopwords		broom		drearily	sweeping		
With Stopwords	Up		broken	pieces		yesterdays	life
With Stopwords	Somewhere		queen		weeping		
With Stopwords	Somewhere		king			wife	
With Stopwords	And		wind			cries	Mary



Count of total occurance

Break text into individual words

Removal of stop words like "a", "the", "is" etc.



Convert all text to lowercase

RAW	Lowercase
Cat CAT cAt	cat



Count of total occurance

Break text into individual words

Removal of stop words like "a", "the", "is" etc.

Convert all text to lowercase



Reduce words to their root form called lemma

Original word	Lemmatized word
trouble troubling Troubled troubles	trouble



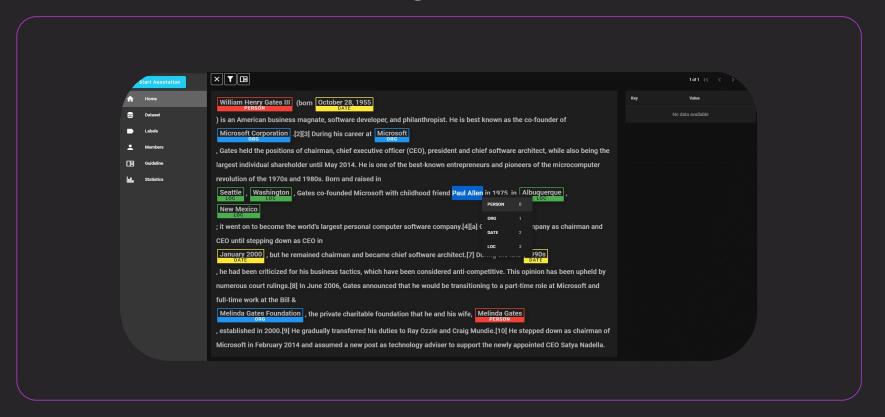


Common Preprocessing Techniques



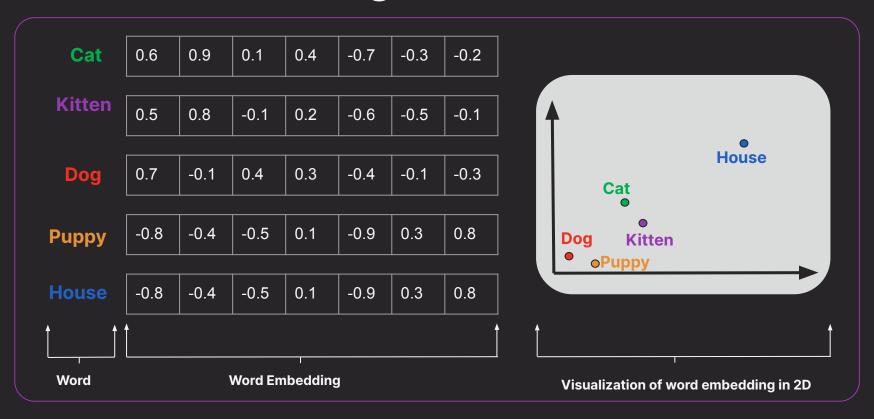


1. Name Entity Recognition



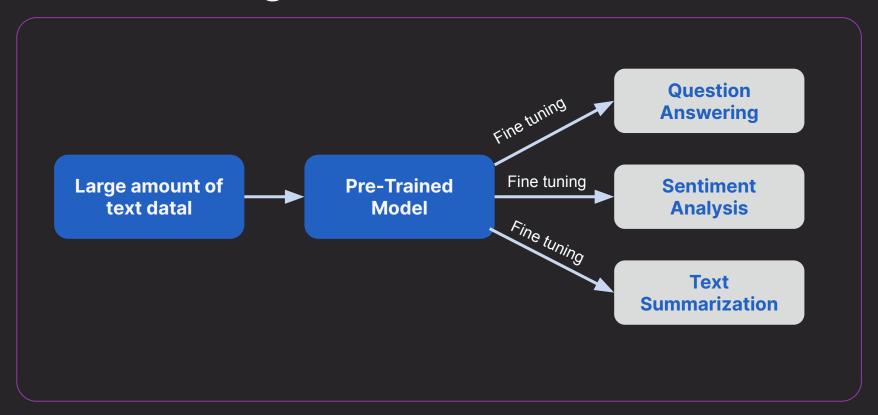


2. Word Embeddings



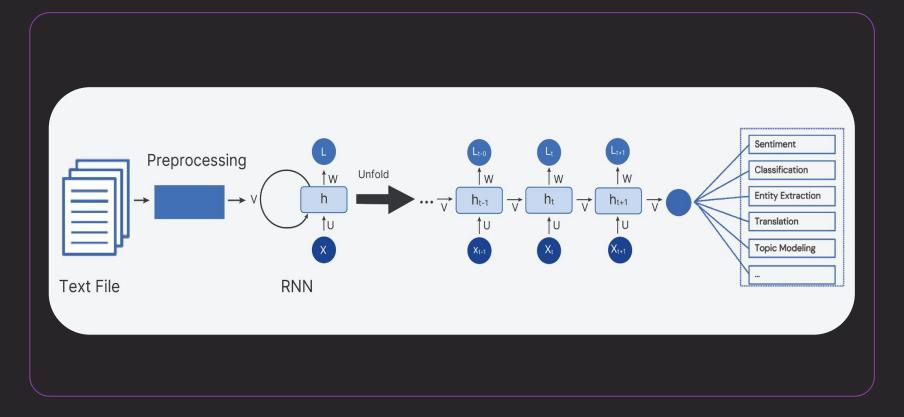


3. Fine Tuning Pre-trained models





4. Building Deep learning models







Common Preprocessing Techniques

