



**INSTITUTO FEDERAL**  
Ceará  
Campus Fortaleza



# Processamento de Linguagem Natural

Me. Francisco Hércules dos Santos Silva

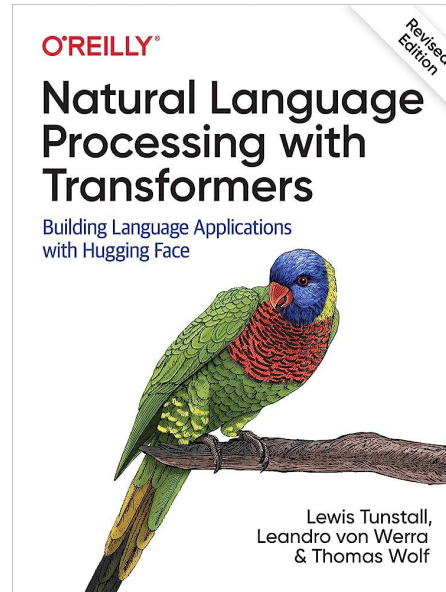
[herculesilva@lapisco.ifce.edu.br](mailto:herculessilva@lapisco.ifce.edu.br)

# SUMÁRIO

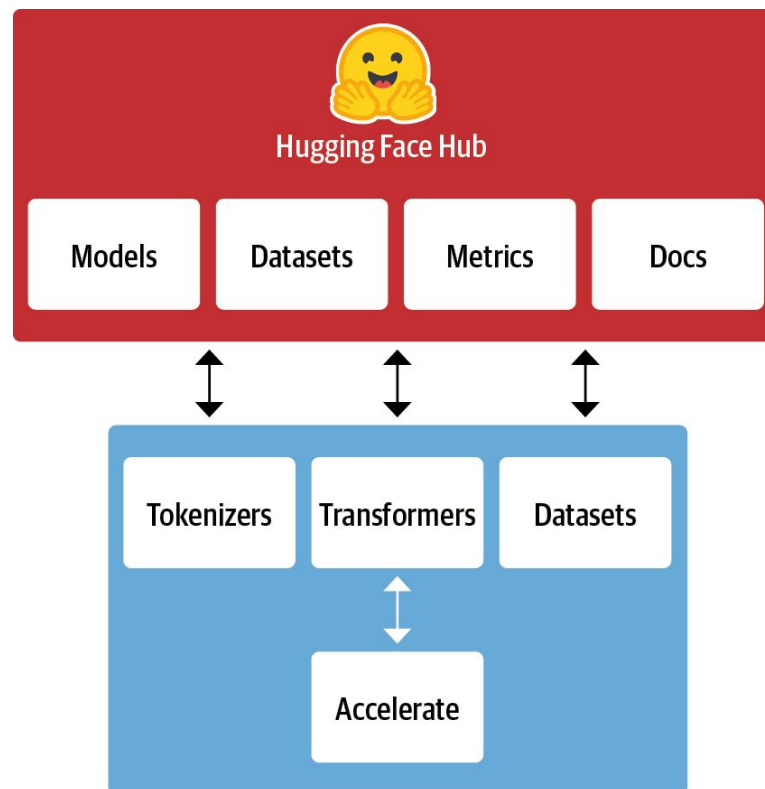
- ⇒ Hugging Face
- ⇒ Transformers
  - Encoder/Decoder
- ⇒ Sentiment Analysis
- ⇒ Question Answering
- ⇒ Summarization
- ⇒ Translation
- ⇒ Text Generation
- ⇒ Evolução
- ⇒ Referências

## Bibliografia

- ⇒ TUNSTALL, Lewis; VON WERRA, Leandro; WOLF, Thomas. Natural language processing with transformers. " O'Reilly Media, Inc.", 2022.

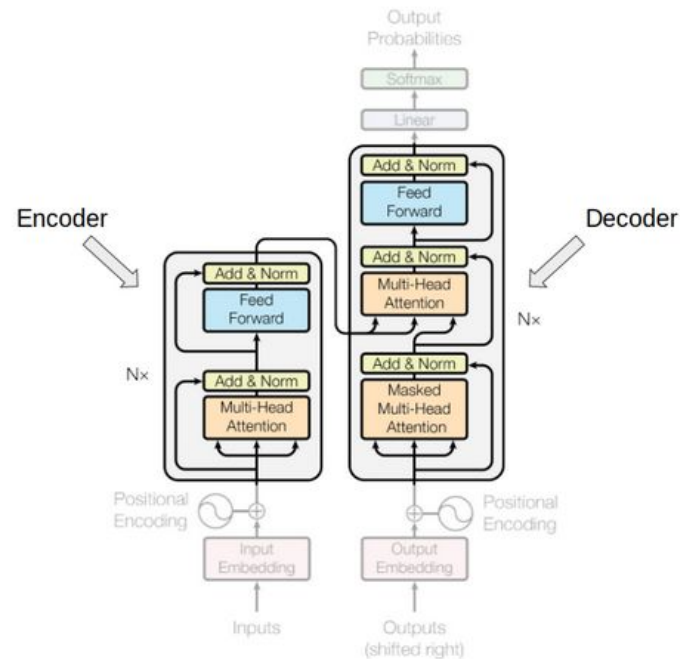


# Hugging Face



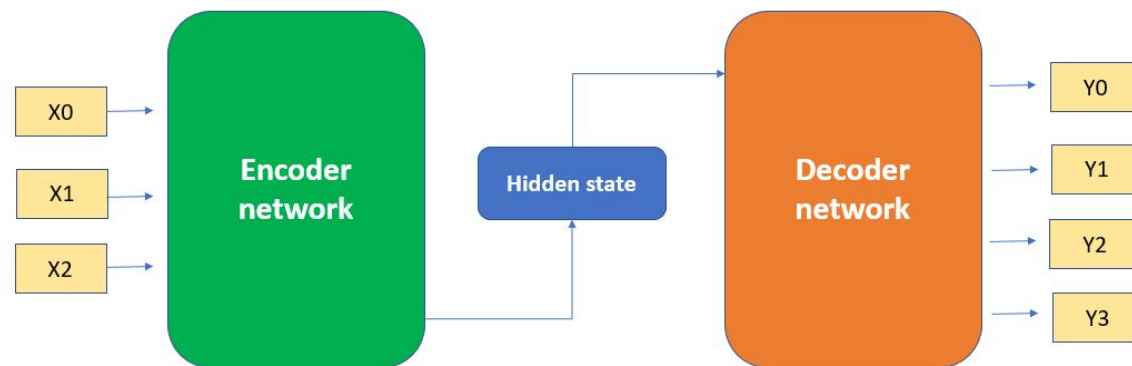
[Fonte](#)

# Transformers



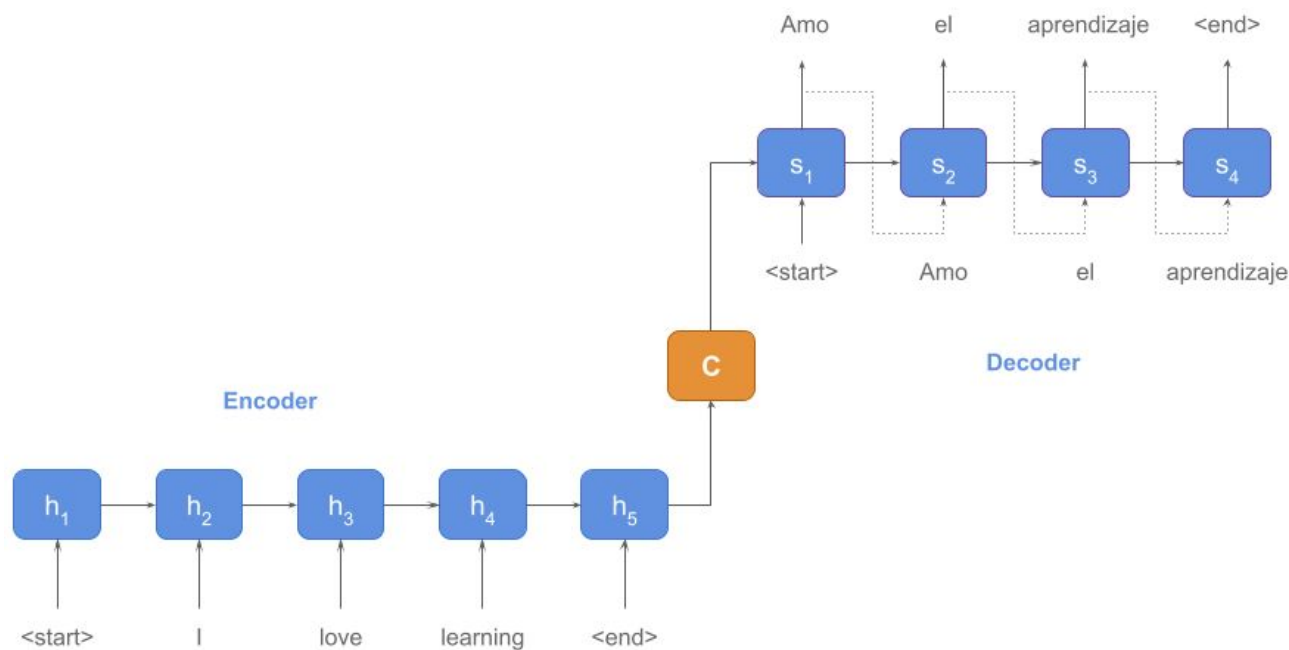
[Fonte](#)

# Encoder/Decoder



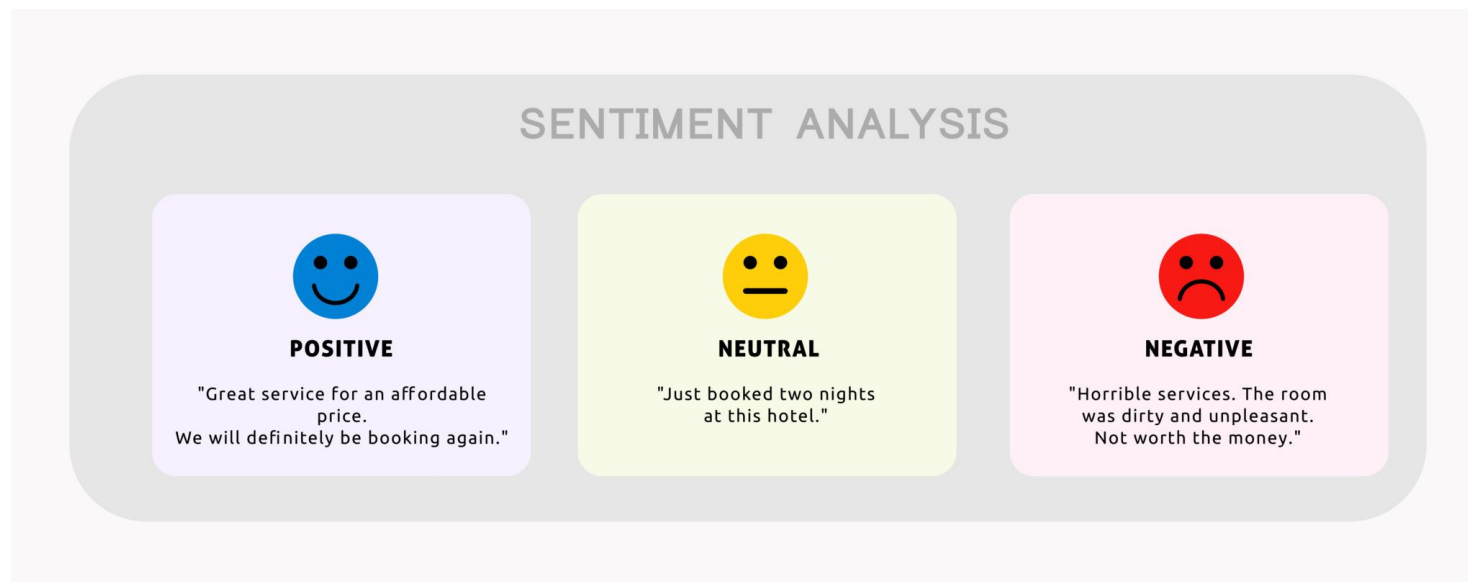
[Fonte](#)

# Encoder/Decoder



[Fonte](#)

# Sentiment Analysis



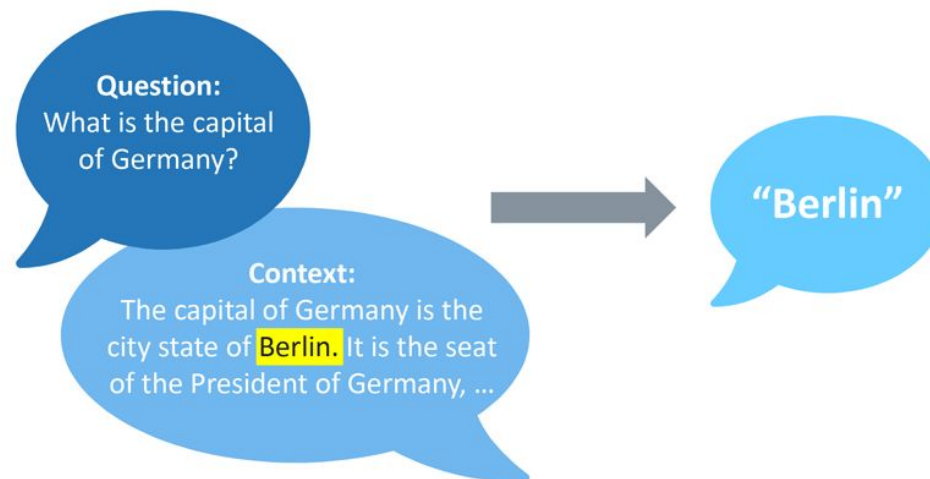
[Fonte](#)



# Sentiment Analysis



## Question Answering

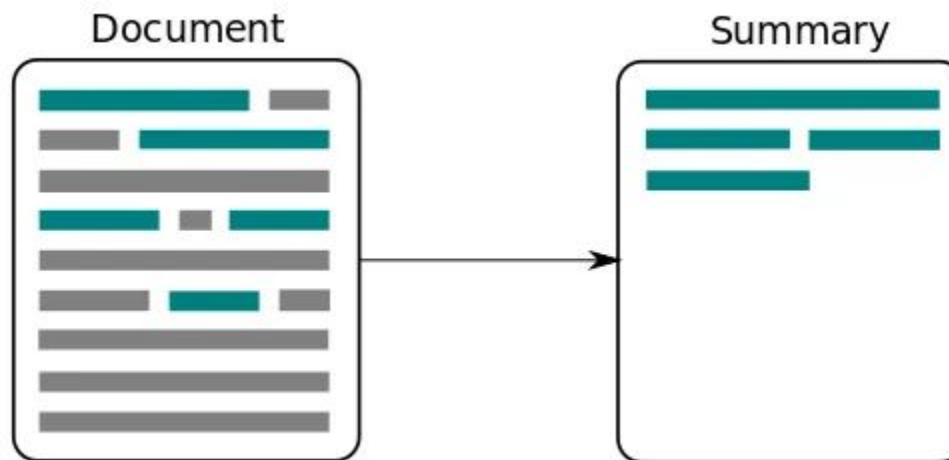


[Fonte](#)

## Question Answering



# Summarization

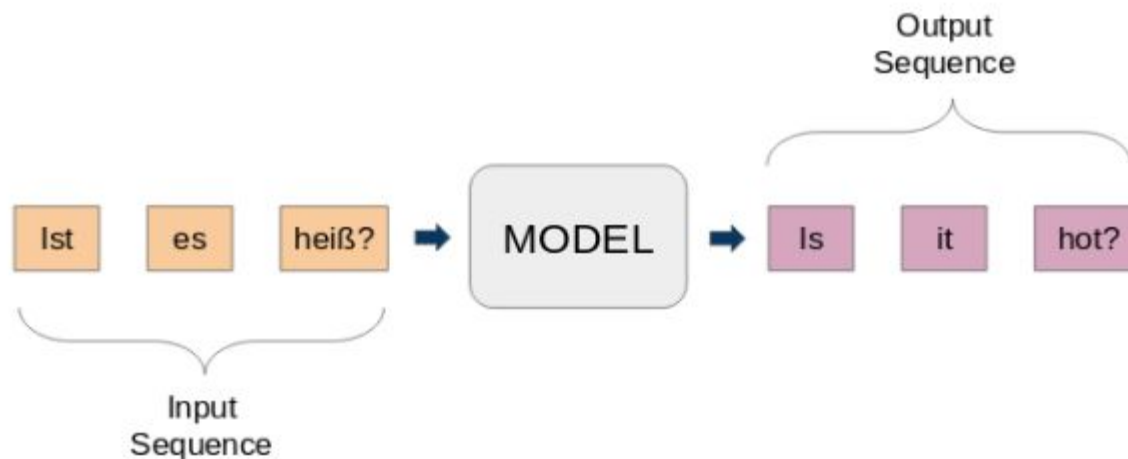


[Fonte](#)

# Summarization



# Translation

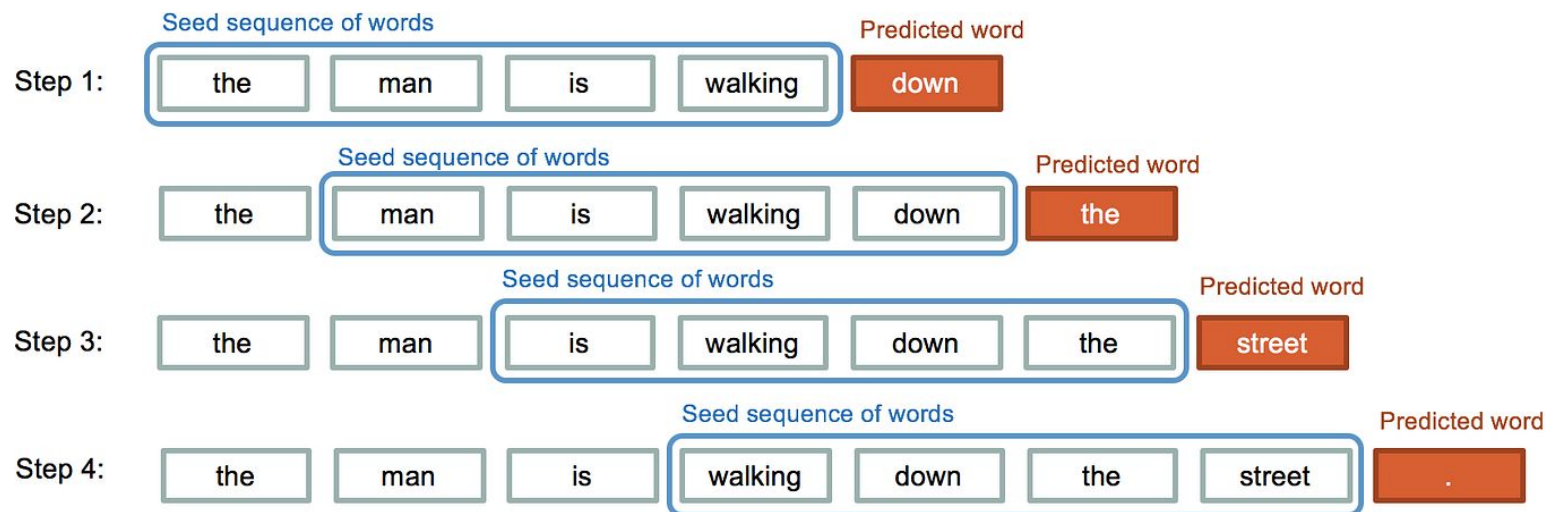


[Fonte](#)

# Translation



# Text Generation



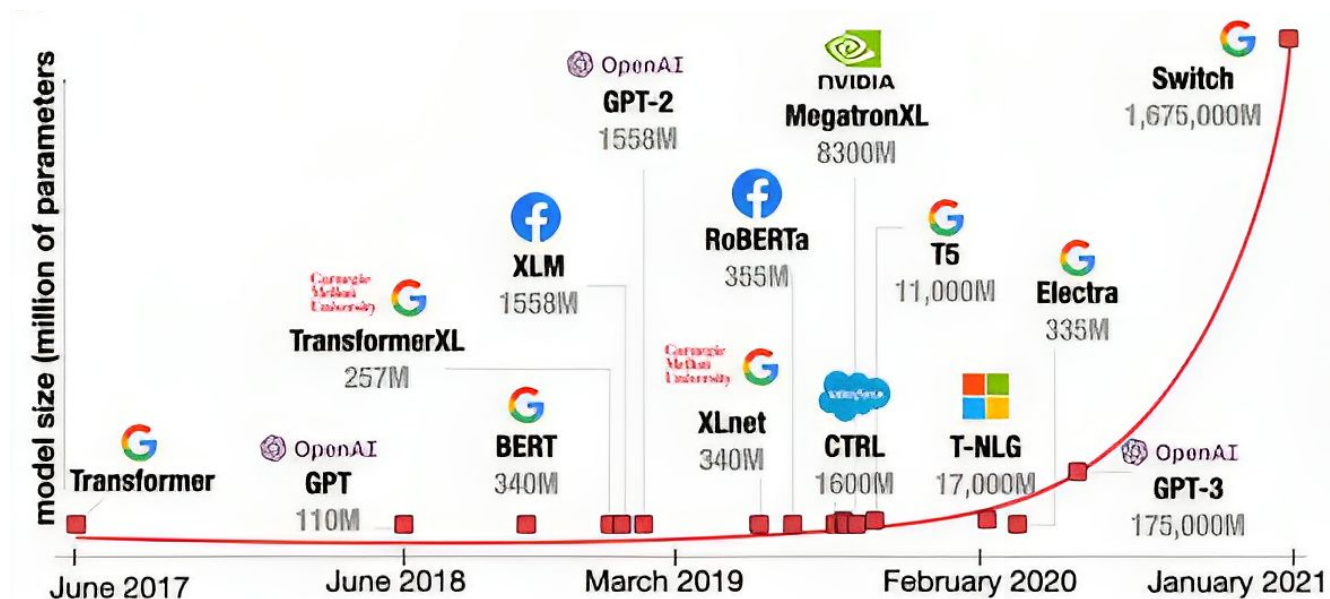
[Fonte](#)



# Text Generation



# Evolução



[Fonte](#)

## Links Úteis

- ⇒ <https://learn.deeplearning.ai/>
- ⇒ <https://github.com/nlp-with-transformers/notebooks>

## Referências

TUNSTALL, Lewis; VON WERRA, Leandro; WOLF, Thomas. Natural language processing with transformers. " O'Reilly Media, Inc.", 2022.

# Obrigado pela atenção!

## Dúvidas?

Francisco Hércules dos Santos Silva

[hercullessilva@lapisco.ifce.edu.br](mailto:hercullessilva@lapisco.ifce.edu.br)

