

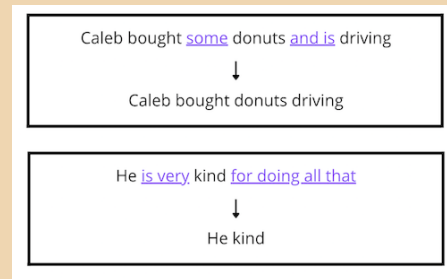
# ACM AI PRESENTS

# RNNs in NLP

& Twitter Sentiment Analysis

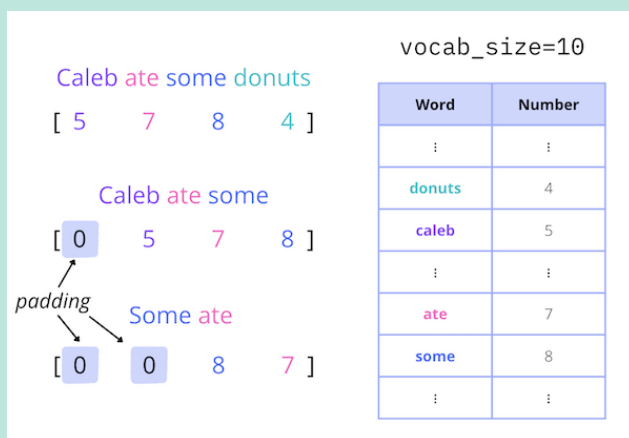
## PREPROCESSING

Convert the data into a format acceptable for training the model



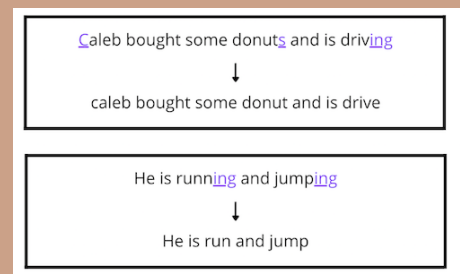
## STOP WORDS

Words commonly used by humans that do not give much useful information



## ONE-HOT ENCODING

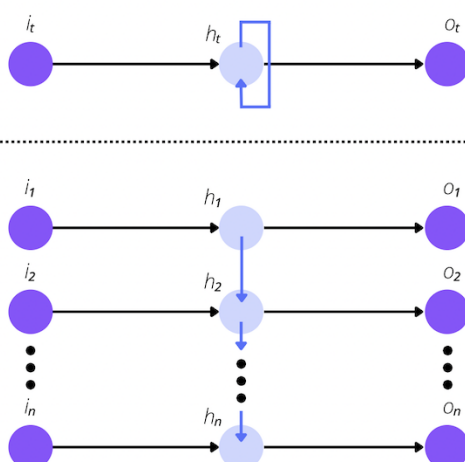
Represents categorical variables as binary vectors



## STEMMING

Reducing a word to its stem by removing its affixes, helpful in preprocessing

## Simple Recurrent Neural Net



## RECURRENT NEURAL NETWORKS

Process sequence input by iterating through the elements. RNNs pass the outputs from one timestep to their input on the next timestep