Natural Language Processing

1. Introduction:

* There are many use cases available for nlp reference such as Gmail writing where we get auto completion, spam filters, language translation, customer service chatbot, voice assistance
* Google uses BERT model to answer your questions.
* NLP is a field in computer science and AI that gives machines an ability to understand human language better and to assist in language related tasks.
* Libraries which we will be using are python, spaCy, Gensim, NLTK, sklearn, tensorflow, pytorch, hugging face etc.
* Why nlp is booming now?

1. There are freely trained/pretrained models such as fasttext, Tensorflow hub, GTP3 are available.
2. With the help of transfer learning we can take the model which google has created for use. Tensorflow provides such models.
3. Cheap hardware & cloud resources.
4. Learning resources
5. Huge investment by Big Tech