**One-stop resource:**

**Dan Jurafsky**

Speech and Language Processing (3rd ed. draft) <https://web.stanford.edu/~jurafsky/slp3/>

<https://web.stanford.edu/~jurafsky/>

<https://web.stanford.edu/class/cs384/>

<https://www.youtube.com/channel/UC_48v322owNVtORXuMeRmpA>

<http://web.stanford.edu/class/cs124/>

**Kaggle mini-courses**

[**https://www.kaggle.com/learn**](https://www.kaggle.com/learn)(easy, fun, learn a bit; good to play around with for overall understanding)

NLP https://www.kaggle.com/learn/natural-language-processing

**Roadmap:**

Diagram to show all possible concepts: <https://github.com/DataScienceResearchPeru/nlp-roadmap>

<https://www-techrepublic-com.cdn.ampproject.org/v/s/www.techrepublic.com/google-amp/article/natural-language-processing-a-cheat-sheet/?usqp=mq331AQFKAGwASA%3D&amp_js_v=0.1#referrer=https%3A%2F%2Fwww.google.com&amp_tf=From%20%251%24s&ampshare=https%3A%2F%2Fwww.techrepublic.com%2Farticle%2Fnatural-language-processing-a-cheat-sheet%2F>

<https://towardsdatascience.com/understanding-nlp-how-ai-understands-our-languages-77601002cffc> History NLP

<https://www.kdnuggets.com/2019/10/10-free-top-notch-courses-natural-language-processing.html> List of courses

**Starter kit: (**if new to mathematical concepts behind it too)

https://www.analyticsvidhya.com/blog/2020/01/learning-path-nlp-2020/

[https://github.com/rajesh-bhat/hackermath Module 1 & 2](https://github.com/rajesh-bhat/hackermath%20Module%201%20&%202)

<https://www.youtube.com/playlist?list=PLZHQObOWTQDPD3MizzM2xVFitgF8hE_ab> Linear Algebra

<https://anandology.com/python-practice-book/> Programming

<https://www.tensorflow.org/resources/learn-ml> Essential part: ‘Math Concepts’

<https://github.com/pierpaolo28/Artificial-Intelligence-Projects> Algorithm projects

**Beginner:**

NLP course by CMU <http://demo.clab.cs.cmu.edu/NLP/>

<https://www.fast.ai/2019/07/08/fastai-nlp/> (if lil coding and math knowledge)

<http://www.datasciencecourse.org/lectures/> Data Science practice

<https://medium.com/analytics-vidhya/natural-language-processing-from-basics-to-using-rnn-and-lstm-ef6779e4ae66> a detailed introduction to all the concepts prevalent in the world of Natural Language Processing

**Medium level:**

<https://www.youtube.com/playlist?list=PL8P_Z6C4GcuWfAq8Pt6PBYlck4OprHXsw>

<https://machinelearningmastery.com/start-here/>

**Advanced**

***Full courses***

Understanding AI <https://www.deeplearning.ai/program/ai-for-everyone/>

https://www.deeplearning.ai/program/natural-language-processing-specialization/

DL-NLP for <https://github.com/oxford-cs-deepnlp-2017/lectures>

DL-NLP course by Stanford <http://web.stanford.edu/class/cs224n/>

***Application-based repositories***

<https://github.com/microsoft/nlp-recipes/tree/master/examples>

<https://atcold.github.io/pytorch-Deep-Learning/en/week12/12-1/>

**Blogs**

<https://ruder.io/> by Sebastian Ruder

<https://ryanong.co.uk/natural-language-processing-365/nlp-papers-summary/> Mappin every thing

<https://nlpprogress.com/> Maps all resources. Basic understanding required to map through tasks’ links

Advanced Codes in One place (Name: Super Duper NLP Repo) <https://notebooks.quantumstat.com/>

<https://chatbotslife.com/tagged/nlp> Application and Research focused. Good to map top works year wise

<https://www.youtube.com/c/3blue1brown> All things math and cs

**Books:**

<https://thenextweb.com/news/practical-natural-language-processing-a-must-read-for-anyone-who-wants-to-become-seriously-involved-in-nlp-syndication>

**Articles:**

<https://www.microsoft.com/en-us/research/blog/five-ways-your-academic-research-skills-transfer-to-industry/?OCID=msr_blog_5ways_ig>

Sentiment analysis <https://towardsdatascience.com/real-time-sentiment-analysis-on-social-media-with-open-source-tools-f864ca239afe>

Indian NLP libraries <https://www.analyticsvidhya.com/blog/2020/01/3-important-nlp-libraries-indian-languages-python/>

Archives Google AI blog <https://ai.googleblog.com/search/label/Natural%20Language%20Processing>

<https://www.depends-on-the-definition.com/how-to-approach-nlp/#summary> nice blog

<https://www.portent.com/blog/content/essay-natural-language-processing-impact-writers-content-digital-marketing.htm>

coding practices <https://neptune.ai/blog/how-to-structure-and-manage-nlp-projects-templates?utm_source=reddit&utm_medium=post&utm_campaign=blog-how-to-structure-and-manage-nlp-projects-templates&utm_content=languagetechnology>