

Part-of-Speech Tagging with Word Embeddings

CS 9875 Final Project

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Outline

Section shortname

Word Embedding Models

Section 1 Longname

Slide Title

Slide text

Slide Title 2

Slide text 2

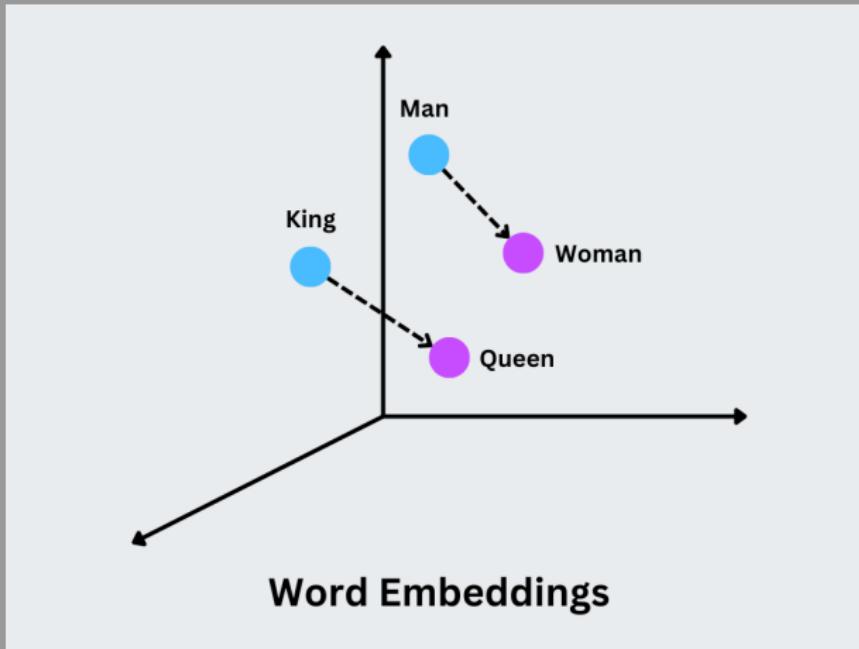
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Word Embedding Models

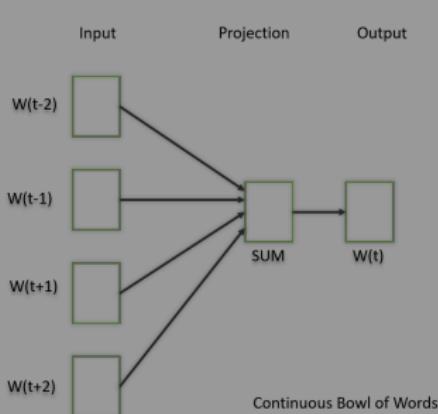
What are word embeddings?



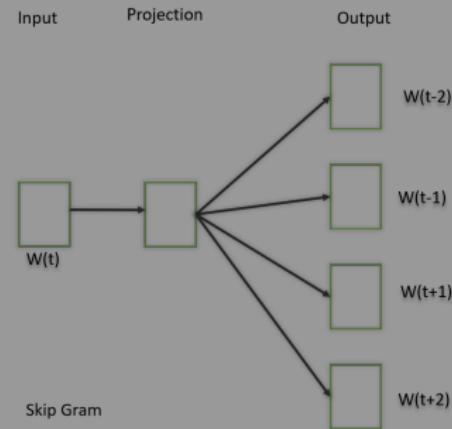
Static Word Embeddings

What are static word embedding models?

Word2Vec



CBOW



Skip Gram

Word2Vec Training Procedures

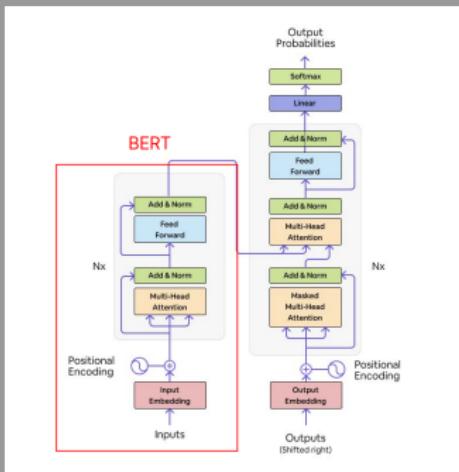
Word2Vec

$$\begin{bmatrix} W_{00} & W_{01} & W_{02} & \dots \\ W_{10} & W_{11} & W_{12} & \dots \\ W_{20} & W_{21} & W_{22} & \dots \\ \dots & \dots & \dots & \dots \end{bmatrix}$$

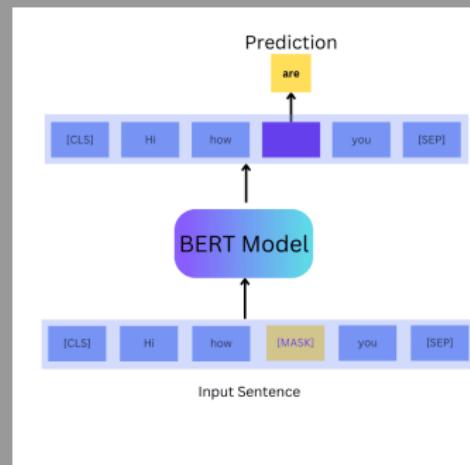
Contextual Word Embeddings

What are contextual word embeddings?

BERT



Transformer architecture



MLM

BERT

