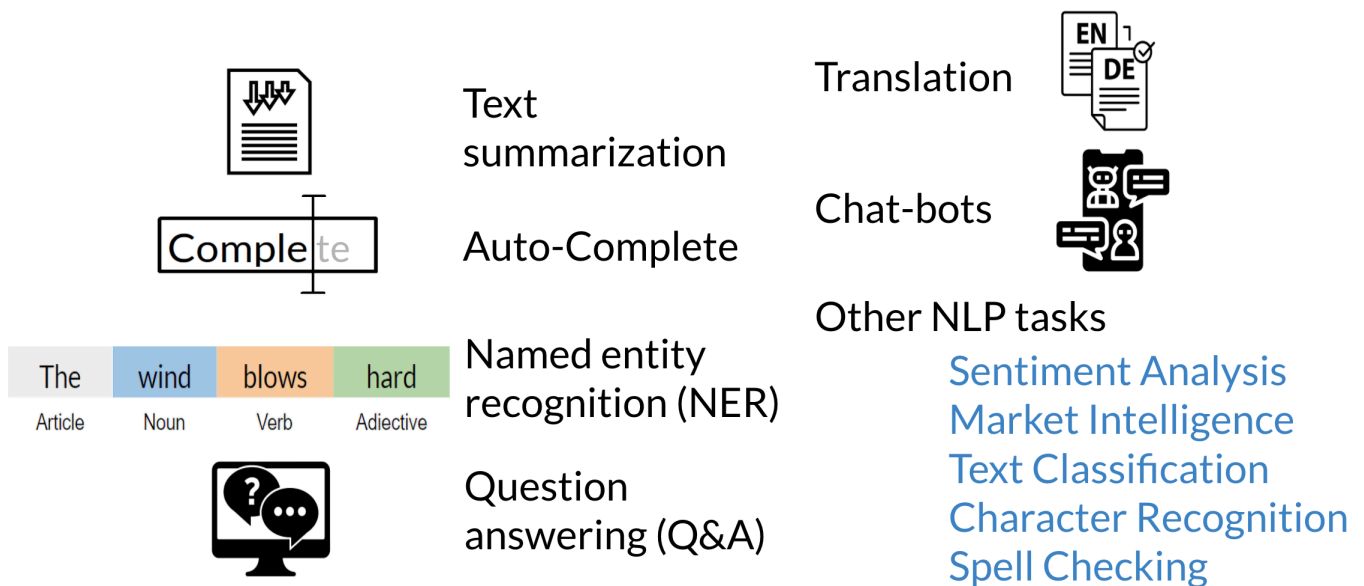# Transformer Applications

Here is a brief summary of all the different applications you can build using transformers:

Text summarization

Auto-Complete

Named entity recognition (NER)

Question answering (Q&A)

Translation

Chat-bots

Other NLP tasks

Sentiment Analysis
Market Intelligence
Text Classification
Character Recognition
Spell Checking

It would be really cool if you can actually just go ahead and play trivia against a transformer: https://t5-trivia.glitch.me/ ⬚ .

Another exciting area of research is the use of transfer learning with transformers. For example, to train a model that will translate English to German, you can just prepend the text "translate English to German" to the inputs that you are about to feed the model. You can then keep that same model to detect sentiment by prepending another tag. The following image summarizes the T5 model which uses this concept:

Translate English into German: "I am happy"

Cola sentence: "He bought fruits and."

Cola sentence: "He bought fruits and vegetables."

Question: Which volcano in Tanzania is the highest mountain in Africa?

Translation

Classification

T5

Q&A

"Ich bin glücklich"

Unacceptable

Acceptable

Answer: Mount Kilimanjaro