Comunidad MyFuture-Al

Introducción al Procesamiento de Lenguaje Natural (NLP)

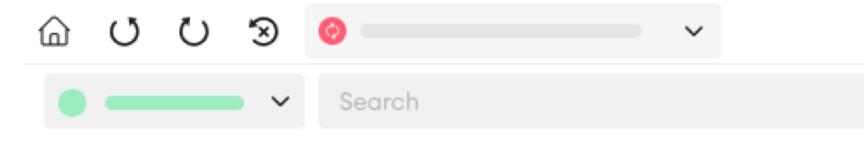
Agenda

Esto es lo que abarcaremos:

- Embeddings
- Preprocesamiento de texto
- Análisis NLP
- Práctica

Procesamiento de Lenguaje Natural (NLP)

"Es una tecnología de machine learning que brinda a las computadoras la capacidad de interpretar, manipular y comprender el lenguaje humano." - Amazon



Despite the rapid advances in Al, cochallenged in matching the precision.

The training data here is as important accurate the input data annotation, model prediction.

How do we annotate data, though? go with this one, but it all depends of purposes of this article, we'll take a composes as one of the most extensively techniques. Moving forward, we'll we following:

¿Cómo representas un texto con números?

Asignando a cada letra un valor



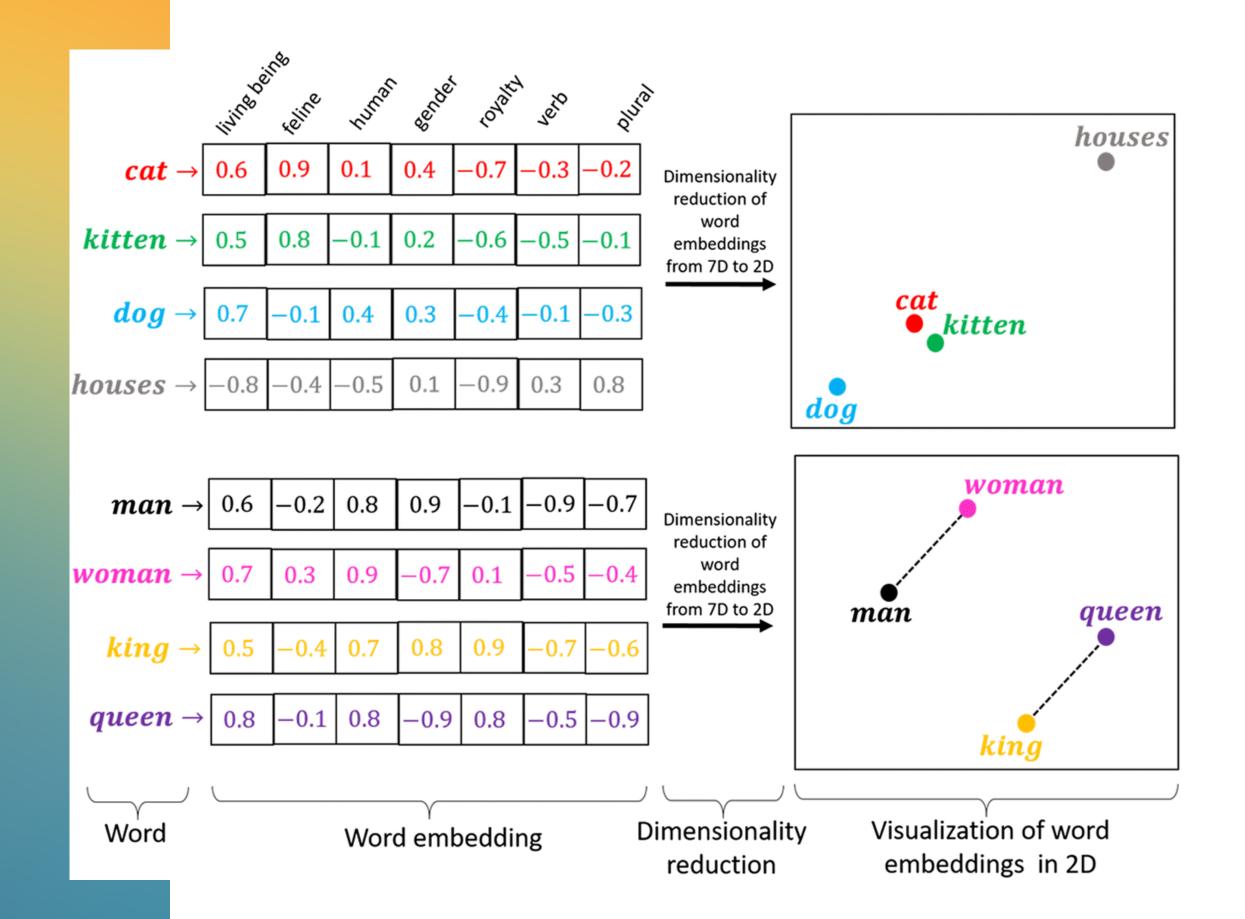
Asignando a cada palabra un valor



Asociación de palabras en contextos similares



Embeddings



Preprocesamiento

"Hey Amazon - my package never arrived https://www.amazon.com/gp/css/order-history?ref_=nav_orders_first PLEASE FIX ASAP! @amazonhelp"

Normalizar

"hey amazon my package never arrived please fix asap"

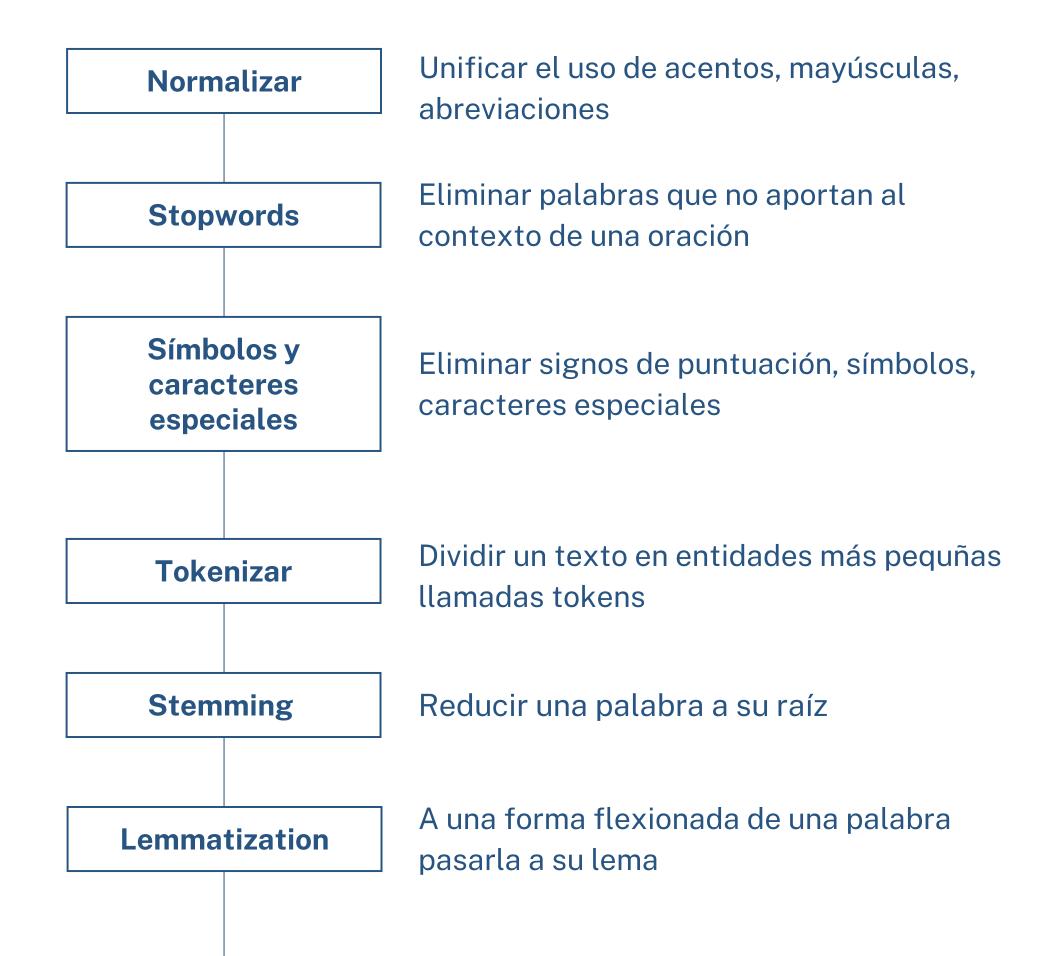
Eliminar stopwords

"amazon package never arrived fix asap"

Tokenizar

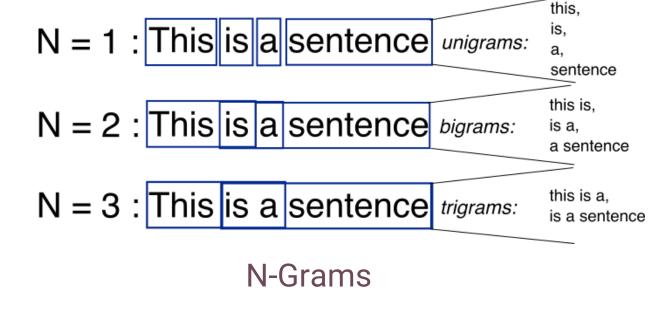
["amazon", "package",
"never", "arrived", "fix",
"asap"]

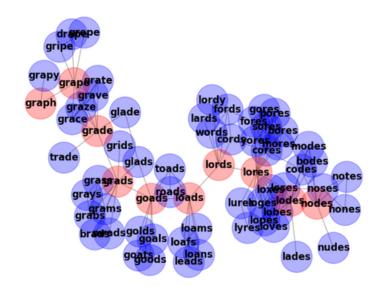
Preprocesamiento



¿Qué podemos hacer con NLP?

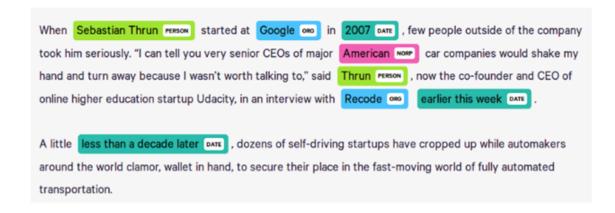




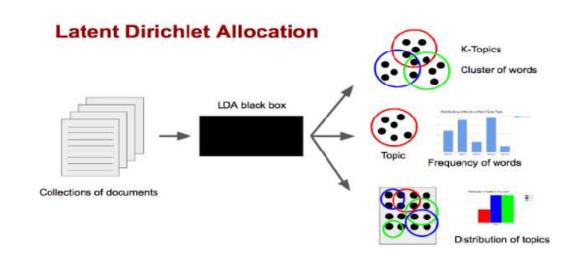


Grafos de palabras

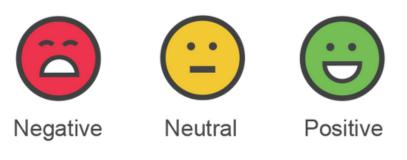
¿Qué podemos hacer con NLP?



Named Entity Recognition (NER) y Part
Of Speech Tagging (POS)



Latent Dirichlet Allocation (LDA)



Análisis de sentimientos y emociones

Vamos al código con algo de PySpark



¿Tienes alguna pregunta?

github.com/lauralpezb/NLP_MyFutureAl http://bit.ly/3RSzYAy

@lauralpezb