Veri Bilimi Bootcamp'i
6. Hafta

🌐 www.CarbonConsulting.com
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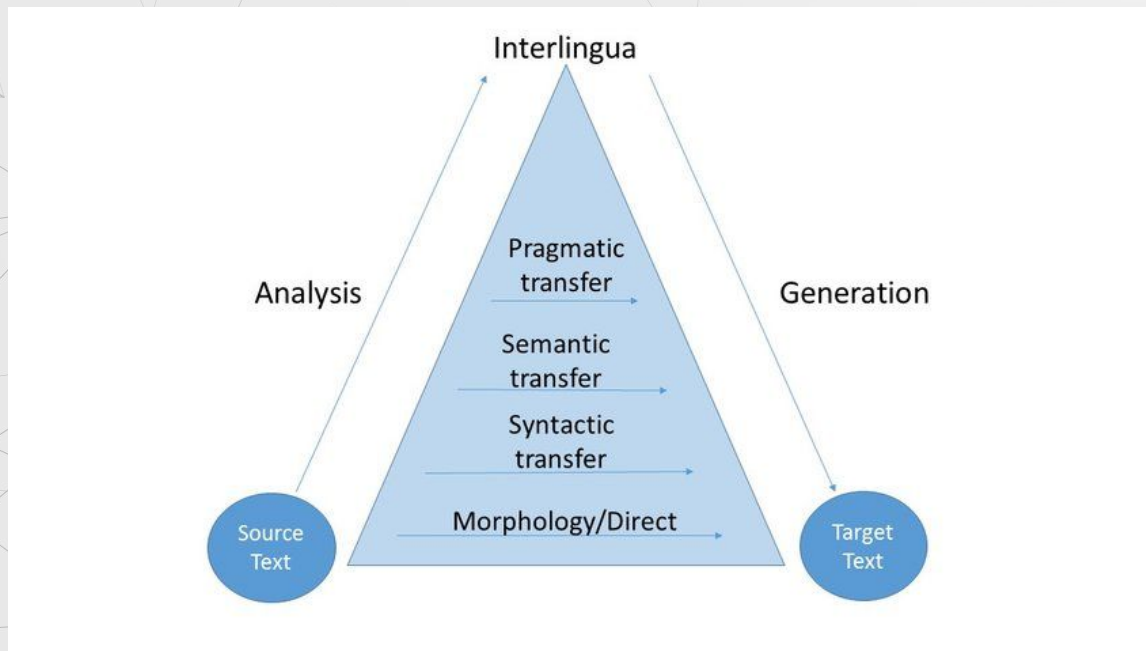@ Meysam Asgari-Chenaghlu & Nusret Özateş

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01

NLP nedir?

NLP Nedir?

- NLP – Natural Language Processing – Doğal Dil İşleme nedir?

NLP Nedir?

NLP Nedir?

- Machine Translation
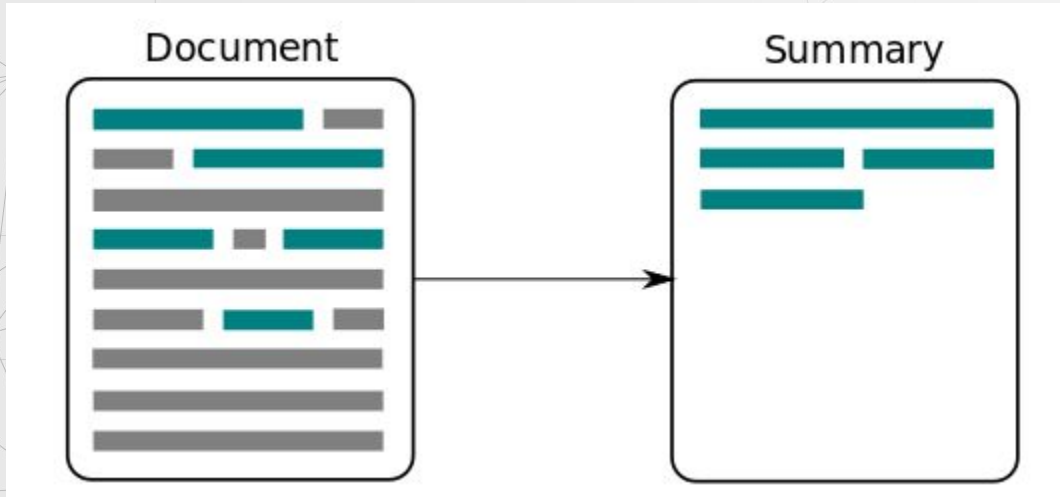
https://huggingface.co/Helsinki-NLP/opus-mt-tr-en
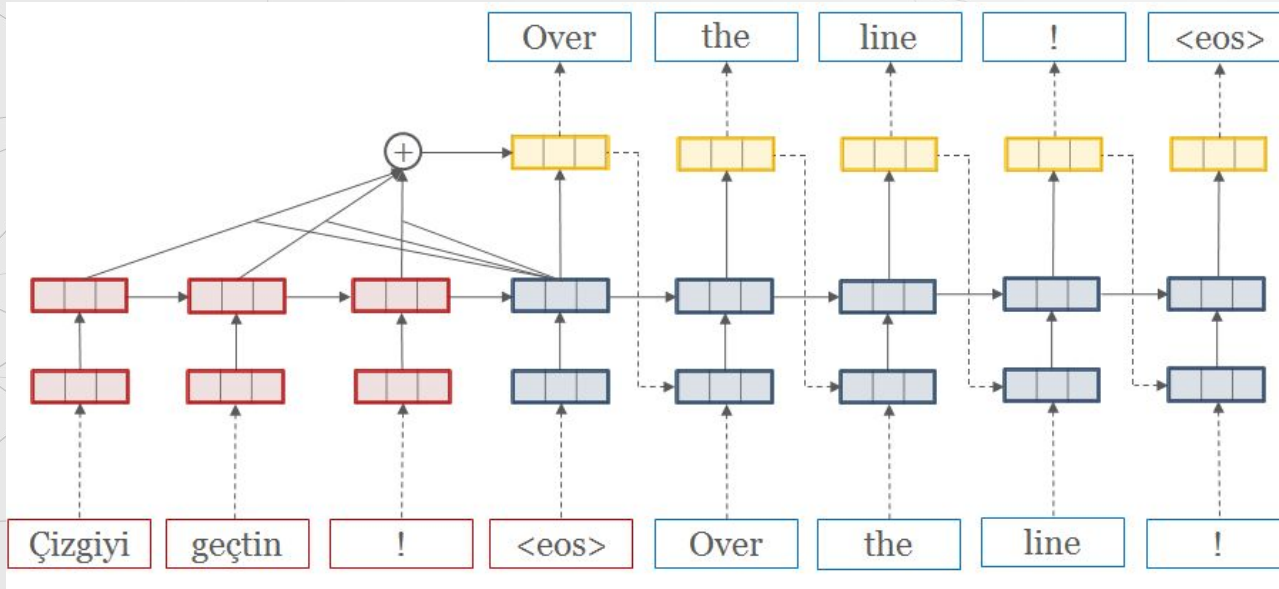
NLP Nedir?

- Summarization

https://huggingface.co/ozcangundes/mt5-small-turkish-summarization

NLP Nedir?

- Keyword Extraction
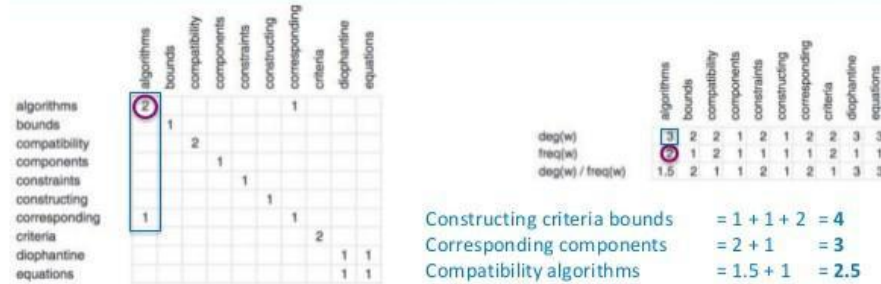
NLP Nedir?

- Part of Speech Tagging

https://textanalysisonline.com/spacy-pos-tagging

NLP Nedir?

- Information Retrieval
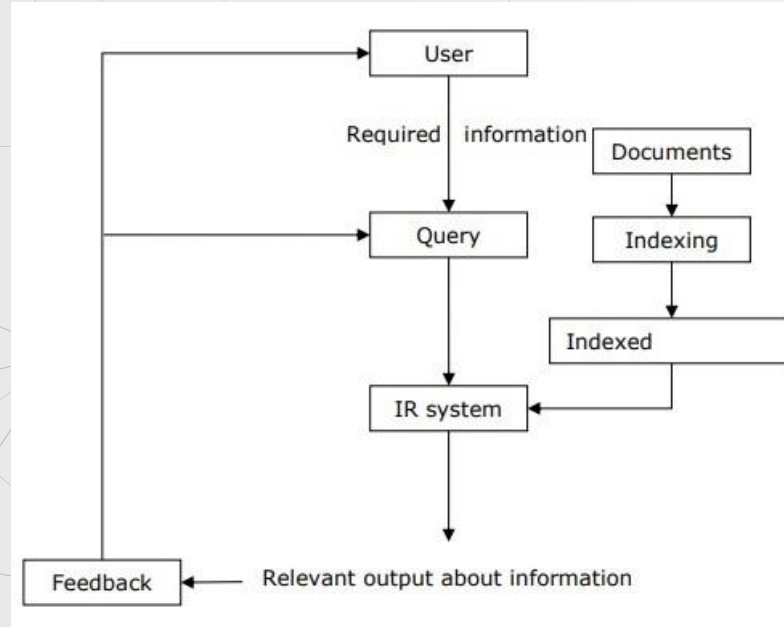
NLP Nedir?

- Sentiment Analysis

https://demo.allennlp.org/sentiment-analysis/glove-sentiment-analysis

https://huggingface.co/savasy/bert-base-turkish-sentiment-cased

EMOTION & FEELING WHEEL
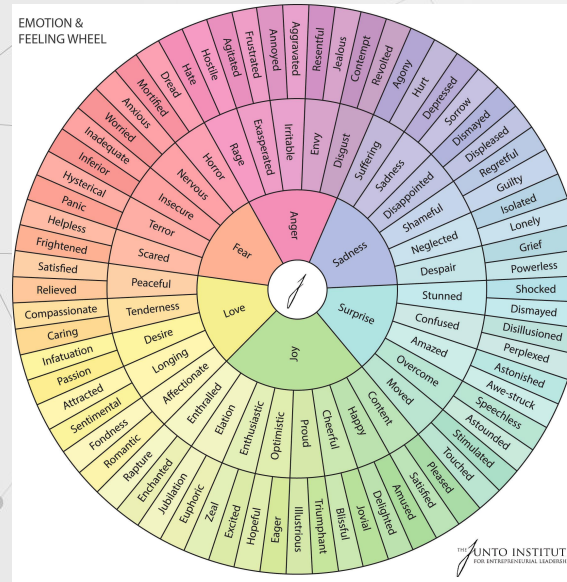
NLP Nedir?

- Question Answering

https://huggingface.co/ozcangundes/mt5-small-turkish-summarization

Passage Sentence

In meteorology, precipitation is any product of the condensation of atmospheric water vapor that falls under gravity.

Question

What causes precipitation to fall?

Answer Candidate

gravity

NLP Nedir?

- Named Entity Recognition

https://huggingface.co/savasy/bert-base-turkish-ner-cased

https://demo.allennlp.org/named-entity-recognition/named-entity-recognition

In fact, the Chinese `NORP` market has the three `CARDINAL` most influential names of the retail and tech space – Alibaba `GPE`, Baidu `ORG`, and Tencent `PERSON` (collectively touted as BAT `ORG`), and is betting big in the global AI `GPE` in retail industry space . The three `CARDINAL` giants which are claimed to have a cut-throat competition with the U.S. `GPE` (in terms of resources and capital) are positioning themselves to become the 'future AI `PERSON` platforms'. The trio is also expanding in other Asian `NORP` countries and investing heavily in the U.S. `GPE` based AI `GPE` startups to leverage the power of AI `GPE`. Backed by such powerful initiatives and presence of these conglomerates, the market in APAC AI is forecast to be the fastest-growing one `CARDINAL`, with an anticipated CAGR `PERSON` of 45% `PERCENT` over 2018 - 2024 `DATE`.

To further elaborate on the geographical trends, North America `LOC` has procured more than 50% `PERCENT` of the global share in 2017 `DATE` and has been leading the regional landscape of AI `GPE` in the retail market. The U.S. `GPE` has a significant credit in the regional trends with over 65% `PERCENT` of investments (including M&As, private equity, and venture capital) in artificial intelligence technology. Additionally, the region is a huge hub for startups in tandem with the presence of tech titans, such as Google `ORG`, IBM `ORG`, and Microsoft `ORG`.
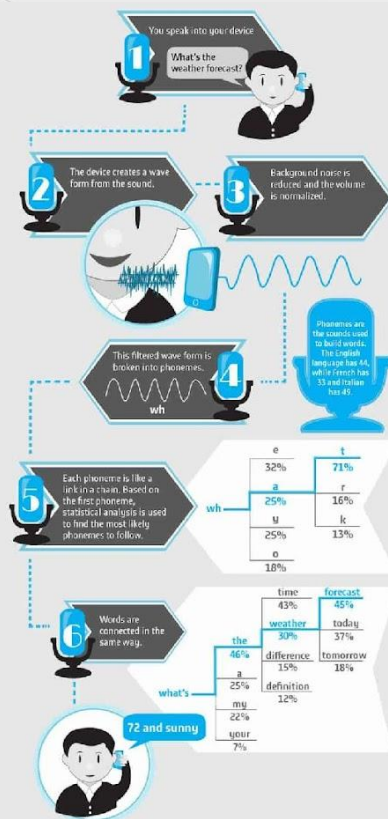
NLP Nedir?

- Named Entity Recognition

Words	IO Label	BIO Label	BIOES Label
Jane	I-PER	B-PER	B-PER
Villanueva	I-PER	I-PER	E-PER
of	O	O	O
United	I-ORG	B-ORG	B-ORG
Airlines	I-ORG	I-ORG	I-ORG
Holding	I-ORG	I-ORG	E-ORG
discussed	O	O	O
the	O	O	O
Chicago	I-LOC	B-LOC	S-LOC
route	O	O	O
.	O	O	O

Figure 8.7   NER as a sequence model, showing IO, BIO, and BIOES taggings.

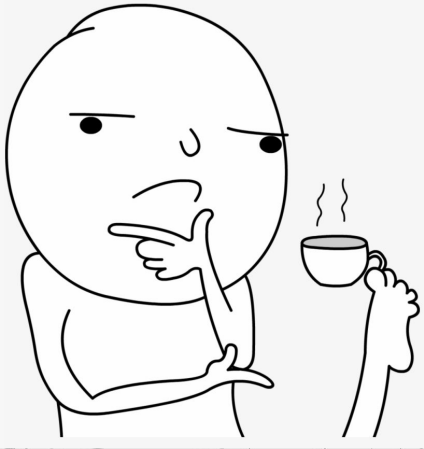# NLP Nedir?

- STT-TTS-ASR

NLP Nedir?

- Chatbot

- ELIZA
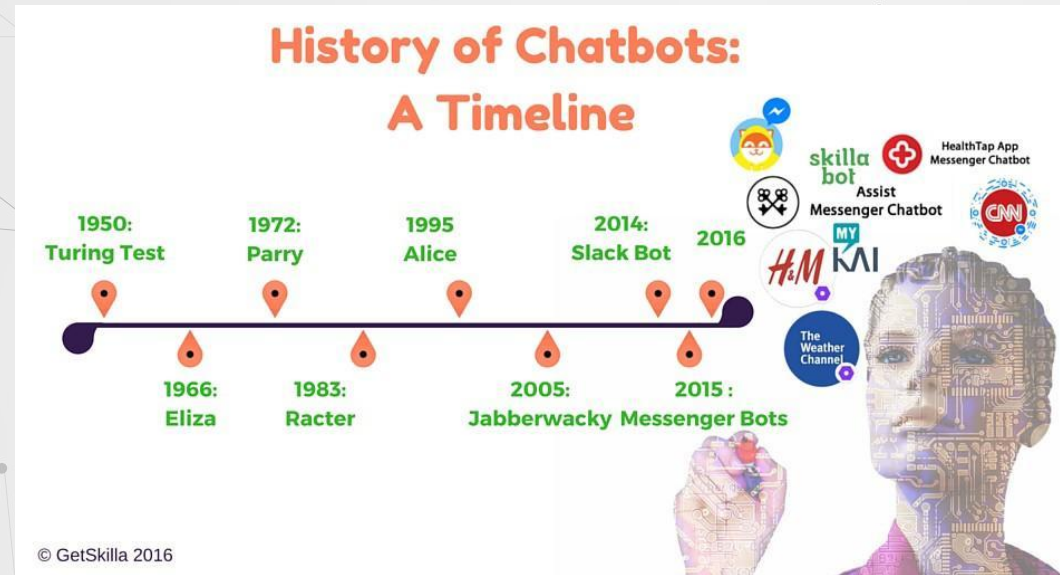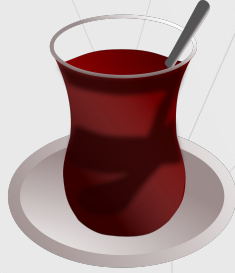
https://web.njit.edu/~ronkowit/eliza.html

History of Chatbots: A Timeline

1950: Turing Test

1966: Eliza

1972: Parry

1983: Racter

1995: Alice

2005: Jabberwacky

2014: Slack Bot

2015: Messenger Bots

2016

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Çay/Kahve Molası

15 Dakika

02

RNN, LSTM Nedir?

Öğle Arası

45 Dakika

Yarın görüşmek üzere

Kendinize iyi bakın ☺️

03

NLP Uygulaması

Birlikte #Kodluyoruz
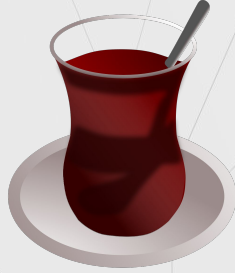
Çay/Kahve Molası

15 Dakika

Birlikte #Kodluyoruz

Öğle Arası

45 Dakika

Birlikte #Kodluyoruz

04

Soru & Cevap

Soru & Cevap

THANKS

Does anyone have any questions?

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