

# Chatbot que é o Homer Simpson



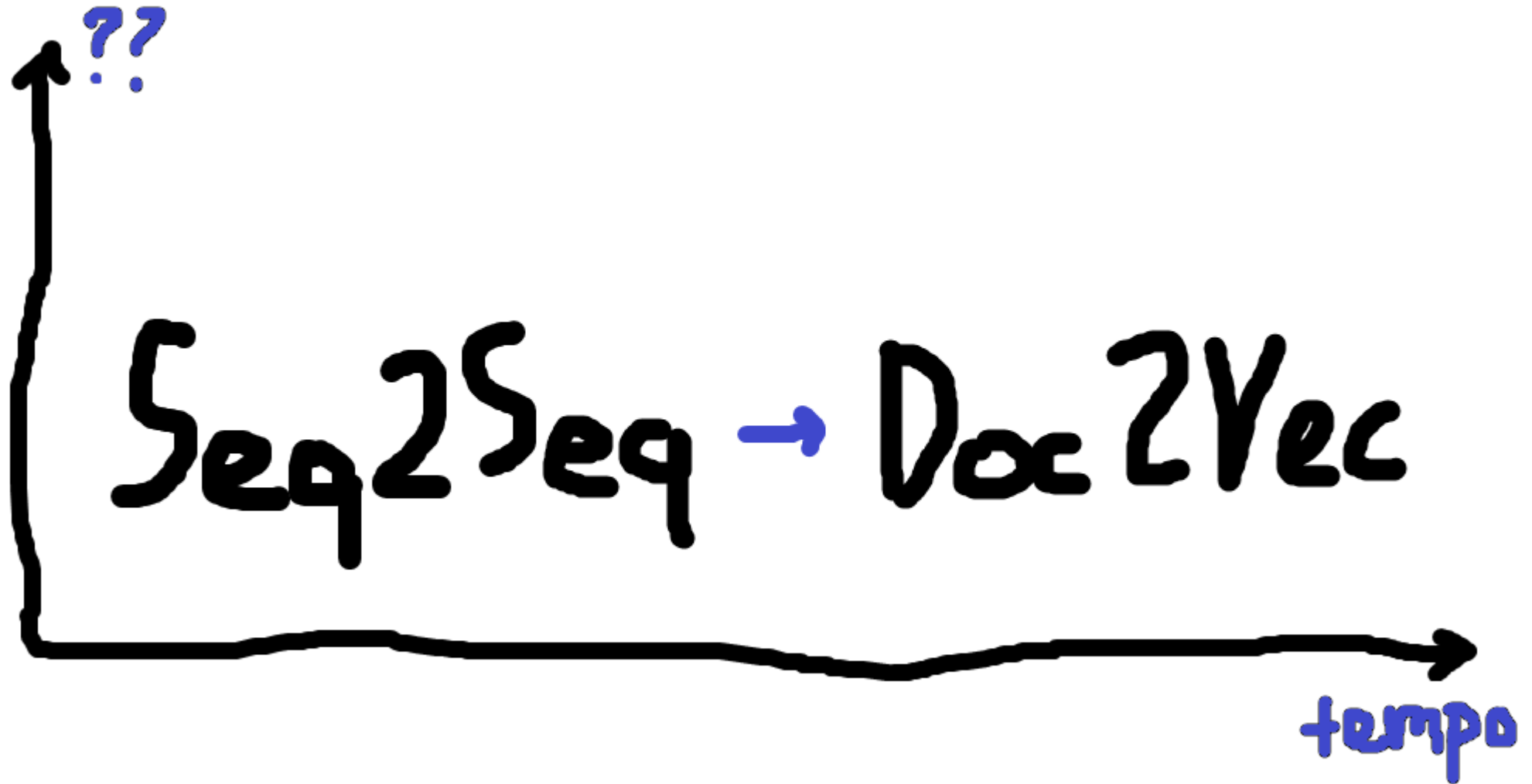


# Motivação

Me: hello homer

Homer: shut up, flanders

# Introdução



# Conjunto de Dados

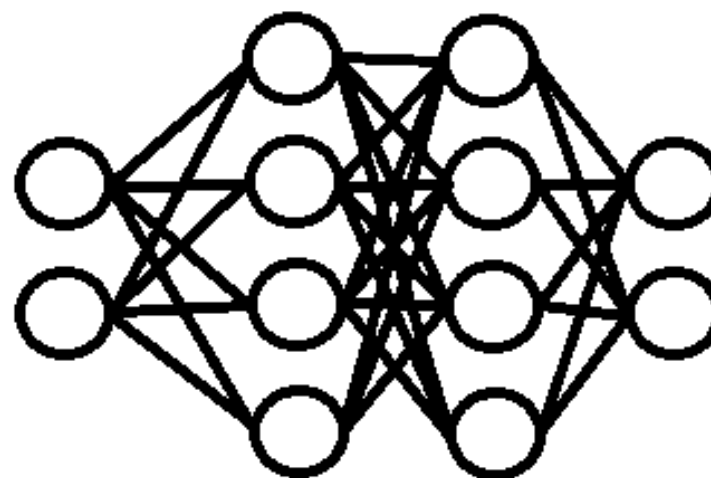
id	episode_id	speaking_line	character_id	location_id	raw_character_text	raw_location_text	spoken_words	word_count
9549	32	True	464.0	3.0	Miss Hoover	Springfield Elementary	No, actually, it was a little of both. Some	31.0
9550	32	True	9.0	3.0	Lisa Simpson	Springfield Elementary	Where's Mr. Bergstrom?	3.0
9551	32	True	464.0	3.0	Miss Hoover	Springfield Elementary	I don't know. Although I'd sure like to ta	22.0
9552	32	True	9.0	3.0	Lisa Simpson	Springfield Elementary	That life is worth living.	5.0
9553	32	True	40.0	3.0	Edna Krabappel-Flar	Springfield Elementary	The polls will be open from now until th	33.0
9554	32	True	38.0	3.0	Martin Prince	Springfield Elementary	I don't think there's anything left to say.	8.0
9555	32	True	40.0	3.0	Edna Krabappel-Flar	Springfield Elementary	Bart?	1.0
9556	32	True	8.0	3.0	Bart Simpson	Springfield Elementary	Victory party under the slide!	5.0
9557	32	False		374.0		Apartment Building		
9558	32	True	9.0	374.0	Lisa Simpson	Apartment Building	Mr. Bergstrom! Mr. Bergstrom!	4.0
9559	32	True	469.0	374.0	Landlady	Apartment Building	Hey, hey, he Moved out this morning. H	19.0
9560	32	True	9.0	374.0	Lisa Simpson	Apartment Building	Do you know where I could find him?	8.0
9561	32	True	469.0	374.0	Landlady	Apartment Building	I think he's taking the next train to Capit	10.0
9562	32	True	9.0	374.0	Lisa Simpson	Apartment Building	The train, how like him... traditional, yet	9.0
9563	32	True	469.0	374.0	Landlady	Apartment Building	Yes, and it's been the backbone of our co	19.0
9564	32	True	9.0	374.0	Lisa Simpson	Apartment Building	I see he touched you, too.	6.0
9565	32	False		3.0		Springfield Elementary	School	
9566	32	True	8.0	3.0	Bart Simpson	Springfield Elementary	Hey, thanks for your vote, man.	6.0
9567	32	True	101.0	3.0	Nelson Muntz	Springfield Elementary	I didn't vote. Voting's for geeks.	6.0
9568	32	True	8.0	3.0	Bart Simpson	Springfield Elementary	Well, you got that right. Thanks for your	10.0
9569	32	True	467.0	3.0	Terri/sherri	Springfield Elementary	We forgot.	2.0

# Conjunto de Treino

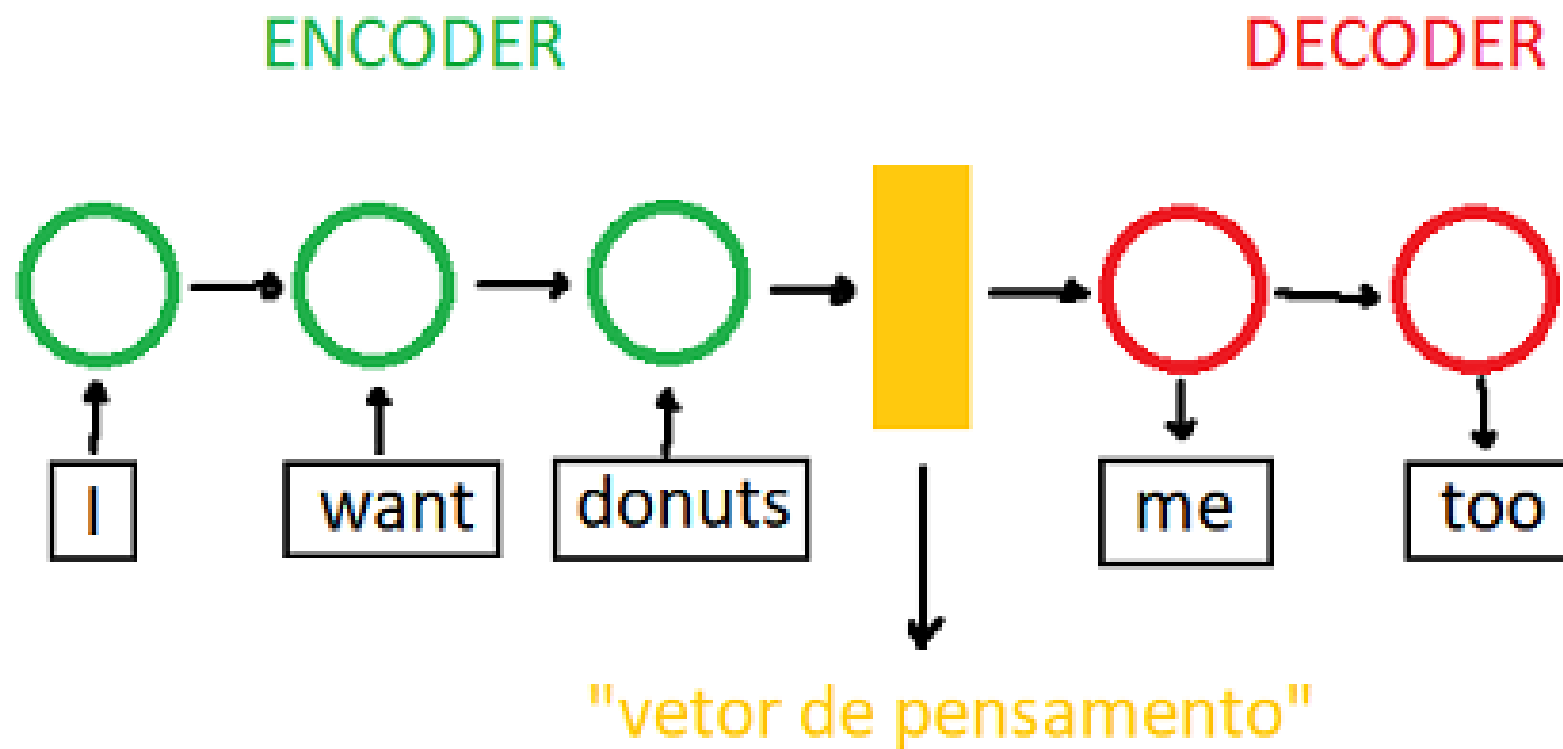
(hi, ahoy)

(hello homer, shut up, flanders)

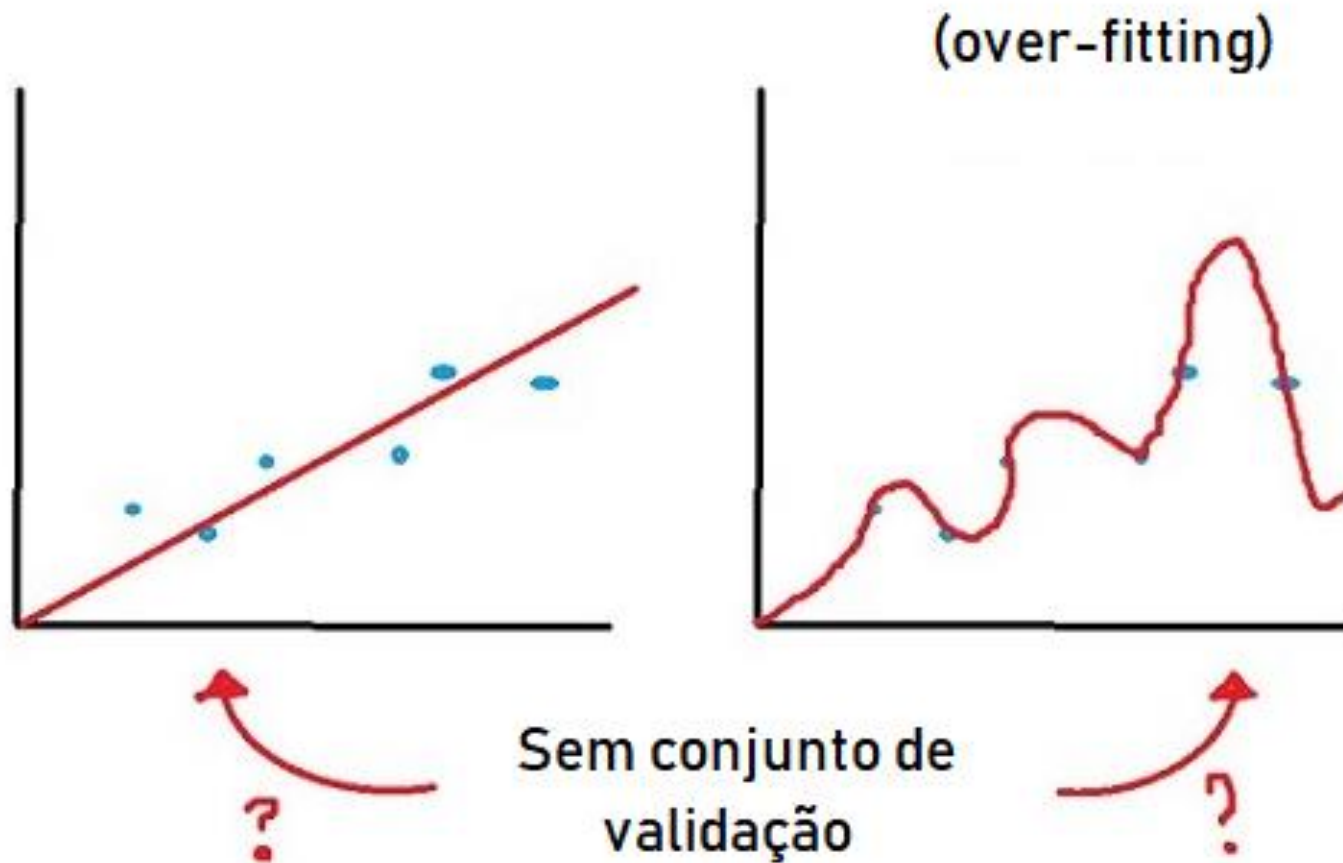
...



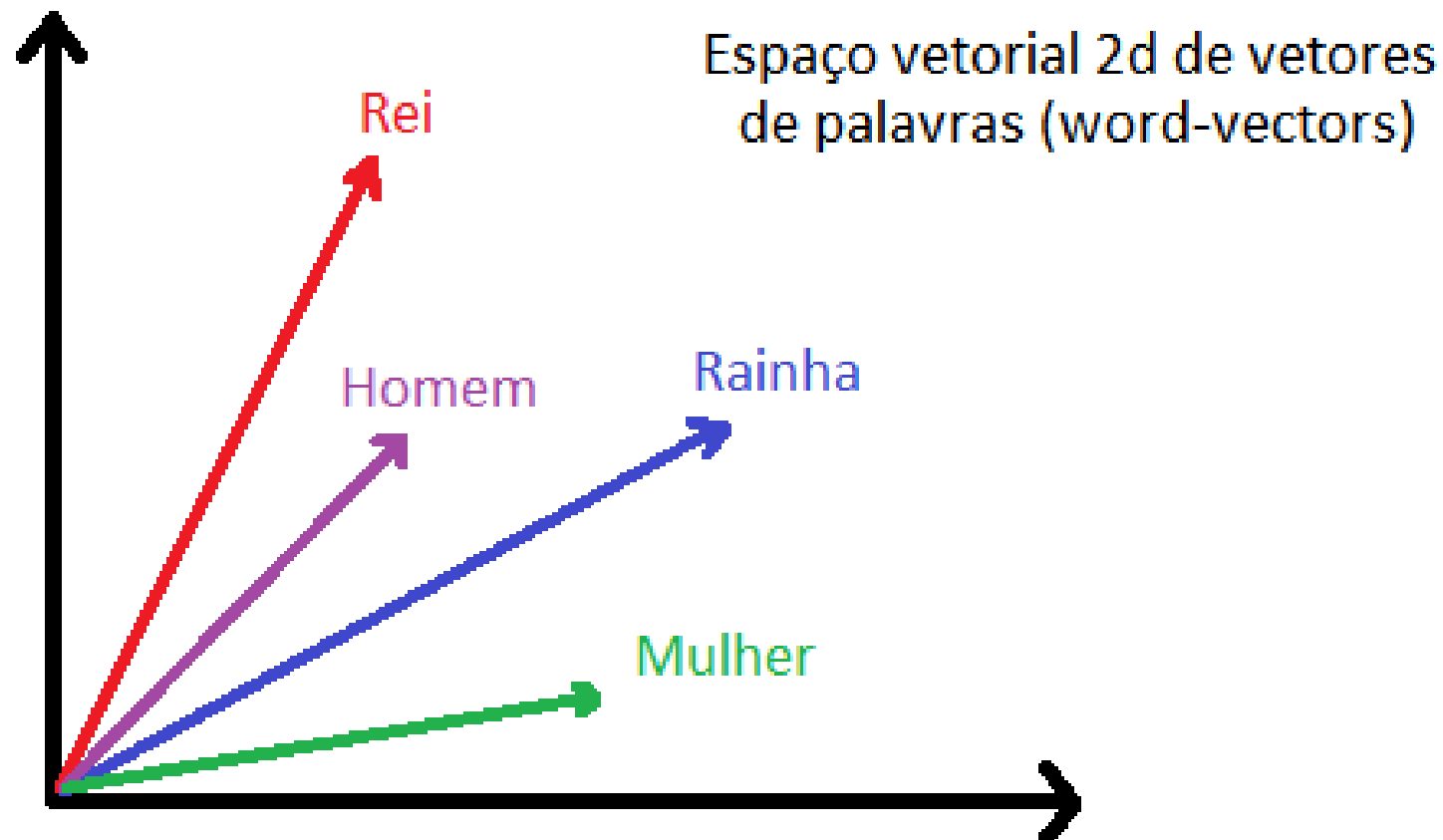
# Modelo Seq2Seq



# Modelo Seq2Seq



# Modelo Doc2Vec





# Modelo Doc2Vec



```
# vetor com palavras mais parecidas  
print(doc2vec_model.wv.most_similar(['good'])[0:2])
```



```
[('well,', 0.5040192604064941),  
 ('nice', 0.4658212661743164)]
```

# Modelo Doc2Vec

"hello homer" (doc)

  
[ ] (vec) mais parecido 

...

hi	ahoy
hello	shut up, flanders

...

# Experimentação

(doc2vec)

Me: What is your name?

chatbot: simpson.

Me: My cat is beautiful

chatbot: well, it's a cat -- I'm not sure it's the cat.

Me: The teacher is tall

chatbot: the moody blues!

Me: I am gonna die

chatbot: hey, that's great, now let's get to work! now, if "the flintstones has taught us anything, it's that pelicans can be used to mix cement.

# Experimentação

(seq2seq)

Me: whats your name?

chatbot: all the last guy's goin' housed.

•••

Me: what is your name?

chatbot: homer simpson.

Me: BOA

chatbot: exactly. up to hell!

# Experimentação

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## (doc2vec)

Me: what's your favourite sport?

chatbot: when a man and a woman love each other very much, they--

## (seq2seq)

Me: is physics fun?

chatbot: uh, now death are complaining to me, and you stole the rest of my life.

Me: uh no

chatbot: all right then

# Conclusão





Obrigado!

Não deixe de ler  
nosso 'artigo'!

[bit.ly/homer-chatbot](https://bit.ly/homer-chatbot)