**📖 Natural Language Processing**

EDA & Preprocessing

1. [Pure EDA for NLP](https://neptune.ai/blog/exploratory-data-analysis-natural-language-processing-tools)
2. [Basic NLP with NLTK](https://www.kaggle.com/code/alvations/basic-nlp-with-nltk/notebook)
3. [Data Preprocessing and EDA for Natural Language Processing](https://medium.com/geekculture/data-preprocessing-and-eda-for-natural-language-processing-56e45c1df36d)
4. Regular Expression with python:
   1. Video: [Click here](https://www.youtube.com/watch?v=sHw5hLYFaIw)
   2. Cheat Sheet: [Click here](https://cheatography.com/davechild/cheat-sheets/regular-expressions/)
   3. Quick English to Regex online: [Click here](https://www.autoregex.xyz/) (10 requests/month)

Feature Engineering

* [Beginner’s Guide to Data Cleaning and Feature Extraction in NLP](https://towardsdatascience.com/beginners-guide-for-data-cleaning-and-feature-extraction-in-nlp-756f311d8083)

Corpus Preparation

1. [Word Embeddings by TDS](https://towardsdatascience.com/word-embeddings-in-2020-review-with-code-examples-11eb39a1ee6d)
2. [Word Embeddings by Turing](https://www.turing.com/kb/guide-on-word-embeddings-in-nlp)
3. [Word Vectors by DAIR](https://dair-ai.notion.site/Lecture-1-Introduction-and-Word-Vectors-afdc392dd83e44faab91f7c1b8f563a0)
4. [The Illustrated Word2vec](https://jalammar.github.io/illustrated-word2vec/)
5. [Word2Vec Visualization PLAYGROUND](https://ronxin.github.io/wevi/)

Modeling

1. [Building Language Models in NLP](https://www.analyticsvidhya.com/blog/2022/01/building-language-models-in-nlp/#:~:text=A%20language%20model%20in%20NLP,appear%20next%20in%20the%20sentence.)
2. [Illustrated Guide to LSTM’s and GRU’s](https://towardsdatascience.com/illustrated-guide-to-lstms-and-gru-s-a-step-by-step-explanation-44e9eb85bf21)
3. [Visualizing memorization in RNNs](https://distill.pub/2019/memorization-in-rnns/) interactive, intuitive
4. [Understanding LSTM Networks](https://colah.github.io/posts/2015-08-Understanding-LSTMs/) by colah
5. [Understanding Seq2Seq NN with Attention](https://jalammar.github.io/visualizing-neural-machine-translation-mechanics-of-seq2seq-models-with-attention/)
6. [NN Playground](https://playground.tensorflow.org/)
7. Transformer
   1. [The Illustrated Transformer](https://jalammar.github.io/illustrated-transformer/) by jay alammar
   2. [What is a Transformer?](https://medium.com/inside-machine-learning/what-is-a-transformer-d07dd1fbec04)
   3. Interactive breakdown: [Attention is all you need](https://krypticmouse.hashnode.dev/attention-is-all-you-need)

Parameter Tuning

[Keras Examples in NLP](https://keras.io/examples/nlp/)

Explainable AI

[SHAP example code](https://shap.readthedocs.io/en/latest/text_examples.html)