

Word embedding techniques

CBOW, Skip gram

Word2vec

GloVe

fastText

Based on transformer
architecture

BERT

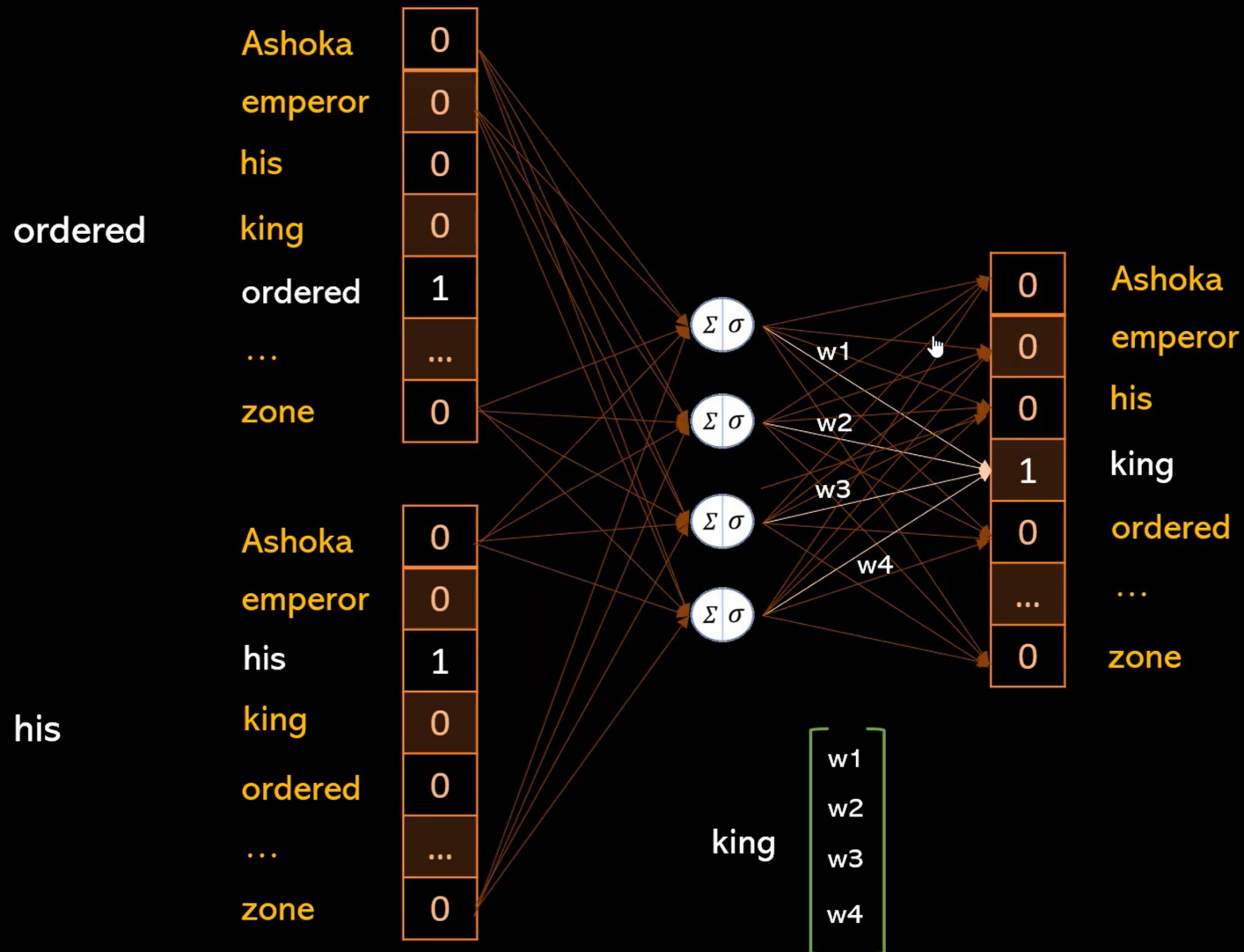
GPT

Based on LSTM

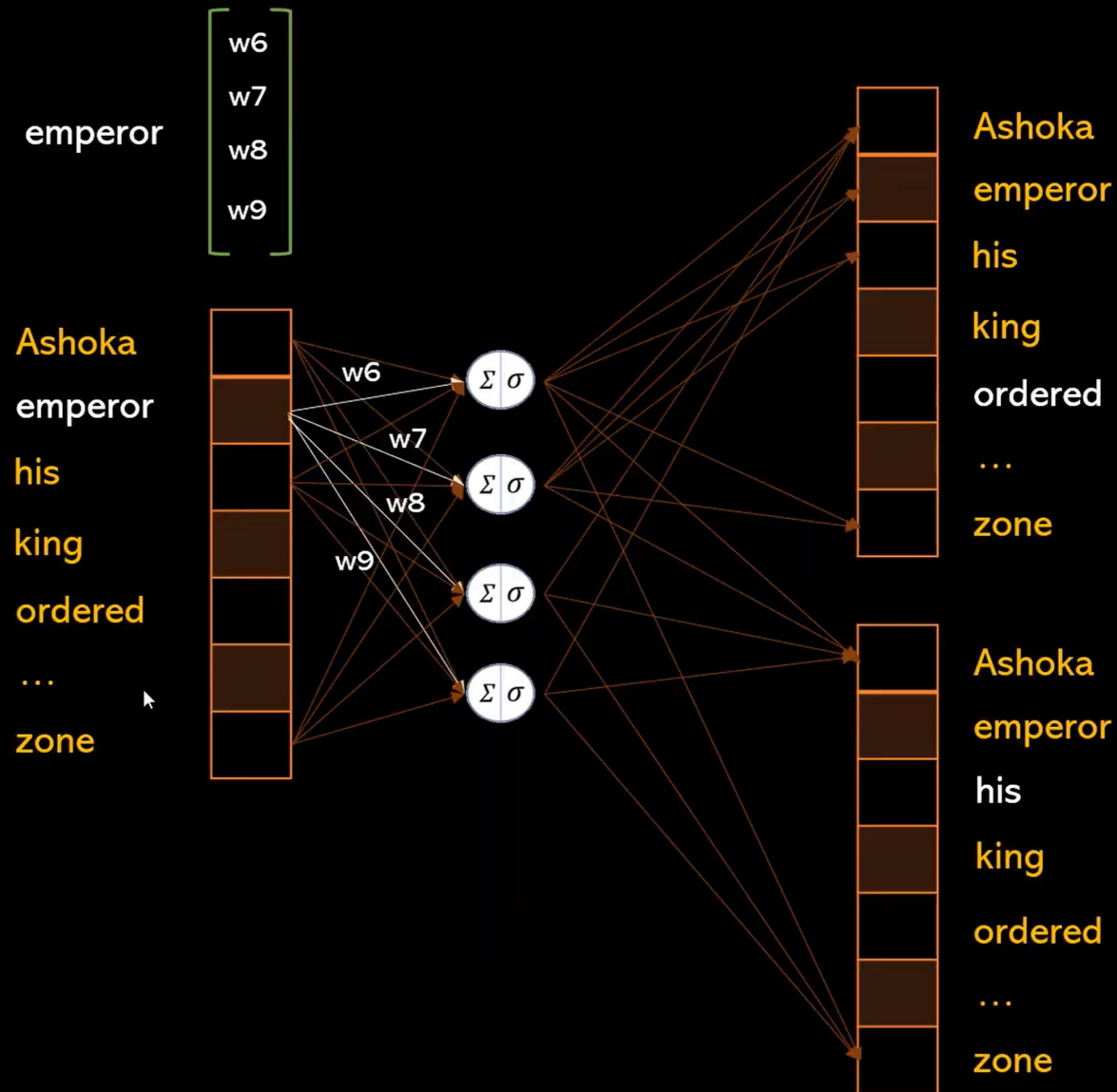
ELMo



CBOW



Skip Gram



Word2vec

fastText



Word2vec

Unit on which neural network
is trained is WORD

fastText



Word2vec

Unit on which neural network
is trained is WORD

capable

fastText

Unit on which neural network is
trained is CHARACTER n GRAM



Word2vec

Unit on which neural network is trained is WORD

capable

fastText

Unit on which neural network is trained is CHARACTER n GRAM

capable

$n = 3$



Word2vec

Unit on which neural network is trained is WORD

capable

fastText

Unit on which neural network is trained is CHARACTER n GRAM

capable

n = 3

cap

apa

pab

abl

ble



Word2vec

Unit on which neural network is trained is WORD

capable

capability

OOV

fastText

Unit on which neural network is trained is CHARACTER n GRAM

capable n = 3

cap

apa

pab

abl

ble



fastText Fun Facts

fastText can handle OOV better than word2vec

fastText is often a first choice when you want to train custom word embeddings for your domain

fastText is a technique (similar to word2vec) as well as a library

